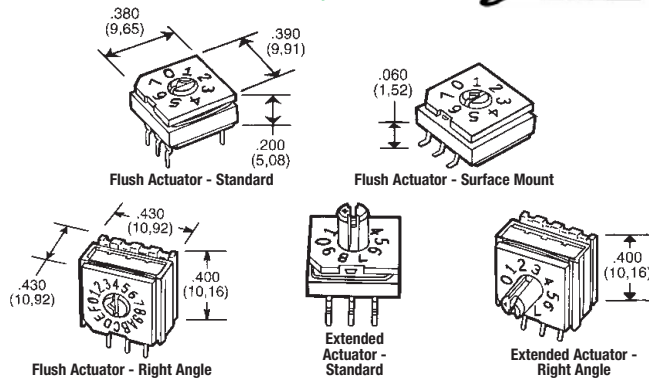


SWITCHES – DIP

94 SERIES CODED
ROTARY DIP SWITCHES

- Carrying Current: 100mA @ 50VDC
- Make and Break Rating: 30mA @ 30VDC for 10,000 Cycles of Operation (320,000 Switch Operations for a 16-Position Switch)
- Maximum Process Temperature: 250°C for 10 Seconds

94 series actuator sealed rotary DIP switches have binary (octal, BCD, hexadecimal) output with 8-, 10- or 16-positions. Complement codes are also available. Perpendicular or right-angle mounting with flush or choice of two shaft lengths. Perpendicular and surface mount types have terminals on 0.1" (2.54) by 0.3" (7.62) grid. Right-angle mount on a 0.1" (2.54) by 0.1" (2.54) grid. Terminals are copper alloy, gold over nickel.

FLUSH ACTUATOR TYPE

Mfg. Part No.	Code and Positions	Mounting	Stock No.	Price Each		
				1-49	50-99	100-499
● 94HAB08T	Octal/8	Standard Thru-Hole	45K1424	2.89	2.72	
● 94HAB08RAT	Octal/8	Right Angle Thru-Hole	30K6107	3.23	3.05	
● 94HAB08WT	Octal/8	Surface Mount	63K8753	2.89	2.72	
● 94HAB10T	BCD/10	Standard Thru-Hole	54K4788	2.89	2.72	
● 94HAB10RAT	BCD/10	Right Angle Thru-Hole	30K6109	3.23	3.05	
● 94HAB10WT	BCD/10	Surface Mount	28K6428	2.89	2.72	
● 94HAB16T	Hex/16	Standard Thru-Hole	57K1575	2.89	2.72	
● 94HAB16RAT	Hex/16	Right Angle Thru-Hole	45K1423	3.23	3.05	
● 94HAB16WT	Hex/16	Surface Mount	63K8757	2.89	2.72	

EXTENDED ACTUATOR 0.270" TYPE

Mfg. Part No.	Code	Mounting	Stock No.	1-49	50-99	100-499
● 94HBB08T	BCD/8	Mfg. Part No.	63K8764	2.89	2.72	
● 94HBB08RAT	BCD/8	Right Angle Thru-Hole	30K6117	3.23	3.05	
● 94HBB10T	BCD/10	Standard Thru-Hole	36K7909	2.89	2.72	
● 94HBB10RAT	BCD/10	Right Angle Thru-Hole	30K6119	3.23	3.05	
● 94HBB16T	Hex/16	Standard Thru-Hole	36K8331	2.89	2.72	
● 94HBB16RAT	Hex/16	Right Angle Thru-Hole	30K6120	3.23	3.05	

EXTENDED ACTUATOR 0.170" TYPE

Mfg. Part No.	Code	Mounting	Stock No.	1-49	50-99	100-499
● 94HCB08T	BCD/8	Standard Thru-Hole	39K4038	2.89	2.72	
● 94HCB08RAT	BCD/8	Right Angle Thru-Hole	30K6125	3.23	3.05	
● 94HCB10T	BCD/10	Standard Thru-Hole	30K6126	2.89	2.72	
● 94HCB10RAT	BCD/10	Right Angle Thru-Hole	63K8777	3.23	3.05	
● 94HCB16T	Hex/16	Standard Thru-Hole	28K6442	2.89	2.72	
● 94HCB16RAT	Hex/16	Right Angle Thru-Hole	63K8780	3.23	3.05	

94 SERIES HIGH TEMPERATURE KNOBS—FOR SHAFT EXTENSIONS

Mfg. Part No.	Knob Type	Knob Arrow Cover	Stock No.	Price Each		
				1-49	50-99	100-249
● 947706-001	1A	Gray/N/A	91F3839	1.04	0.98	0.95
● 947705-001	1B	Black/N/A	91F3841	0.65	0.62	0.60
● 947705-012	1B	Gray/N/A	91F3842	0.65	0.62	0.60

(5150)

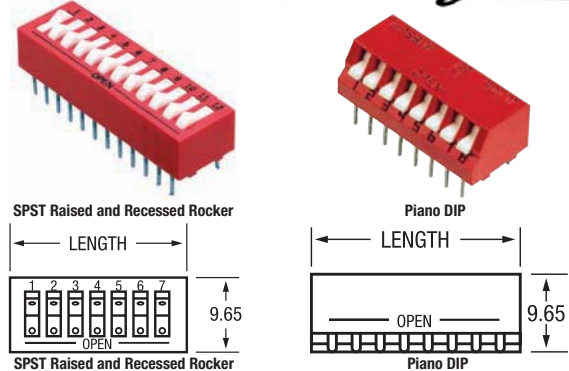


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(148630)

76 SERIES DIP SWITCHES



Feature high pressure spring-loaded ball contact system and standard epoxy-sealed bases. Each switch position makes and breaks 10,000 operations at 1mA, 5VDC or 50mA, 30VDC; 150mA, 30VDC. Contact resistance: 30 milliohms. Dielectric strength: 750VAC rms minimum. Terminals are copper alloy, tin-plated over nickel barrier.

SPST RAISED ROCKERS, UNSEALED

Mfg. Part No.	No. of Positions	Length	Stock No.	Price Each		
				1-49	50-99	100-499
● 76SB02T	2	0.28" (7.11)	29K9388	1.29	1.14	1.06
● 76SB03T	3	0.38" (9.65)	33K2687	1.32	1.17	1.08
● 76SB04T	4	0.48" (12.19)	33K2688	1.37	1.21	1.12
● 76SB05T	5	0.58" (14.73)	33K2690	1.43	1.26	1.17
● 76SB06T	6	0.68" (17.27)	33K2692	1.45	1.29	1.19
● 76SB07T	7	0.78" (19.81)	33K2694	1.48	1.31	1.21
● 76SB08T	8	0.88" (22.35)	33K2696	1.54	1.36	1.26
● 76SB09T	9	0.98" (24.89)	33K2698	1.56	1.38	1.28
● 76SB10T	10	1.08" (27.43)	33K2699	1.58	1.40	1.29
● 76SB12T	12	1.28" (32.51)	33K2700	1.68	1.49	1.37

SPST RAISED ROCKERS, SEALED

Mfg. Part No.	No. of Positions	Length	Stock No.	1-49	50-99	100-499
● 76SB02ST	2	0.28" (7.11)	33K2685	1.37	1.21	1.12
● 76SB03ST	3	0.38" (9.65)	33K2686	1.43	1.26	1.17
● 76SB04ST	4	0.48" (12.19)	60K0326	1.45	1.29	1.19
● 76SB05ST	5	0.58" (14.73)	33K2689	1.51	1.34	1.24
● 76SB06ST	6	0.68" (17.27)	55F5004	1.54	1.36	1.26
● 76SB07ST	7	0.78" (19.81)	33K2693	1.56	1.38	1.28
● 76SB08ST	8	0.88" (22.35)	33K2695	1.61	1.42	1.32
● 76SB09ST	9	0.98" (24.89)	33K2697	1.65	1.46	1.35
● 76SB10ST	10	1.08" (27.43)	30K7351	1.68	1.49	1.37

SPDT RAISED ROCKERS, UNSEALED

Mfg. Part No.	No. of Positions	Length	Stock No.	1-49	50-99	100-499
● 76SC02T	2	0.38" (9.65)	33K2702	3.65	3.23	2.98
● 76SC03T	3	0.58" (14.73)	33K2704	3.89	3.44	3.18
● 76SC04T	4	0.78" (19.81)	33K2706	4.14	3.67	3.39

SPST RAISED ROCKERS, SEALED

Mfg. Part No.	No. of Positions	Length	Stock No.	1-49	50-99	100-499
● 76SC02ST	2	0.38" (9.65)	33K2701	3.84	3.40	3.14
● 76SC03ST	3	0.58" (14.73)	33K2703	4.09	3.62	3.34
● 76SC04ST	4	0.78" (19.81)	33K2705	4.33	3.84	3.54

SPST RECESSED ROCKERS, UNSEALED

Mfg. Part No.	No. of Positions	Length	Stock No.	1-49	50-99	100-499
● 76RSB02T	2	0.28" (7.11)	33K2669	1.29	1.14	1.06
● 76RSB03T	3	0.38" (9.65)	33K2671	1.32	1.17	1.08
● 76RSB05T	5	0.58" (14.73)	33K2674	1.43	1.26	1.17
● 76RSB06T	6	0.68" (17.27)	33K2675	1.45	1.29	1.19
● 76RSB07T	7	0.78" (19.81)	33K2677	1.48	1.31	1.21
● 76RSB08T	8	0.88" (22.35)	33K2679	1.54	1.36	1.26
● 76RSB09T	9	0.98" (24.89)	33K2681	1.56	1.38	1.28
● 76RSB10T	10	1.08" (27.43)	33K2682	1.58	1.40	1.29
● 76RSB12T	12	1.28" (32.51)	33K2684	1.68	1.49	1.37

SPST RECESSED ROCKERS, SEALED

Mfg. Part No.	No. of Positions	Length	Stock No.	1-49	50-99	100-499
● 76RSB02ST	2	0.28" (7.11)	30K6083	1.37	1.21	1.12
● 76RSB03ST	3	0.38" (9.65)	33K2670	1.43	1.26	1.17
● 76RSB04ST	4	0.48" (12.19)	33K2672	1.45	1.29	1.19
● 76RSB05ST	5	0.58" (14.73)	33K2673	1.51	1.34	1.24
● 76RSB06ST	6	0.68" (17.27)	30K6084	1.54	1.36	1.26
● 76RSB07ST	7	0.78" (19.81)	33K2676	1.56	1.38	1.28
● 76RSB08ST	8	0.88" (22.35)	33K2678	1.61	1.42	1.32
● 76RSB09ST	9	0.98" (24.89)	33K2680	1.65	1.46	1.35
● 76RSB10ST	10	1.08" (27.43)	30K6085	1.68	1.49	1.37
● 76RSB12ST	12	1.28" (32.51)	33K2683	1.76	1.56	1.44

SPST PIANO-DIP, UNSEALED

Mfg. Part No.	No. of Positions	Length	Stock No.	1-49	50-99	100-499
● 76PSB02T	2	0.28" (7.11)	30K6080	1.52	1.35	1.24
● 76PSB03T	3	0.38" (9.65)	33K2654	1.56	1.38	1.28

➔ CONTINUED ➔

SWITCHES – DIP

76 SERIES DIP SWITCHES (CONT.)

SPST PIANO-DIP, UNSEALED

Mfg. Part No.	No. of Positions	Length	Stock No.	Price Each		
				1-49	50-99	100-499
76PSB04T	4	0.48" (12.19)	33K2656	1.61	1.42	1.32
76PSB05T	5	0.58" (14.73)	33K2658	1.62	1.44	1.33
76PSB06T	6	0.68" (17.27)	30K6081	1.67	1.48	1.37
76PSB07T	7	0.78" (19.81)	30K6082	1.72	1.52	1.40
76PSB08T	8	0.88" (22.35)	33K2662	1.74	1.54	1.42
76PSB09T	9	0.98" (24.89)	33K2664	1.81	1.60	1.48
76PSB10T	10	1.08" (27.43)	33K2666	1.87	1.66	1.53
76PSB12T	12	1.28" (32.51)	33K2668	1.96	1.73	1.60

SPST PIANO-DIP, SEALED

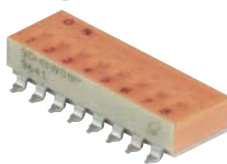
76PSB02ST	2	0.28" (7.11)	33K2652	1.61	1.42	1.32
76PSB03ST	3	0.38" (9.65)	33K2653	1.65	1.46	1.35
76PSB04ST	4	0.48" (12.19)	33K2655	1.69	1.50	1.38
76PSB05ST	5	0.58" (14.73)	33K2657	1.72	1.52	1.40
76PSB06ST	6	0.68" (17.27)	33K2659	1.76	1.56	1.44
76PSB07ST	7	0.78" (19.81)	33K2660	1.81	1.60	1.48
76PSB08ST	8	0.88" (22.35)	33K2661	1.83	1.62	1.49
76PSB09ST	9	0.98" (24.89)	33K2663	1.90	1.68	1.55
76PSB10ST	10	1.08" (27.43)	33K2665	1.96	1.73	1.60
76PSB12ST	12	1.28" (32.51)	33K2667	2.05	1.81	1.68

(5066)

90 SERIES SURFACE MOUNT DIP SWITCHES



90 series DIP switches withstand vapor phase and infrared solder reflow processes to 260°C. Switches are SPST circuitry with recessed sides. All types make and break 5,000 operations per switch position at 10mA, 50mVDC. Contact resistance: 20 milliohms. Dielectric strength: 500VAC rms minimum. Terminals are brass, tin solder-plated over nickel barrier. Contact area is gold-plated. Last two numerals in type number indicate the number of switch positions. "P" suffix in mfg. part no. indicates top seal to protect contact surface from contaminants during cleaning processes; molded base prevents leakage.



SMT, GULL LEAD SEALED

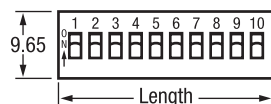
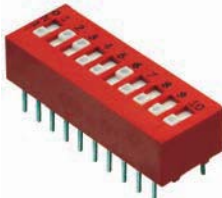
Mfg. Part No.	Positions	Switch Length	Stock No.	Price Each		
				1-24	25-99	100-499
90HBW02PT	2	0.27" (6.9)	63K8698	2.08	1.88	1.73
90HBW06PT	6	0.67" (17.0)	57K1576	2.14	1.93	1.78
90HBW07PT	7	0.77" (19.56)	63K8713	2.16	1.95	1.80
90HBW08PT	8	0.87" (22.10)	63K8715	1.79	1.62	1.49
90HBW09PT	9	0.97" (24.64)	63K8719	2.27	2.06	1.89
90HBW10PT	10	1.07" (27.18)	63K8721	2.41	2.18	2.00

SMT, J-LEAD SEALED

90HBJ02PT	2	0.27" (6.9)	63K8673	2.31	2.09	1.92
90HBJ03PT	3	0.37" (9.40)	63K8676	2.38	2.15	1.98
90HBJ04PT	4	0.47" (11.94)	63K8679	2.03	1.84	1.69
90HBJ05PT	5	0.57" (14.48)	63K8683	2.31	2.09	1.92
90HBJ06PT	6	0.67" (17.0)	63K8686	2.38	2.15	1.98
90HBJ07PT	7	0.77" (19.56)	63K8689	2.40	2.17	1.99
90HBJ08PT	8	0.87" (22.10)	35K5444	1.99	1.80	1.66
90HBJ09PT	9	0.97" (24.64)	63K8693	2.52	2.28	2.10
90HBJ10PT	10	1.07" (27.18)	58K5153	2.67	2.42	2.22

(47874)

78 SERIES DIP SWITCHES



SPST switches feature high-pressure, spring-loaded ball contact system. Dielectric strength: 750V. Current: 3A. Operating temperature: -40°C to +85°C.

RAISED SLIDE SWITCH UNSEALED

Mfg. Part No.	No. of Pos.	Length	Stock No.	Price Each		
				1-49	50-99	100-249
78B02T	2	0.28" (7.11mm)	36K2510	1.88	1.79	1.72
78B03T	3	0.38" (9.65mm)	36K2512	1.95	1.85	1.79

➔ CONTINUED ➔

78 SERIES DIP SWITCHES (CONT.)

Mfg. Part No.	No. of Pos.	Length	Stock No.	Price Each		
				1-49	50-99	100-249
78B04T	4	0.48" (12.19mm)	36K2514	2.01	1.92	1.84
78B05T	5	0.58" (14.73mm)	36K2516	2.08	1.98	1.90
78B06T	6	0.68" (17.27mm)	36K2517	2.15	2.04	1.97
78B07T	7	0.78" (19.81mm)	36K2519	2.18	2.07	2.00
78B08T	8	0.88" (22.35mm)	36K2521	2.25	2.14	2.06
78B09T	9	0.98" (24.89mm)	36K2523	2.31	2.20	2.12
78B10T	10	1.08" (27.43mm)	36K2525	2.34	2.22	2.14
78B12T	12	1.28" (32.51mm)	36K2527	2.48	2.36	2.27

RAISED SLIDE SWITCH SEALED

78B02ST	2	0.28" (7.11mm)	36K2509	2.01	1.92	1.85
78B03ST	3	0.38" (9.65mm)	36K2511	2.08	1.98	1.90
78B04ST	4	0.48" (12.19mm)	36K2513	2.15	2.04	1.97
78B05ST	5	0.58" (14.73mm)	36K2515	2.21	2.10	2.03
78B06ST	6	0.68" (17.27mm)	30K6088	2.28	2.16	2.08
78B07ST	7	0.78" (19.81mm)	36K2518	2.31	2.20	2.12
78B08ST	8	0.88" (22.35mm)	36K2520	2.38	2.26	2.18
78B09ST	9	0.98" (24.89mm)	36K2522	2.44	2.32	2.24
78B10ST	10	1.08" (27.43mm)	36K2524	2.47	2.35	2.26
78B12ST	12	1.28" (32.51mm)	36K2526	2.61	2.48	2.39

RECESSED SLIDE SWITCH UNSEALED

78RB02T	2	0.28" (7.11mm)	36K2529	4.09	3.89	3.75
78RB03T	3	0.38" (9.65mm)	36K2530	1.95	1.86	1.79
78RB04T	4	0.48" (12.19mm)	36K2532	4.38	4.17	4.01
78RB05T	5	0.58" (14.73mm)	36K2534	2.08	1.98	1.90
78RB06T	6	0.68" (17.27mm)	36K2536	2.15	2.04	1.97
78RB07T	7	0.78" (19.81mm)	36K2538	2.18	2.07	2.00
78RB08T	8	0.88" (22.35mm)	28K6433	2.25	2.14	2.06
78RB09T	9	0.98" (24.89mm)	36K2539	2.31	2.20	2.12
78RB10T	10	1.08" (27.43mm)	36K2540	2.34	2.22	2.14
78RB12T	12	1.28" (32.51mm)	36K2542	2.48	2.36	2.28

RECESSED SLIDE SWITCH SEALED

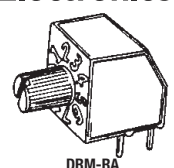
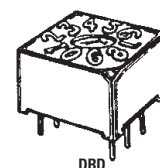
78RB02ST	2	0.28" (7.11mm)	36K2528	2.02	1.92	1.85
78RB03ST	3	0.38" (9.65mm)	30K6095	2.08	1.98	1.90
78RB04ST	4	0.48" (12.19mm)	36K2531	2.15	2.04	1.97
78RB05ST	5	0.58" (14.73mm)	36K2533	2.21	2.10	2.03
78RB06ST	6	0.68" (17.27mm)	36K2535	2.28	2.16	2.08
78RB07ST	7	0.78" (19.81mm)	36K2537	2.31	2.20	2.12
78RB08ST	8	0.88" (22.35mm)	30K6096	2.38	2.26	2.18
78RB09ST	9	0.98" (24.89mm)	30K6097	2.44	2.32	2.24
78RB10ST	10	1.08" (27.43mm)	30K6098	2.47	2.35	2.26
78RB12ST	12	1.28" (32.51mm)	36K2541	2.61	2.48	2.39

(73914)

DR SERIES ROTARY DIP SWITCHES



Gold-flashed brass contacts rated 0.4VA @ 20VDC max. Dielectric strength: 300VAC rms. PC and right angle PC ("RA" suffix) terminals. DRD are flush actuators with 0.236"H x 0.394"W x 0.394"D. DRM are mini-shaft actuators with 0.523"H x 0.394"W x 0.394"D. DRW are wheel actuator versions with 0.366"H x 0.394"W x 0.394"D.



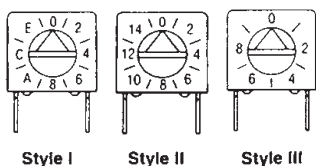
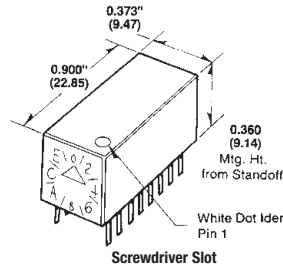
DRD

DRM-RA

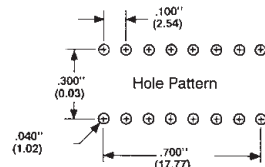
Mfg. Part No.	Output Type	Positions	Stock No.	Price Each	
				1-24	25-49
DRD10E04	BCD	10	69K7028	4.69	4.21
DRM10RA04	BCD	10	06M3803	12.43	11.62
DRW1004	BCD	10	16M3777	6.46	6.13
DRD16CE04	Hexadecimal Compliment	16	69K7009	6.06	5.66
DRD16CRAE04	Hexadecimal Compliment	16	69K7029	4.90	4.58
DRD16CSE04	Hexadecimal Compliment	16	02M1136	6.87	6.42
DRD16E04	Hexadecimal	16	69K7010	6.18	5.78
DRD16RAE04	Hexadecimal	16	69K7030	5.49	4.99
DRM1604	Hexadecimal	16	16M2422	6.94	6.49
DRW1604	Hexadecimal	16	16M2423	7.95	7.43

(4783)

SWITCHES – DIP

PREPROGRAMMED
PC BOARD SWITCHES

Four form C switches operated by encoded cams in DIP package. Two actuating methods available: screwdriver slot and extended D shaft. Regardless of actuation method, cams are bidirectional and have positive detent setting. Choice of 10- and 16-position configurations. Rated 120V_{max}; 1A_{max}; 2.8 volt-amp max. Initial contact resistance: 100 milliohms. Dielectric strength: 300VAC, 60Hz. DC insulation resistance: 1000 megaohms. Copper alloy contacts with gold-over-nickel plating. Glass-filled polyester housing. For extended D shaft, go online or call.



16-POSITION HEXADECIMAL WITH COMPLIMENT

Mfg. Part No.	Actuator	Stamping Legend Style	Bottom Sealed	Removable Tape Seal On Actuator	Stock No.	Price Each
● 53137-5	Screwdriver Slot	I	Yes	No	87F6277	15.84
● 53137-6	Screwdriver Slot	II	Yes	No	87F6278	15.13
● 54792-1	Screwdriver Slot	I	Yes	Yes	87F6279	15.51

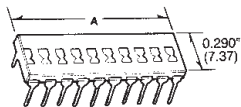
10-POSITION BINARY-CODED DECIMAL (BCD) WITH COMPLIMENT

● 53919-2	Screwdriver Slot	III	Yes	No	87F6269	14.76
● 54778-1	Screwdriver Slot	III	Yes	Yes	87F6270	15.12

(7986)

7600 SERIES
DIP SHUNTS

Shunts comprise conductive straps in 0.100 x 0.300" (2.54 x 7.62) DIP spacing. Straps remain intact for closed circuit, or broken for open circuit. UL recognized, 94V-0 rated, glass-filled thermoplastic housing.



STANDARD PRESSURE—2A FOR +20°C RISE ABOVE AMBIENT

Mfg. Part No.	Positions	Dimension A in. (mm)	Stock No.	Price Each
● 1825190-3	1	0.400 (10.16)	32M6114	1.02
● 1825190-6	1	0.700 (17.78)	14M4075	1.20
● 1825190-7	8	0.800 (20.32)	65K3397	0.91

(7983)

DIP SWITCHES

Just Added

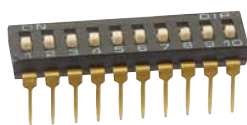


Features:

- 1/2 pitch
- Thru Hole
- Actuator type: Slide
- Pin configuration: DIL

Specifications:

- Contact rating: 100mA
- Flammability rating: UL94V-0
- No. of mechanical operations: 2000
- Pitch spacing: 1.27mm
- Row spacing: 8mm
- Contact plating: Gold plated over nickel
- Terminal plating: Gold



- No. of poles: 1
- Insulation resistance: 100MΩ
- Operating temperature: -30°C to +85°C

Mfg. Part No.	No. of Positions	Dim. "A"	Stock No.	Price Each
● MCNDI-02S	2	6.02	97K4449	0.80 0.61
● MCNDI-04S	4	11.10	97K4450	0.95 0.72
● MCNDI-06S	6	16.18	97K4451	1.08 0.82
● MCNDI-08S	8	21.26	97K4452	1.18 0.89
● MCNDI-10S	10	26.34	97K4453	1.19 0.93

(121396)

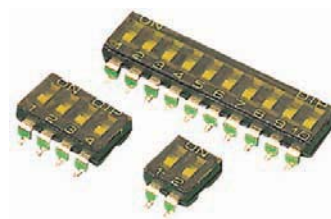
LOW PROFILE - SURFACE
MOUNT DIP SWITCHES

Features:

- End stackable DIL switches
- Recessed actuator
- Top tape sealed

Specifications:

- Contact rating: 25mA at 24Vdc
- Contact resistance: 100mΩ at 500Vdc
- Insulation resistance: 100MΩ at 500V
- Dielectric Strength: 500Vac for 1 minute
- Contacts: Alloy copper with gold plating
- Terminals: Brass with gold plating
- Life expectancy: 2000 ops.
- Operating temperature: -20°C to 85°C
- Body dim: H = 2.8, D = 6mm
- Lead pitch: 7.62 x 2.54mm



Mfg. Part No.	No. of Ways	Width (mm)	Stock No.	Price Each
● MCEMR-02-T	2	4.98	74M3000	0.62
● MCEMR-03-T	3	7.52	74M3001	1.05
● MCEMR-04-T	4	10.06	74M3002	0.70
● MCEMR-05-T	5	12.80	74M3003	1.05
● MCEMR-06-T	6	15.14	74M3004	0.81
● MCEMR-07-T	7	17.68	74M3005	1.20
● MCEMR-08-T	8	20.22	74M3006	0.76
● MCEMR-09-T	9	22.76	74M3007	1.44
● MCEMR-10-T	10	25.30	74M3008	0.85
● MCEMR-12-T	12	30.38	74M3009	1.66

(116481)

SPLAY TERMINALS -
AUTOMATIC INSERTION

Straight Terminals

Specifications

- Contacts: Alloy copper C5210-EH
- Current, switching rating: 10mA @ 5V dc max.
- Current, carry rating: 100mA @ 50V dc max.
- Initial contact resistance: 100mR max.
- Body material: Nylon High-temp Thermoplastic
- Insulation resistance: 100MR @ 500V dc
- Dielectric strength: 300V ac/1 min.
- Capacitance: 5pF
- Operating life: 500 ops.
- Operating temperature: -30°C to 80°C

STRAIGHT TERMINALS

Mfg. Part No.	No. of Ways	Length (mm)	Stock No.	Price Each
● SIP-02T	2	7.62	74M4506	1.13
● SIP-04T	4	12.7	74M4508	1.20
● SIP-06T	6	17.78	97K9766	1.43
● SIP-08T	8	22.86	97K9767	1.58
● SIP-10T	10	27.94	74M4512	1.65

RIGHT ANGLE TERMINALS

● SIP-02A	2	7.62	74M4505	1.17
● SIP-04A	4	12.7	74M4507	1.25
● SIP-06A	6	17.78	74M4509	1.46
● SIP-08A	8	22.86	74M4510	1.54
● SIP-10A	10	27.94	74M4511	1.70

(116556)



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(148833)

SWITCHES – DIP • SWITCHES – DOOR

DS AND DP SERIES
DIP SWITCHES

Features:

- Gold plated contacts and terminals, single throw
- Suitable for most cleaning and soldering processes
- Choice of top actuators or 'piano key' actuators

Specifications:

- Dielectric strength: 500V dc
- Insulation resistance: 100MR @ 500V dc
- Operating Temperature: -40°C to +70°C

It is recommended to solder switches in the 'off' factory supplied position

TOP ACTUATED

Mfg. Part No.	No. of Ways	Length (mm)	Stock No.	Price Each
● MCDS02	2	6.60	26M1101	0.74
● MCDS03	3	8.98	26M1102	0.79
● MCDS04	4	11.68	26M1103	0.83
● MCDS05	5	14.06	26M1104	0.92
● MCDS06	6	16.76	26M1105	0.96
● MCDS07	7	19.14	26M1106	1.05
● MCDS08	8	21.84	73K2737	0.96
● MCDS09	9	24.22	26M1107	1.05
● MCDS10	10	26.92	26M1108	1.17
● MCDS12	12	32.00	26M1109	1.32

SIDE ACTUATED

● MCDA02	2	6.44	26M1089	0.87
● MCDA03	3	8.98	74M2972	1.00
● MCDA04	4	11.72	26M1090	1.05
● MCDA05	5	14.06	74M2973	1.02
● MCDA06	6	16.80	26M1091	1.05
● MCDA07	7	19.14	74M2974	1.17
● MCDA08	8	21.88	26M1092	1.20
● MCDA09	9	24.22	74M2975	1.32
● MCDA10	10	26.76	26M1093	1.35
● MCDA12	12	31.84	26M1094	1.46

PIANO KEY ACTUATED

● MCDP02	2	6.64	26M1095	0.87
● MCDP03	3	9.18	74M2976	1.00
● MCDP04	4	11.71	26M1096	1.05
● MCDP05	5	14.26	74M2977	0.98
● MCDP06	6	16.80	26M1097	1.05
● MCDP07	7	19.34	74M2978	1.17
● MCDP08	8	21.87	26M1098	1.20
● MCDP09	9	24.42	74M2979	1.32
● MCDP10	10	26.96	26M1099	1.35
● MCDP12	12	32.04	26M1100	1.46

(115571)

MCDMR SERIES
DIP SWITCHES

Just Added

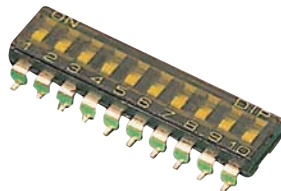


Features:

- Single pole single throw DIL switch
- Surface mount

Specifications:

- Contact rating: 100mA at 50Vdc
- Operation force: 1000gf
- Stroke: 1.0mm
- Electrical life: 2000 operations
- Mechanical life: 2000 operations
- Contact resistance: 50mΩ
- Dielectric Strength: 500Vac
- Maximum capacitance: 5pF
- Circuit: SPST
- Operating temperature: -20°C to +85°C



Mfg. Part No.	No. of Positions	Length (mm)	Stock No.	Price Each
● MCDM(R)-02-T	2	6.02	97K4362	0.82
● MCDM(R)-04-T	4	11.10	97K4363	0.91
● MCDM(R)-06-T	6	16.18	97K4364	1.06
● MCDM(R)-08-T	8	21.26	97K4365	1.15
● MCDM(R)-10-T	10	26.34	97K4366	1.12

(142182)

MICRO SWITCH™ SAFETY
SWITCHES AC SERIES DOOR
SWITCHESHoneywell
Sensing and Control

Fig. 1

Fig. 2

Fig. 3



Fig. 4



Fig. 5

- Electrical Rating: 15A at 125 or 250VAC; 1/2A at 125VDC; 1/4A at 125VDC or 250VDC
- (†) Meets Military Specifications MS16106-4
- (‡) Meets Military Specifications MS16106-1

Switches enable circuit testing with power on by manually pulling rod actuator to maintained-on position. Automatically cut power when service door or drawer is opened.

WITH STEEL ROD ACTUATORS

Mfg. Part No.	Fig.	Description	Free Position Max.	Operate. Position Max.	Depressed Position Max.	Stock No.	Price Each
● 1AC2	1	15 Amps, SPDT	0.438" (11.13)	0.250" (6.35)	0.125" (3.18)	23F1821	58.14
● 2AC6	2	5 Amps, 4 SPDT	0.375" (9.53)	0.203" (5.16)	0.125" (3.18)	23F1922	111.09
● 13AC1	2	5 Amps, 4 SPDT	0.625" (15.88)	0.485" (12.32)	0.263" (6.68)	23F2161	43.90
● 2AC59	3	15 Amps, SPST-NO†	0.375" (9.53)	0.203" (5.16)	0.125" (3.18)	23F1923	40.44
● 3AC6	3	5 Amps, SPST-NO	0.375" (9.53)	0.203" (5.16)	0.125" (3.18)	23F1996	35.52
● 17AC1-T	5	5 Amps, SPDT	0.375" (9.53)	0.220" (5.59)	0.175" (4.45)	05M2384	25.44
17AC18-T	5	5 Amps, SPDT†	0.375" (9.53)	0.220" (5.59)	0.175" (4.45)	23F2172	44.60

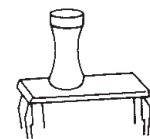
WITH HIGH STRENGTH THERMOPLASTIC ROD ACTUATORS

● 22AC1	3	5 Amps, SPDT	0.375" (9.53)	0.203" (5.16)	0.125" (3.18)	23F2186	26.15
● 22AC2	3	5 Amps, SPDT	0.375" (9.53)	0.203" (5.16)	0.125" (3.18)	23F2187	30.42
● 23AC2	4	15 Amps, SPDT	0.375" (9.53)	0.203" (5.16)	0.125" (3.18)	23F2193	31.39

(3488)

MICRO SWITCH™
DM SERIES PANEL-
MOUNT DOOR
SWITCHESHoneywell
Sensing and Control

Bullet



Pull-to-Cheat

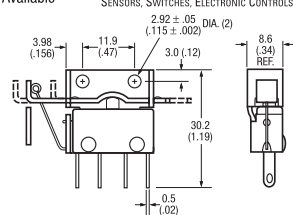
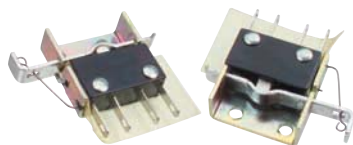
- Momentary action
- Electrical rating: 10A, 1/2Hp; 125, 250 or 277VAC
- Gold Contacts, 1A, 125VAC
- Snap-in mounting
- Rugged

Switches have integral operating plungers and may be used in manual and door applications. 16A versions available; go online or call Newark

Mfg. Part No.	Rating (A)	Circuitry	Plunger	Color Case/Plunger	Stock No.	Price Each
● 1DM437	1	SPDT	Pull-to-Cheat	Black	39B3288	6.90
● 1DM1	10	SPDT	Bullet	White	05M2266	5.41
● 1DM3	10	SPST-NO	Bullet	White	05M2269	19.84
● 1DM57	10	SPDT	Bullet	Silver	05M2271	5.73
● 1DM18	10	SPDT	Concave	Grey/Black	05M2267	5.25
● 1DM21	10	SPDT	Convex	White	05M2268	4.01
● 1DM401	10	SPDT	Pull-to-Cheat	White	05M2270	6.52
● 2DM409	10	DPDT	Pull-to-Cheat	White	05M2521	8.00
● 2DM1	10	DPDT	Bullet	White	05M2519	10.73
● 2DM4	10	DPDT	Bullet	Black	05M2520	9.69

(4927)

SWITCHES – DOOR • SWITCHES – FOOT

LICON DOOR
INTERLOCK SWITCH

- Butterfly® Double-Break Switching Mechanism
- Designed for Service Door or Cabinet Drawer Applications
- Automatic Interruption of Power
- SPDT (Form Z) Circuit

- Rated 5A @ 125/250VAC, 3A @ 28VDC
- Terminals Accept 0.110" Quick Disconnect Type Receptacles
- UL Recognized

Mfg. Part No.	Description	Stock No.	Price Each
● 76-6005	Door Interlock Switch	28F2535	30.09

(5126)

XP SERIES DOOR
SWITCHES

Just Added



Features:

- Long overtravel plunger
- 3mm contact gap
- Reset spring option for increased reset security

Specifications:

- Contact rating: 16A at 400VAC
- Dimensions (mm): 30 x 32 x 12
- Housing: Glass fiber reinforced nylon
- Circuitry: Change-over, NO, NC
- Temperature range: -20°C to +140°C
- Protection IP40 (enclosure)
- Mounting: Screw mounting



burgess

Mfg. Part No.	Current (A)	Operating Force (oz)	Actuator Style	Termination	Stock No.	Price Each
XP52-Z11	16	10.8	Overtravel Plunger	Quick Connect	31P7410	4.81

(142162)

XT SERIES DOOR
SWITCHES

Just Added



Features:

- 8mm contact gap, creepage, and air-gaps
- Safe mechanical separation by reset springs
- Optional insulation accessory and key for maintenance purposes

Specifications:

- Contact rating: 16.5A at 400VAC
- Dimensions (mm): 30 x 32 x 12
- Housing: Glass fiber reinforced polyester
- Temperature range: -20°C to +85°C
- Protection IP40 (enclosure)
- Mounting: Snap-on or screw mounting



burgess

Mfg. Part No.	Current (A)	Operating Force (oz)	Actuator Style	Termination	Stock No.	Price Each
XT022A-Z1	15.5	13.6	Plunger	Quick Connect	51P3643	8.91

(142166)

AQUILINE
FOOT
SWITCHES

Composed of engineered polymeric material that will not rust or corrode. **Mfg. part no. 972-S** housing is die cast metal. 4 x 3/16 x 1 9/32" switches accommodate cord sizes from 0.250 to 0.400 diameter. All types are rated 15A, 1/2HP, 125-250VAC. All mfg. part nos. have momentary action except **Mfg. part no. 972-S** which has two-stage momentary action.



MOMENTARY ACTION

Mfg. Part No.	Color	Circuitry	Cordset	Stock No.	Price Each
● 971-SB	Blue	SPDT	...	04M4828	17.11 16.55
● 971-SO	Orange	SPDT	...	04M4829	17.11 16.55
● 971-SY	Yellow	SPDT	...	04M4830	25.05 21.47
● 971-S	Dark Gray	SPDT	...	04M4827	15.35 14.85

➤ CONTINUED ➤

AQUILINE FOOT SWITCHES (CONT.)

Mfg. Part No.	Color	Circuitry	Cordset	Stock No.	Price Each
● 972-S	Black	SPDT	...	04M4831	48.38 46.80
● 974-S	Dark Gray	DPDT	...	04M4832	24.77 23.97

(47274)

CLIPPER
FOOT
SWITCHES

Wide Treadle



Standard



Protective vinyl boot



Twin Divider

4.500L x 3.500W x 1.500"H except **mfg. part no. 632-S TWIN**, which is 4.500L x 8.375W x 1.500"H with strain relief connector in right side switch. All mfg. part nos. are momentary except **mfg. part no. 632-DA** which is maintained and features push-on/push-off action. **Mfg. part no. 632-SC3** is pre-wired. Includes # 1/4 SJT cable with molded-on, three-prong series plug. Wired normally open with green lead grounded. All mfg. part nos. have SPDT circuits except **mfg. part no. 635-S** which is DPDT. **Mfg. part no. 636-S** is two stage momentary, each stage SPDT. **Mfg. part no. 642-S** is the wide treadle version of **mfg. part no. 632-S**. UL listed, UL recognized, CSA certified, CE compliant. **Mfg. part no. 522-N30** protective boot is available for standard version Clipper series only.

Mfg. Part No.	Description	Stock No.	Price Each
● 632-S	20A, 1 hp, 125-250VAC	04M4757	38.36
● 632-DA	20A, 1 hp, 125-250VAC	04M4756	61.39
● 632S TWIN DIVIDER	20A, 1 hp, 125-250VAC	04M4759	99.43
● 632-SC3	15A, 3/4 hp, 125VAC	04M4758	60.11
634-DA	10A, 125-250VAC; 1/8 hp, 125VAC; 1/4 hp, 250VAC	22C7756	87.76
● 635-S	15A, 125VAC; 10A, 250VAC; 1/2 hp, 125-250VAC	04M4760	56.78
● 636-S	15A, 125VAC; 10A, 250VAC; 1/2 hp, 125-250VAC	70B7056	63.40
● 642-S	20A, 1 hp, 125-250VAC	04M4761	64.97

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each
● 522-N30	Protective vinyl boot, bright orange, Plastisol PVC	83H2024	7.44

(3454)

TREADLITE
II FOOT
SWITCHES

- Utilize V-type snap switch with 0.187" quick disconnect tab terminals
- Light-press treadle alleviates operator fatigue
- Formed steel case has skid-proof base pad

T-91-S is a momentary SPDT unit, 15A, 1/2 hp, 125-250VAC. UL recognized. No cordset. **T-91-SC3** is a momentary SPST wired normally open unit, 10A, 1/2 hp, 125VAC, 6' 18/3 cord and three-prong series plug. Green lead grounded. UL listed, CSA certified. **T-91-SC36** is identical to **T-91-SC3** but rated 10A, 1/2 hp, 125-250VAC and supplied with 6', 18/3 cord without plug. Green lead grounded. UL listed, UL recognized, CSA certified, CE compliant.



Mfg. Part No.	Circuitry	Function	Cordset	Stock No.	Price Each
● T-91-S	SPDT	(On)	None	04M4609	16.82 16.27
● T-91-SC3	SPDT-NO	(On)	6' 18/3 cord w/3-prong plug	04M4610	28.54 27.61
● T-91-SC36	SPDT-NO	(On)	6' 18/3 cord without plug	04M4611	25.01 24.20

(3385)

SWITCHES – FOOT • SWITCHES – JOYSTICKS

HEAVY-DUTY
FOOT SWITCH

LINEMASTER



This foot switch is drip-tight, dust-tight, watertight and oiltight. Snap action - SPDT. Electrical rating: 20A, 1 hp, 125-250VAC. Heavy pilot duty: 250VAC max. Size: 9 1/8" x 6" x 5 5/8". Weight: 4 1/2 lbs. UL listed, CSA certified.

Mfg. Part No.	Description	Stock No.	Price Each		
			1-2	3-4	5-9
531-SWHOX (47273)	"OX" Shield Foot Switch	04M4748	190.49	174.30	160.61

491 SERIES COMPACT
FOOT SWITCHES

LINEMASTER

Steel housing with skid-proof base pad. Dimensions: 2.87L x 2.50W x 1.12"D. Mfg. part no. 491-S is a momentary SPDT unit. 10A, 1/2 hp, 125-250VAC. UL recognized, CSA certified. Mfg. part no. 491-SC3 is a momentary SPDT wired normally open unit. 10A, 1/2 hp, 125VAC. Includes 8' 16/3 cord and three-prong series plug. Green lead grounded. UL listed, CSA certified. Mfg. part no. 491-SC36 is identical to mfg. part no. 491-SC3 but 125-250VAC and has a 6' 16/3 cord without a plug. Green lead grounded. Mfg. part no. 491-SC36MP is identical to mfg. part no. 491-SC36, except it is provided with a mounting bracket. UL listed, CSA certified. Mfg. part no. 491-DA is a maintained SPST unit. 10A, 1/2 hp, 125-250VAC. UL listed, CSA certified.



Mfg. Part No.	Circuitry	Function	Cord	Stock No.	Price Each	
					1-14	15-24
491-S	SPDT	(On)	No	04M4740	30.61	29.47
491SC3	SPDT-NO	(On)	8' 16/3 cord w/3-prong plug	04M4743	55.37	53.31
491-SC36	SPDT-NO	(On)	8' 16/3 cord w/o plug	04M4741	54.93	46.80
491-SC36MP	SPDT-NO	(On)	8' 16/3 cord w/o plug	04M4742	58.56	49.90

(3386)

AIR-SEAL FOOT
SWITCHES

LINEMASTER



Combines a foot-operated air bulb mounted in a strong steel compact housing and a remotely located air-operated electric snap switch. Electrical ratings: 20A 125-250VAC, 1HP @ 125VAC, 2HP @ 250VAC. Operating temperature: 10°F to 120°F. A 10' 1/8" ID PVC tubing connects the foot pedal to the remote air switch, which is equipped with a 3/16" UNF bulkhead mount. UL recognized.

Mfg. Part No.	Description	Circuit	Stock No.	Price Each	
				1-4	5-9
41SH12	Momentary	SPDT	04M4737	83.11	71.93
41DH12	Maintained	SPDT	04M4736	80.19	68.53

(3391)

AIRVAL AIR -ACTUATED
FOOT SWITCHES

LINEMASTER



3C-30A2-S



3B-30A2-S

Air flows when the plunger is depressed, stops flowing when plunger is released and exhausts back pressure on output side. Mfg. part no. 3C-30A2-S is made of a rugged cast iron housing. 1/8-27 NPT inside port; 30cfm air flow at 100psi; 25cfm exhaust at 100psi. Operating force: 10lbs. Mfg. part no. 3B-30A2-S is steel, 1/8-27 NPT exposed port, 30cfm air flow at 100psi; 25cfm exhaust at 100psi. Operating force: 7lbs. Both can use switch guard mfg. part no. 522-B14 sold separately.

Mfg. Part No.	Description	Dimensions	Port	Stock No.	Price Each	
					1-4	5-9
3C-30A2-S	Clipper 3-Way	4 1/2 x 3 1/2 x 1 1/2"	1/8-27 NPT	04M4724	110.46	104.57
3B-30A2-S	Compact 3-Way	2 1/2 x 2 1/2 x 1 1/2"	1/8-27 NPT	04M4723	88.18	83.48

(78511)

PALM/FOOT
SWITCHES

MOELLER

For use where high visibility and large operating surface is required. High-impact design features 94mm operating surface, positive opening contacts. Emergency stop units have yellow base, maintained position contacts, pull-to-release action, and are tamper proof (EN418). Enclosures rated NEMA 4X, 13, IP67, IP69K. Momentary units have gray/black bases. UL listed, CSA certified, CE compliant.



MOMENTARY PUSHBUTTON SWITCHES

Mfg. Part No.	Operator Color	Contacts	Stock No.	Price Each
FAK-S/KC11/I	Black	1 N.O., 1 N.C.	41M3229	135.59
FAK-R/KC11/I	Red	1 N.O., 1 N.C.	41M3227	124.90

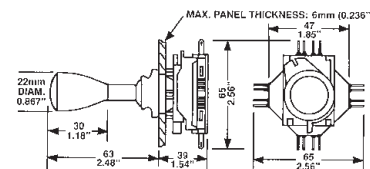
EMERGENCY STOP PUSHBUTTON SWITCH

Mfg. Part No.	Operator Color	Contacts	Stock No.	Price Each
FAK-RV/KC11/IY	Red	1 N.O., 2 N.C.	41M3228	188.71

(59381)

SERIES 44 OIL & WATERTIGHT
JOYSTICK CONTROLLERS

eao



Features:

- Compact and sealed momentary positioning device
- Ideal for hoists and other machinery
- Feature short-throw, rugged momentary switch elements, and self-centering actuation for positive control

Specifications:

- Rating: 6A at 250VAC, 0.5A at 250VDC, 2A at 110VDC, 5A at 75VDC
- Gold-plated silver-nickel alloy contacts
- Contact configuration: 1NO/1NC per position
- Q.C. (0.110 x 0.020") combination push-on or solder terminals

- Sealed to NEMA 4 & 13 and IP65 standards
- 2 million operations in each direction
- Operating temperature: -12 to +158°F
- Zinc-coated, high-manganese steel stems, suitable for certain marine applications

Mfg. Part No.	Description	Action	Stock No.	Price Each
44-800.2	2x 1N.C.+1N.O.	2-Position w/o Latch Position	30C8521	48.51
44-800.4	4x 1N.C.+1N.O.	4-Position w/o Latch Position	30C8522	56.46
44-800.8	4x 1N.C.+1N.O.	8-Position w/o Latch Position	30C8523	82.48

(68184)

M22 22mm JOYSTICK
SWITCHES AND BUZZERS

Just Added

EATON



Joystick



Potentiometer

Features:

- Joysticks, buzzers, 4-way pushbuttons
- Quick installation with modular construction
- Mounting base includes operators
- Heavy duty construction UL NEMA type 4X/13 and IP66 and IP40 (Buzzers) on front panel
- Notched hole mounting with anti-rotation tab

Specifications:

- Contact rating: 4A at 230VAC; 3A at 24VDC
- Rated to max 500VAC and 220VDC
- Action: On = Maintained; (On) = Momentary

JOYSTICK OPERATORS

Mfg. Part No.	No. of Positions	Action	Orientation	Bezel	Stock No.	Price Each
						1-9
M22-WJ2H	2	Off-(On)	Horizontal	Silver	10R1869	111.30
M22-WJ2V	2	Off-(On)	Vertical	Silver	10R1870	111.30
M22-WR2H	2	On-Off	Horizontal	Silver	10R1874	111.30
M22-WR2V	2	On-Off	Vertical	Silver	10R1875	111.30
M22-WJ4	4	Off-(On)	...	Silver	10R1871	146.28
M22-WR4	4	On-Off	...	Silver	10R1876	146.28

➤ CONTINUED ➤

SWITCHES – JOYSTICKS • SWITCHES – KEYLOCK & SELECTOR

M22 22mm JOYSTICK SWITCHES AND BUZZERS (CONT.)

POTENTIOMETERS

Mfg. Part No.	Resistance (Ω)	Bezel	Stock No.	Price Each
				1-9
M22-R1K	1000	Silver	10R1861	133.56
M22-R4K7	4700	Silver	10R1865	133.56
M22-R10K	10000	Silver	10R1862	133.56
M22-R100K	100000	Silver	10R1863	133.56

THROUGH-THE-DOOR OPERATOR

Mfg. Part No.	Description	Stock No.	Price Each
			1-9
M22-DZ-B-GB14	Blue Button, "RESET" inscription	10R1820	19.30

BUZZERS

Mfg. Part No.	dB/10cm	Tone	Voltsge (VAC/DC)	Stock No.	Price Each
					1-9
M22-XAMP	83	Pulsed	18-30	10R1884	40.28
M22-XAM	83	Continuous	18-30	10R1883	40.28

FOUR-WAY PUSHBUTTON OPERATORS

Mfg. Part No.	Button Color	Button Style	Inscription	Bezel	Stock No.	Price Each
						1-9
M22-D4-S	Black	Non-Interlocked	...	Silver	10R1821	146.28
M22-D4-S-X7	Black	Non-Interlocked	Directional Arrows	Silver	10R1822	147.34
M22-D4-S	Black	Interlocked	...	Silver	10R1808	154.76
M22-D4-X7	Black	Interlocked	Directional Arrows	Silver	10R1809	154.76

PALM SWITCH

Mfg. Part No.	Circuitry	Actuator Color	Action	Illumination	Stock No.	Price Each
						1-9
FAK-R-V-KC12-IY	3PST-2NC/1NO	Red	On-Off	Non-Illuminated	10R1767	238.50

CONTACT BLOCKS

Mfg. Part No.	Circuitry	Termination	Stock No.	Price Each
				1-9
M22-K10	1NO	Screw	10R1831	10.60
M22-K01	1NC	Screw	10R1830	10.60

LEGEND PLATES

Mfg. Part No.	For Use With	Inscription	Stock No.	Price Each
				1-9
M22-XCK	Four-Way Pushbutton	...	10R1888	8.22
M22-XCK1	Joystick and 4-Position Selector Switches	4 Directional Arrows	10R1889	9.28
M22-XCK2		0-1-0-2-0-3-0-4	10R1890	9.28
M22-XCK3		2 Directional Arrows	10R1891	9.28

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each
			1-9
M22-USB-SA	Bulkhead Interface, USB 2.0 Type A Socket w/ 2-ft Cable	10R1868	99.64
M22-RJ45-SA	Bulkhead Interface, RJ45 Ethernet Connector	10R1860	51.94

(148567)

JD SERIES KEYLOCK SWITCHES

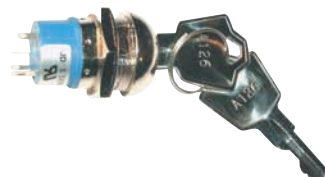


Features:

- 4-tumbler lock
- Multi key-pull positions
- Chrome finish with solid detent
- 2-keys supplied with code stamped on case

Specifications:

- Contact rating: 4A at 125VAC, 2A at 250VAC
- Single pole or double pole
- 45° and 90° indexing
- On = Maintained action; (On) = Momentary action



Mfg. Part No.	Number of Poles	Angle of Throw	Function	Key Pull Position	Stock No.	1-24	25-99
JD7509N	1	90°	On-(On)	1	73J0626	12.32	11.04
JD7510A	1	90°	(On)	1	73J0632	14.48	12.97
JD7509P	1	90°	On-(On)	2	73J0628	11.83	10.60
JD7509R	1	90°	On-(On)	1, 2	73J0630	12.30	11.02
JD7509A	1	45°	On-(On)	1	73J0615	12.10	10.84
JD7509C	1	45°	On-(On)	3	73J0617	12.10	10.84
JD7509E	1	45°	On-(On)	1, 3	73J0620	12.10	10.84
JD7510E	1	90°	(On)	1	73J0634	13.92	12.46
JD75090	2	90°	On-(On)	1	73J0627	14.90	13.34
JD7509Q	2	90°	On-(On)	2	73J0629	11.83	10.60
JD7509S	2	90°	On-(On)	1, 2	73J0631	11.28	10.10
JD7509B	2	45°	On-(On)	1	73J0616	12.10	10.84
JD7509D	1	45°	On-(On)	3	73J0618	12.59	11.27
JD7509F	2	45°	On-(On)	1, 3	73J0621	12.59	11.27

(90821)

C&K YM SERIES FOUR TUMBLER MINIATURE SWITCHLOCKS



- SPST
- Rated: 4A @ 125VAC or 28VDC, 2A @ 250VAC
- Electrical Life: 10,000 Make-and-Break Cycles at Full Load

Quick Connect

Lock: zinc alloy with stainless steel facing. 4-tumbler, single-bitted mechanism with two nickel-plated keys. Switch housing: nylon (UL 94V-2). Contacts and terminals: copper, silver-plated. Mounting hole: 0.472 (12.00) dia. Mounting nut supplied. Ref. number: 2. Snap-together assembly allows for pre-wiring of switch.

Mfg. Part No.	No. of Poles	No. of Positions	Key Pull Position	Key Pull Position	Stock No.	1-9	10-99
YM06132C205NQ	1	2	1	Quick Connect	96F7232	9.93	9.56
YM06132C2WCNQ	1	2	1	Wire Leads	96F7234	11.09	10.68
YM061U2C205NQ	1	2	1, 2	Quick Connect	96F7233	9.93	9.56
YM061U2C2WCNQ	1	2	1, 2	Wire Leads	96F7235	11.09	10.68

(4898)

14 SERIES 22mm KEYLOCK, AND ROTARY SWITCHES



Keylock



Short Lever

Features:

- 2 position keylock and selector switches
- Self-cleaning snap action or low level contacts
- 2 high-security flat keys included with each keylock
- Over 690 keycodes exist for increased security
- Solder and QC terminals available
- Anodized aluminum bezel
- On = Maintained; (On) = Momentary

Specifications:

- Switch ratings: 5A at 250VAC, 2A at 24VDC
- Mount in a 22.5mm (0.885") diameter hole
- Sealed to NEMA 4&13 standards; IP67 rated

SHORT LEVER ACTUATOR

Mfg. Part No.	Circuitry	No. of Positions	Function	Stock No.	Price Each
					1-24
14-506.0250	SPDT	2	On-On	84F560	26.38
14-501.0250	SPDT	2	(On)-(On)	30B3930	26.38
14-507.0250	DPDT	2	On-On	30B3942	35.40
14-502.0250	DPDT	2	(On)-(On)	30B3932	35.10

KEYLOCK ACTUATOR

Mfg. Part No.	Circuitry	Function	No. of Positions	Key Removal Position	Stock No.	Price Each
						1-24
14-235.025K	SPDT	On-On	2	A	84F558	55.79
14-141.025K	SPDT	(On)-(On)	2	A	30B3876	54.70
14-236.025K	DPDT	On-On	2	A	84F559	66.76
14-142.025K	DPDT	(On)-(On)	2	A	30B3878	66.76

(5095)

704 SERIES TWO- AND THREE-POSITION KEYLOCK AND ROTARY LEVER ACTUATORS



STEP 1: Rotary

STEP 1: Keylock

STEP 2: Contact Block

Features:

- Keylock and rotary selector actuators come in round and square bezel; plastic or anodized aluminum
- Keylocks include 2 keys and lever actuator is black
- Middle position is neutral/unactuated in standard 3 position actuator
- Key removable (Rmv) and position codes are left (L), center (C), and right (R)
- Other position/functions exist
- Additional key codes available

➤ CONTINUED ➤

SWITCHES – KEYLOCK & SELECTOR

704 SERIES TWO- AND THREE-POSITION KEYLOCK AND ROTARY LEVER ACTUATORS (CONT.)

Specifications:

- Switch rating: 10A at 600VAC
- Standard mount in 22.5mm (0.885") round hole
- Flush mount in 30.5mm (1.2") round hole
- Sealed to NEMA 13 and 14 standards; (IP65 standard)
- ISO 9001 certified

Use 2-Step Component Process to Assemble Complete Switch:

- STEP 1: Choose keylock or selector switch front section
- STEP 2: Choose contact block separately on page 1746

STEP 1: SHORT LEVER ACTUATOR

Mfg. Part No.	Switch Function	No. of Pos.	Bezel Style	Stock No.	Price Each
704.402.0	On-Off-On	3	Round Gray Plastic	50F7333	17.92
704.403.0	On-On-On	3	Round Natural Aluminum	19C6728	22.01
704.404.0	On-(On)-On	3	Round Gray Plastic	50F7336	17.92
704.405.0	(On)-(On)-(On)	3	Round Natural Aluminum	23C9639	23.08
704.408.0	(On)-Off-On	3	Round Gray Plastic	79K3923	16.85
704.409.0	(On)-Off-(On)	3	Round Natural Aluminum	07J0812	23.07
704.410.0	On-On	2	Round Gray Plastic	50F7327	17.92
704.411.0	On-On	2	Round Natural Aluminum	18C5342	23.08
704.412.0	(On)-None-(On)	2	Round Gray Plastic	24C4608	16.86
704.413.0	(On)-None-(On)	2	Round Natural Aluminum	27C6327	23.08
704.502.0	On-On-On	3	Square Gray Plastic	50F7334	16.89
704.504.0	(On)-(On)-(On)	3	Square Gray Plastic	79K3924	17.92
704.508.0	(On)-Off-(On)	3	Square Gray Plastic	88F1554	16.72
704.510.0	On-On	2	Square Gray Plastic	50F7328	17.92
704.512.0	(On)-None-(On)	2	Square Gray Plastic	79K3925	16.88

STEP 1: FLUSH MOUNT SHORT ROTARY LEVER ACTUATOR

704-4100NX	On-On	2	Round Natural Aluminum	92F7687	31.22
EUS-704.412.ONX	(On)-None-(On)	2	Round Natural Aluminum	79K3921	32.95
EUS-704.402.ONX	On-On-On	3	Round Natural Aluminum	79K3918	30.72
EUS-704.410.OBX	On-On	2	Round Black Aluminum	79K3919	30.51
EUS-704.412.OBX	(On)-None-(On)	2	Round Black Aluminum	79K3920	15.04
EUS-704.402.OBX	On-On-On	3	Round Black Aluminum	02J6447	30.51

STEP 1: KEYLOCK ACTUATOR

Mfg. Part No.	Switch Function	No. of Pos.	Key Removal Position	Stock No.	Price Each
704.1130X	On-On-On	3	L, C, and R	50F7331	39.43
704.115.0	(On)-(On)-(On)	3	C	50F7335	40.22
704.117.0	On-Off-(On)	3	L	50F7337	40.22
704.121.0	On-On	2	L	50F7325	40.22
704.122.0	On-On	2	L and C	50F7329	39.43
704.123.0	(On)-None-(On)	2	C	27C0125	40.22
704.333.0	On-On-On	3	L, C and R	50F7332	40.22
704.335.0	(On)-(On)-(On)	3	C	01H5140	37.81
704.337.0	On-Off-(On)	3	L	79K3922	40.22
704.341.0	On-On	2	L	50F7326	39.21
704.342.0	On-On	2	L and C	31C9111	40.22
704.343.0	(On)-None-(On)	2	C	27C4284	40.22

(5091)

KEYLOCK AND ROTARY SELECTOR SWITCH MODULES

Just Added

EATON



Selector Switch



Key Selector Switch

Features:

- Quick installation with modular construction
- Mounting base included with operators
- Field convertible from momentary to maintained
- Heavy duty construction UL NEMA type 4X/13 and IP66 on front of panel
- Notched hole mounting with anti-rotation tab

Specifications:

- Contact rating: 4A at 230VAC; 3A at 24VDC
- Rated to max 500VAC and 220VDC
- Action: On = Maintained; (On) = Momentary

SELECTOR SWITCHES

Mfg. Part No.	No. of Positions	Actuator Style	Action	Turning Radius	Bezel	Stock No.	Price Each
M22S-WKV	2	Lever	On-Off	90°	Black	10R1963	12.09
M22-WKV	2	Lever	On-Off	90°	Silver	10R1872	13.68

▶ CONTINUED ▶

KEYLOCK AND ROTARY SELECTOR SWITCH MODULES (CONT.)

Mfg. Part No.	No. of Positions	Actuator Style	Action	Turning Radius	Bezel	Stock No.	Price Each
M22-WRK	2	Rotary	On-Off	45°	Silver	10R1877	17.92
M22-WK3	3	Lever	Off-(On)	45°	Silver	10R1873	18.98
M22S-W3	3	Rotary	On-Off	45°	Black	10R1966	18.98
M22-WRK3	3	Lever	On-Off	45°	Silver	10R1878	12.09
M22-WRK4	4	Lever	On-Off	90°	Silver	10R1879	46.11

KEYLOCK SWITCHES

M22S-WS	2	Keylock	Off-(On)	45°	Black	10R1964	37.00
M22-WS	2	Keylock	Off-(On)	45°	Silver	10R1880	37.00
M22S-WS3	3	Keylock	Off-(On)	45°	Black	10R1965	56.71
M22-WS3	3	Keylock	Off-(On)	45°	Silver	10R1881	55.12

CONTACT BLOCKS

Mfg. Part No.	Circuitry	Termination	Stock No.	Price Each
M22-K10	1NO	Screw	10R1831	10.60
M22-K01	1NC	Screw	10R1830	10.60

LEGEND PLATES

Mfg. Part No.	Inscription	Stock No.	Price Each
M22-XST-GB10	OFF ON	10R1901	2.55
M22-XST-GB11	MAN. AUTO	10R1902	2.55
M22-XST-GB12	MAN O AUTO	10R1903	2.55
M22-XST-X88	O I	10R1908	2.55
M22-XST-X93	I O II	10R1909	2.55

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each
M22S-ST-X	Legend Plate Holder	10R1957	1.49
M22-XW	Plunger Bridge for Pushbuttons	10R1910	4.24
M22-KWS	Key Cover for Pushbuttons	10R1911	10.60
M22-XC-R	Key Withdraw Adapter for Pushbuttons	10R1886	4.24

(148566)

30MM SELECTOR SWITCHES 10250T SERIES



Just Added

EATON

- Heavy-duty zinc die cast construction
- Enclosed silver contacts with reliability nibs
- Reliability nibs improve contact reliability even under dry circuit and fine dust conditions
- Drainage holes prevent buildup of liquid inside the operator which can prevent operation in freezing environments
- Grounding nibs bite through paint and other coatings to secure grounding



Knob Selector



Keylock

The 10250T 30.5 mm selector line features a zinc die cast construction with chrome-plated housing and mounting nut. The same durable construction is also available with the corrosive resistant E34 line of pushbuttons.

OPERATORS WITH CAPS

Mfg. Part No.	No. of Positions	Selector Type	Stock No.	Price Each
10250T1311	2	Knob	44K1639	38.77
10250T1323	3	Knob	44K1676	38.77
10250T3011	2	Lever	44K2876	38.77
10250T3023	3	Lever	44K2893	38.77

OPERATORS WITH CAM

10250T15112	2	Keylock	44K1769	102.76
10250T15237	3	Keylock	44K1992	102.76

2-POSITION SELECTOR SWITCHES

Mfg. Part No.	Circuitry	Selector Type	Stock No.	Price Each
10250T20LB	1NO/1NC	Lever	44K2473	71.36

3-POSITION SELECTOR SWITCHES

10250T21LB	SPST-NO/1NO	Lever	44K2578	71.36
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SWITCH ACCESSORIES CONTACTS BLOCK - WITH SCREW TERMINALS

Mfg. Part No.	Circuit	Stock No.	Price Each
10250T1	1NO/1NC	44K1497	31.16
10250T2	DPST-2NO	44K2440	31.16
10250T3	DPST-2NC	44K2854	31.16
10250T51	SPST-NC	44K3626	15.71
10250T53	SPST-NO	44K3639	15.71

▶ CONTINUED ▶

SWITCHES – KEYLOCK & SELECTOR

30MM SELECTOR SWITCHES 10250T SERIES (CONT.)

ROUND LEGEND PLATES

Mfg. Part No.	Circuit	Stock No.	Price Each
			1-14
10250TM38	FOR REV/Selector Switches/ Keylock Switches	44K1276	3.57
10250TM42	OFF ON/Selector Switches/ Keylock Switches	44K1280	3.57
10250TM47	START STOP/Selector Switches/ Keylock Switches	44K1284	3.57
10250TM50	F O R/Selector Switches/ Keylock Switches	44K1287	3.57
10250TM51	H O A/Selector Switches/ Keylock Switches	44K1288	3.57

SQUARE LEGEND PLATES

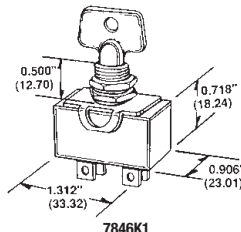
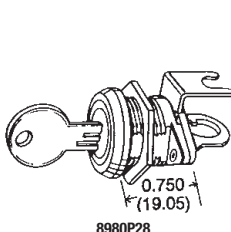
10250TS38	FOR REV/Selector Switches/ Keylock Switches	44K1453	3.77
10250TS42	OFF ON/Selector Switches/ Keylock Switches	44K1458	3.57
10250TS47	START STOP/Selector Switches/ Keylock Switches	44K1463	3.57
10250TS50	F O R/Selector Switches/ Keylock Switches	44K1466	3.57
10250TS51	H O A/Selector Switches/ Keylock Switches	44K1467	3.57

ENCLOSURES

10250TN11	1-Hole 2-Contact Block Depth Enclosure	44K1321	102.76
10250TN12	2-Hole 2-Contact Block Depth Enclosure	44K1322	116.07
10250TN13	3-Hole 2-Contact Block Depth Enclosure	44K1323	137.01
10250TN14	4-Hole 2-Contact Block Depth Enclosure	44K1324	168.40

(136542)

HEAVY-DUTY ROTARY KEYLOCK SWITCH AND BRACKET



Mfg. part no. 7846K1 multiposition switch with quick-connect terminals. 20A @ 125V. Action is Off-On, DPST. Key can be removed when switch is in off position. Mfg. part no. 8980P28 rotary keylock switch and bracket converts 1- and 2-pole toggle switches with 1/8" dia. bushing to security lock switches. 2 nuts, 2 keys.

Mfg. Part No.	Description	Stock No.	Price Each		
			1-9	10-24	50-99
● 7846K1	Heavy-Duty	46F1440	62.88	60.33	
● 8980P28	Security Tumbler	46F1881	67.68	64.93	

(5005)

16mm SELECTOR AND KEYLOCK SWITCHES



Compact units fit into 0.630" (16.00) mounting holes and have back panel mounting depth of less than 1.25" (31.75). Contacts can switch 1A maximum down to a low-level 1mA AC/DC, 5V. Contacts: gold-clad silver. Meet IEC enclosure IP65 classification as waterproof and oil-tight. Solder tab terminals. DPDT contacts. UL recognized, CSA certified, CE marked.

SELECTOR SWITCHES

Mfg. Part No.	Turning Radius	Positions	Shape	Stock No.	Price Each			
					1-9	10-24	25-49	50-99
● AS6M-2Y2P	90°	2	Round	74K3684	19.62	18.32	17.79	16.71
● AS6M-3Y2P	45°	3	Round	74K3685	19.62	18.32	17.79	16.71
● AS6Q-2Y2P	90°	2	Square	76K1008	19.62	18.32	17.79	16.71
● AS6Q-3Y2P	45°	3	Square	96F4092	19.62	18.32	17.79	16.71
● AS6H-2Y2P	90°	2	Rectangular	74K3683	19.62	18.32	17.79	16.71
● AS6H-3Y2P	45°	3	Rectangular	96F4094	19.62	18.32	17.79	16.71

KEYLOCK SWITCHES

● AS6M-2KT2PA	90°	2	Round	66M8381	23.63	22.07	21.42	20.12
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▶ CONTINUED ▶

16mm SELECTOR AND KEYLOCK SWITCHES (CONT.)

PUSHLOCK/TURN RESET EMERGENCY STOP

Mfg. Part No.	Description	Color	Stock No.	Price Each		
				1-9	10-24	25-49
● AB6M-V2P-R	23.5mm Round Mushroom	Red	74K3622	19.55	18.26	17.72
● AB6M-V1R	23.5mm Round Mushroom	Red	50B4156	15.93	14.88	14.44

PUSHBUTTON SWITCHES

● AB6M-M1-W	18mm Round	White	30B5596	8.56	7.99	7.76
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(3413)

30mm SELECTOR SWITCHES



Standard size screw terminal units. Maintain position. Key operator comes with 2 keys. UL listed, CSA certified, CE compliant.



Knob Operator



Key Operator

Mfg. Part No.	Style	Positions	Circuitry	Stock No.	Price Each		
					1-4	5-9	10-14
● ASD211N	Knob Operator (Black)	2	DPST-1NO/1NC	91F6264	24.55	23.75	22.95
● ASD220N	Knob Operator (Black)	2	DPST-2NO	74K3677	24.55	23.75	22.95
● ASD2K20N	Key Operator	2	DPST-2NO	74K3676	46.52	45.02	43.51

(3441)

2 POSITION - SRL SERIES ROTARY KEYLOCK SWITCHES

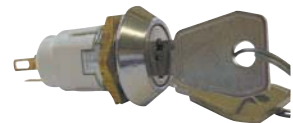


Features:

- Silver plated brass contacts
- Spare keys are available for common key profile
- Each keyswitch is provided with two keys, random or common profile

Specifications:

- Switch rating: 5A at 115VAC
- Lock type: 5 disc
- Indexing: 90°
- Switch chamber: Polyester (PBT) V0 rated
- Keys: Nickel plated steel



KEYLOCK SWITCHES

Mfg. Part No.	Circuitry	Key Removal Position	Key Type	Stock No.	Price Each	
					1-49	50-99
● SRL-5-D-D-2	SPDT-1NO/1NC	0, 1	Random	24M7805	6.94	5.71
● SRL-5-D-S-2	SPDT-1NO/1NC	0, 1	Common	24M7806	6.94	5.71
● SRL-5-E-D-2	SPDT-1NO/1NC	0	Random	24M7807	6.94	5.71
● SRL-5-E-S-2	SPDT-1NO/1NC	0	Common	24M7808	6.94	5.71
● SRL-5-L-D-2	DPDT-2NO/2NC	0, 1	Random	24M7809	6.94	5.71
● SRL-5-L-S-2	DPDT-2NO/2NC	0, 1	Common	24M7810	6.94	5.71
● SRL-5-M-D-2	DPDT-2NO/2NC	0	Random	24M7811	6.94	5.71
● SRL-5-M-S-2	DPDT-2NO/2NC	0	Common	03M4728	6.94	5.71

KEYS

Mfg. Part No.	Description	Stock No.	Price Each
			1-49
● 901	Spare common keys (pair)	26M7868	3.49

(90618)

WRL SERIES SEALED KEYLOCK SWITCHES



Specifications:

- Switch Rating: 5A at 115Vdc; 3A at 50Vdc
- IP67 rating/waterproof
- Life: more than 10,000 cycles
- Operating temperature: -20#UndeTag-786#C to +65 #UndeTag-786#C
- Proof voltage: 750Vdc (initial)
- Insulation resistance: 999MΩ at 500Vdc
- Contact resistance: 20mΩ (initial)
- Lock type: 5 disc
- Std. qty. of keys per lock: 2 brass - Ni plated

Features:

- Miniature key-operated Lock switch
- Single or Double pole
- Up to 200 key combinations
- Common keys available – keys to pass
- Keys are double entry
- Occupies small panel area
- Easily assembled through front of equipment panel
- Rear projection less than 30mm from panel
- Suitable for Marine Environment exposure to Severity 1 (EN60068-2-52)

▶ CONTINUED ▶

SWITCHES – KEYLOCK & SELECTOR

WRL SERIES SEALED KEYLOCK SWITCHES (CONT.)

- Contact material: Brass CZ108 Ag plated
- Moulding material: Polyamide 6.6 UL94V0 rated
- Lock housing: Zinc-alloy bright Cr plated

Mfg. Part No.	No. of Poles	Indexing	Key Removal	Key Options	Stock No.	Price Each
● WRL-5-D-D-2	1	90°	1, 4	Differs (200 variations)	50M5343	15.77
● WRL-5-D-S-2	1	90°	1, 4	Same Key no. 901	50M5344	15.77
● WRL-5-E-D-2	1	90°	1	Differs (200 variations)	50M5345	15.77
● WRL-5-E-S-2	1	90°	1	Same Key no. 901	50M5346	15.77
● WRL-5-M-D-2	2	60°	1	Differs (200 variations)	95M0275	15.77
● WRL-5-M-S-2	2	60°	1	Same Key no. 901	95M0276	15.77

(116604)

XB4 SERIES 22mm NON-ILLUMINATED SELECTOR AND KEYLOCK OPERATORS



Telemecanique™



Quick installation. Operator locks into mounting collar and secures the operator in the enclosure. Contact blocks clip-on, up to 9 circuits. Self-grounding, tamper-proof, and anti-rotating.

STANDARD BLACK LEVER

Mfg. Part No.	No. of Positions	Pos. 1	Pos. 2	Pos. 3	Stock No.	Price Each
ZB4BD2	2	Left, 45° Maint.	Right, 45° Maint.	...	17C7074	22.46
ZB4BD3	3	Left, 45° Maint.	Vert. Maint.	Right, 45° Maint.	17C7075	22.46
ZB4BD5	3	Left, 45° Mom.	Vert. Maint.	Right, 45° Mom.	17C8398	27.51

EXTENDED BLACK LEVER

Mfg. Part No.	No. of Positions	Pos. 1	Pos. 2	Pos. 3	Stock No.	Price Each
ZB4BJ2	2	Left, 45° Maint.	Right, 45° Maint.	...	17C8405	22.46
ZB4BJ3	3	Left, 45° Maint.	Vert. Maint.	Right, 45° Maint.	17C8406	22.46
ZB4BJ5	3	Left, 45° Mom.	Vert. Maint.	Right, 45° Mom.	17C8408	27.51

KEYLOCK OPERATORS

Mfg. Part No.	No. of Positions	Pos. 1	Pos. 2	Pos. 3	Stock No.	Price Each
ZB4BG2	2	Left, 45° Maint.	Right, 45° Maint.	...	17C7076	84.21
ZB4BG4	2	Left, 45° Maint.	Right, 45° Maint.	...	17C8403	84.21
ZB4BG3	3	Left, 45° Maint.	Vert. Maint.	Right, 45° Maint.	17C7077	84.21

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each
ZBG455	Replacement Keys for Keylock Switches	17C8347	10.29

(59681)

30mm NON-ILLUMINATED SELECTOR SWITCHES

30mm round NEMA 4, 13, selector switches. 2 or 3 position maintained. Black knobs. Order contact blocks separately on page 1753.



Schneider Electric



2 POSITION

Mfg. Part No.	No. of Poles	No. of Pos.	Contacts	Config.	Stock No.	Price Each
9001KS11B	...	2	NO NC	XO OX	97F9987	54.72 50.66

3 POSITION

Mfg. Part No.	No. of Poles	No. of Pos.	Contacts	Config.	Stock No.	Price Each
9001KS43B	1	3	NO NC	XOO OOX	97F9988	54.72 50.66
9001KS45B	2	3	NO NC	OXO XOO	16B9561	54.72 50.66

(3396)

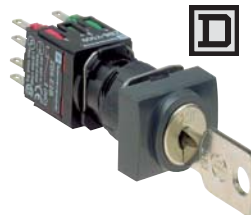
Expert technical support

Chat online to our team of engineers, or connect to them through your representative.

(146838)

XB6 SERIES 16mm SELECTOR SWITCHES

Complete rectangular black units with quick connectors/solder tabs. Feature handle or key operator. Switching angle: handle 60°; key 70°. 2- or 3-maintained positions available. On = Maintained. 1 N/O and 1 N/C. Contacts rated 3A, 300V. Meets NEMA enclosure type 4X. UL listed, CSA certified, CE compliant.



Schneider Electric



Mfg. Part No.	No. of Positions	No. of Poles	Action	Type of Operator	Stock No.	Price Each
XB6DGC5B	2	1	On	Key	17C7039	75.54 72.15
XB6DD225B	2	2	On	Handle	17C7032	41.65 39.78
XB6DGH5B	3	1	On	Key	17C7040	75.54 72.15
XB6DD235B	3	2	On	Handle	17C7033	41.65 39.78

(61173)

COMMAND 164 SERIES SELECTORS & KEYLOCKS

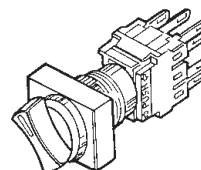


RoHS Compliant Available

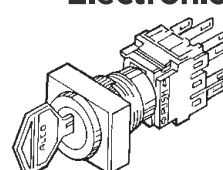


Tyco Electronics

Feature snap-acting double break gold plate over silver-clad contacts. Rated 0.4VA at 20VDC or peak AC, 5A at 250VAC or 24VDC resistive. 90° throw. Contacts provide reliable operation at logic levels and for power switching applications. Contacts electrically isolated from one another. Life: 100,000 operations. Temperature range: -20° to +70°C. UL recognized.



164P Selector



164J Keylock w/2 Keys

COMMAND 164 SERIES SELECTOR SWITCHES

Mfg. Part No.	No. of Poles	No. of Positions	Contacts	Description	Stock No.	Price Each
● 164P2B-11	2	2	1NO/1NC	...	30M8922	47.13 45.19
● 164P2B-22	4	2	2NO/2NC	...	26M8341	55.17 52.90
● 164P3B-22	4	3	2NO/2NC	Center Off	30M8923	67.05 62.69

COMMAND SERIES 164 KEYLOCK SWITCHES

Mfg. Part No.	No. of Poles	No. of Positions	Contacts	Key Removal	Stock No.	Price Each
● 164J2A-11	2	2	1NO/1NC	Left	30M8919	77.49 74.30
● 164J0A11	2	2	1NO/1NC	Left	30M8918	77.49 74.30
● 164J2A-22	4	2	2NO/2NC	Left	26M8340	84.85 81.36
● 164J2B-22	4	2	2NO/2NC	Both	30M8920	78.44 75.21
● 164J3C-22	4	3	2NO/2NC	All	30M8921	83.78 80.33

(4908)

SKF AND SKT SERIES KEYLOCK SWITCHES



Tyco Electronics



SKF-13



SKT-33

SKF-13 series are 4-tumbler, SPST, medium-security switches. Contacts: 1A at 120VAC resistive. Screw terminals. Life: 10,000 cycles. SKT-33 series are DPDT models. Gold-plated contacts rated 0.4VA max. at 20VDC or peak AC. Dielectric strength: 1000Vrms. Two brass keys included.

Mfg. Part No.	No. of Poles	Positions	Key Removal	Stock No.	Price Each
● 2SKF131AEL01	1	Off-On	Off	11F445	25.79 24.17
● 2SKF132AEL01	1	Off-On	Off or On	11F446	17.34 15.86
SKT331AEL01	2	On-None-On	On Posit. 1	11F450	54.97 52.85
SKT332AEL01	2	On-None-On	On or On	11F451	61.03 58.67

ACCESSORIES

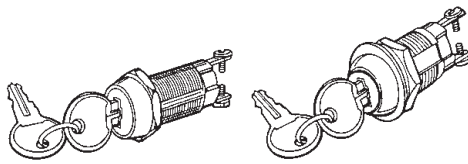
Mfg. Part No.	Description	Stock No.	Price Each
● SK13-23-AEL01	Spare Key	11F440	6.83 6.57

(4912)

SWITCHES – KEYLOCK & SELECTOR • SWITCHES – KEYPADS

SWK SERIES SECURITY
KEYLOCK SWITCHES

- 2 Brass Keys Included



SWK-12

SWK-13/23

SWK-12 are 8-tumbler, SPST, high security models. Contacts: 5A @ 115VAC resistive, 15A @ 24VDC resistive. Life: 20,000 cycles. **SWK-13/23** 5-tumbler, SPST, medium security. Silver contacts rated 1A @ 120VAC; 4A @ 110VAC/28VDC.

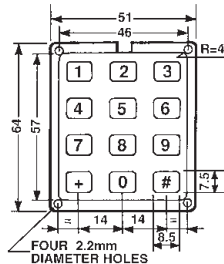
Mfg. Part No.	No. of Positions	No. of Poles	Action	Key Removal	Stock No.	Price Each	
						1-9	10-24
● SWK12F315	2	1	On-Off	On or Off	57F2159	30.54	28.62
● SWK121F315	2	1	On-Off	Off	61F845	29.98	28.64
● SWK123F315	2	1	On-Off	On	61F846	21.16	19.35
● 2SWK131AL101	2	1	Off-On	Off	61F847	31.60	29.61
● 2SWK132AL101	2	1	Off-On	Off or On	61F848	26.66	24.99
● 2SWK231AL101	2	1	Off-(On)-On	Off	11F452	23.66	22.15

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each	
			1-14	15-24
● SWK-12K-F315	Spare Key Fits All SWK-12	11F454	7.28	6.97
● SWK1323AL101	Spare Key Fits All SWK-13	11F455	3.30	3.16

(4911)

ECO SERIES FLUSH-MOUNT KEYPADS



Features:

- Attractive, economical keypad range
- Rugged polycarbonate key and case
- Easy flush mounting
- Matrix and common point circuitry offered
- 16 key and custom versions available

Specifications:

- Rated to more than 1 million operations
- Carbon/gold contacts
- Operating force: 1.2N

Mfg. Part No.	Description	Stock No.	Price Each	
			1-24	
● ECO-12150-06	12-Key Matrix, Telephone	52F534	12.08	

(78946)

SERIES 84R ULTRA
RUGGED KEYPADS

Just Added



Features

- Series 84R is a weather sealed and vandal resistant keypad (IP67)
- For use in hazardous, outdoor environments
- Custom engraved keypad legends

Applications:

- Key entry on security systems
- Access control for industrial machinery
- Data entry on heavy duty scales
- Selection on self-service car wash control panels
- PIN entry on unattended debit terminals
- Available with an optional locking connector

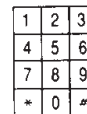
Specifications

- Contact rating: 10mA at 24VDC
- Matrix in-line pins standard (B2) output
- Material: Keys and housing: Aluminum alloy
- Single pole/common bus output available; go online or call

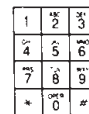


Mfg. Part No.	Matrix	No. of Keys	Stock No.	Price Each	
				1-4	5-9
84R-AB2-112-PD	3x4	12	45P5340	94.73	89.72
84R-BB2-014-PD	4x4	16	45P5341	115.91	109.78

(139077)

84S SERIES ENVIRONMENTALLY
SEALED KEYPADS

-112



-113



-014



-016

84S series 12- or 16-button keypads have a 1-piece black silicone rubber boot which completely seals the switch contacts and the panel cutout. Available snapdome contact is gold-plated. Resistance is MOS, TTL, and DTL compatible. Life is 3 million operations per button. Mfg. part nos. with **84SN** have optional RF/EMI shielding. White buttons on 0.75" (19.05) centers are removable and interchangeable. Keyboards are 0.5" (12.7) above panel. They are mounted by 4 studs #6-32; mounting nuts are included. Circuitry is matrix (XY). Type number suffix indicates legend.

EMI/RFI-SHIELDED

Mfg. Part No.	Buttons	Stock No.	Price Each		
			1-4	5-9	10-24
● 84S-AB2-112-N	12	14M6860	55.37	52.44	49.52
● 84S-BB2-016-N	16	95F9473	59.30	56.17	53.03
● 84S-BB2-014-N	16	14M6864	59.30	56.17	53.03

NON-SHIELDED

● 84SN-AB2-113-N	12	95F9477	73.45	69.56	65.68
● 84SN-BB2-014-N	16	95F9480	78.67	74.51	70.35
● 84SN-BB2-016-N	16	95F9481	78.67	74.51	70.35

(5062)

96 SERIES CONDUCTIVE
RUBBER KEYPADS

3 x 4



4 x 4

96 series are economical 3 x 4 and 4 x 4 conductive rubber keypads. 3 million operations per button. Compatible with high resistance logic circuitry and excellent operator feedback. Matrix circuitry. Rated for 5mA @ 12VDC for 0.5 sec. -30°C to +80°C operating temperature. Front (top) panel or rear (flush) panel mounting. Mfg. part nos. with **-102** and **-006** feature black-on-white legends. Mfg. part nos. **-152** and **-056** feature white-on-black legends. 4x4 legends are alphanumeric telephone plus A thru D; 3x4 are numeric telephone. Shielded versions also available. Also available with backlight; go online or call.

3 x 4 (2.7" x 2.0")

Mfg. Part No.	Mounting	Stock No.	Price Each	
			1-9	10-24
● 96AB2-102-F	Front	14M6876	10.99	9.77
● 96AB2-152-F	Front	97F9127	10.98	9.77
● 96AB2-152-R	Rear	97F9128	14.65	13.03

4 x 4 (3.0" x 2.2")

● 96BB2-006-F	Front	14M6878	12.23	10.88
● 96BB2-006-R	Rear	14M6879	12.23	10.88
● 96BB2-056-F	Front	97F9131	16.31	14.51

(5043)

Huge Expanded
Selection of
Semiconductors

(148843)

Go online to find new technologies and proven solutions from world-class and specialist suppliers.

SWITCHES – KEYPADS

EZ-ACCESS KEYPADS



- Overall dimensions: 104.5 x 118.5 x 17.5mm
- USB coded output for easy integration
- Can be panel-mounted or deployed as a table-top device
- Keypad can be washed and disinfected with most common cleaning agents



Storm® EZ-Access Keypads enhance usability of electronic devices by providing standard, intuitive keys designed to help those with visual and/or mobility impairments. The keypads can be used to help satisfy the requirements of Section 508 of the Federal Rehabilitation Act, which requires that federal agencies give disabled employees and members of the public access to information that is comparable to the access available to others.

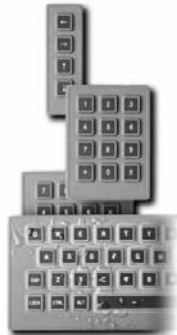
Mfg. Part No.	Description	Stock No.	Price Each
			1-4
● EZ05-222013	5-Key, USB Output	20K7668	186.61
● EZ08-222013	8-Key, USB Output	10M8415	192.22

(83944)

700/900 SERIES KEYPADS FOR WET OR DIRTY ENVIRONMENTS



- Illuminated (900 Series) or Non-Illuminated (700)
- Interchangeable Keypad Legends
- Fast, Reliable Data Entry, Even When Keys are Struck Off Center
- Positive Tactile Response
- Easy to Clean and Decontaminate
- Top-Surface or Under-Panel Mountable
- Connector: 0.1" Pitch Gold Plated, Square Pin Male with Locking Ramp
- Contact Circuit: Gold on Nickel Plated FR4 PC Board



A range of high-specification sealed keypads offering rapid and reliable data entry in extreme wet, dirty, or sterile environments. Storm® 700 and 900 series keypads can be used individually or in combination to create more complex key panel layouts. 900 Series illuminated keypads incorporate twin diode, dual color LEDs.

Mfg. Part No.	Description	Array	Stock No.	Price Each
				1-4
● 70040103	4 Key	Gray 1 x 4 Matrix	79K4502	25.69
● 70040203	4 Key	Black 1 x 4 Matrix	79K4503	25.69
● 70120103	12 Key	Gray 3 x 4 Matrix	50F9593	35.17
● 70120203	12 Key	Black 3 x 4 Matrix	50F9592	35.17
● 70160103	16 Key	Gray 4 x 4 Matrix	79K4504	46.41
● 70160203	16 Key	Black 4 x 4 Matrix	50F9594	46.41
● 70360103	36 Key	Gray 4 x 9 Matrix	79K4505	78.84
● 70360203	36 Key	Black 4 x 9 Matrix	79K4506	78.84
● 90120103	12 Key	Gray 3 x 4 Matrix	79K4514	68.19
● 9016A103	16 Key	Gray 4 x 4 Matrix Illum	95F2225	96.95
● 7004CL03	Mounting Clips	4 Clips	79K4501	4.76

(8645)

420 SERIES RS-232 KEYPAD INTERFACE



- Overall dimensions: 89 x 66mm
- Input power: +5V ±0.25VDC
- RS232 output via 6 pin Molex 2.54mm (0.100") Pitch KK® Series Connector
- Drives PowerTip's 80 character LCD display from keypad



Storm 420 series encoders provide an interface between keypads and host systems. Converting the matrix output from Storm keypads, the encoder sends RS232 output to a host system, via 6 pin (0.1" pitch) connector. The 420 series encoder can also be used to drive the LCD on Storm's integrated keypad and display unit. Alphanumeric data can be sent from the keypad to the display via the encoder. Additionally, data can be sent from a host system to the display via the encoder. The encoder board can be mounted directly onto Storm 12 and 16 way keypads, as well as Storm's integrated keypad/display unit.

Mfg. Part No.	Description	Stock No.	Price Each
			1-14
● 4200-003	RS-232 Keypad Interface	93K7640	70.14

(83943)

1000 SERIES KEYPADS FOR PUBLIC AND OUTDOOR ENVIRONMENTS



- Vandal Resistant
- Metal Casing and Keytops (Chromed)
- Fully Sealed to Meet IP67 Standards for Use in Exposed Outdoor Applications
- Engraved Keypad Characters
- Gold on Nickel Plated FR4 Contact PCB
- Operational Life >4 Million Cycles per Key
- -40°C to +100°C Operational Temperature

Case color is silver; keypad color is silver. Connector is 0.1" pitch, gold plated, square pin, male with locking ramp. Accessories available below.

Mfg. Part No.	Array	Description	Stock No.	Price Each
				1-4
● 1K041103	1 x 4 Matrix	4 Key (Arrows)	10M8461	50.85
● 1K042103	1 x 4 Matrix	4 Key (F1-F4)	10M8462	50.85
● 1K120103	3 x 4 Matrix	12 Key (Calculator Format)	79K4470	73.45
● 1K121103	3 x 4 Matrix	12 Key (Telephone Format)	79K4469	73.45
● 1K160103	4 x 4 Matrix	16 Key (Calculator Format)	96F1407	88.14
● 1K161103	4 x 4 Matrix	16 Key (Telephone Format)	10M8463	88.14

(6537)

1000 PLX SERIES KEYPADS FOR PUBLIC/OUTDOOR ENVIRONMENTS



- Engraved Keypad Characters
- IP65 Rated Against Water and Dust
- High-level Resistance to Impact and Operator Abuse
- Long and Reliable Operational Life (4 Million Plus Operations per Key)
- Gold on Nickel Plated FR4 Contact PCB
- -40°C to 100°C Operational Temp.

Reducing cost and weight of vandal resistant keypads, the PLX series uses a revolutionary super high impact polymer case for resistance to abuse and attack. Chromed keys are retained to provide keypad graphics with unsurpassable toughness and wear resistance. Case color: black. Keypad color: silver. Connector: 0.1" pitch, gold-plated, square pin, male with locking ramp. Can be used with universal encoder as shown; go online or call.

Mfg. Part No.	Description	Array	Stock No.	Price Each
				1-4
● PLX042203	4-Key (F1 - F4)	1 x 4 Matrix	17M7524	44.24
● PLX041203	4-Key (Arrows)	1 x 4 Matrix	10M8439	44.24
● PLX120203	12-Key (Calculator Format)	3 x 4 Matrix	79K4419	63.91
● PLX121203	12-Key (Telephone Format)	3 x 4 Matrix	83F2318	63.91
● PLX160203	16-Key (Calculator Format)	4 x 4 Matrix	10M8441	76.69
● PLX161203	16-Key (Telephone Format)	4 x 4 Matrix	10M8440	76.69

(16533)

New products added weekly

(148886)

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SWITCHES – KEYPADS

2000 SERIES KEYPADS FOR USE IN HARSH INDUSTRIAL/ WET ENVIRONMENTS



- Tough, Impact-Resistant Construction
- Super High Impact-Resistant Polymer Casing and Keytops
- Fully Sealed to IP65, Enabling Low-Pressure Hose Wash Down and Use in Exposed Outdoor Locations
- Laser-Engraved Keypad Characters
- Gold Plated FR4 Contact PCB
- Operational Life: >4 Million Cycles per Key
- Operational Temperature: -25°C (Dry) to +85°C

Case color is mid-gray; keytop color is light gray. Connector: 0.1" pitch, gold plated, square pin, male with locking ramp. Accessories available below.

Mfg. Part No.	Description	Array	Stock No.	Price Each
				1-4
● 2K042103	4-Key (F1-F4)	1 x 4 Matrix	10M8474	35.03
● 2K041103	4-Key (Arrows)	1 x 4 Matrix	92F1783	35.03
● 2K120103	12-Key (Calc.)	3 x 4 Matrix	79K4484	50.85
● 2K121103	12-Key (Tel.)	3 x 4 Matrix	92F1785	50.85
● 2K160103	16-Key (Calc.)	4 x 4 Matrix	10M8476	62.15
● 2K161103	16-Key (Tel.)	4 x 4 Matrix	10M8475	62.15

(6539)

3000 SERIES GENERAL SERVICE USE KEYPADS



- General Service Polymer Casing and Keytops
- Rain and Splashproof to IP54 for Sheltered Outdoor Applications
- Printed Hard-Coated Keypad Characters
- Gold on Nickel-Plated FR4 Contact PCB
- Operational Life: >2 Million Cycles per Key
- -10°C (Dry) to +85°C Operational Temperature
- Illustrations Show Calculator Format

Case color is black; keytop color is black. Connector is 0.1" pitch, gold-plated, square pin, male. Accessories available; call or go online.

Mfg. Part No.	Description	Array	Stock No.	Price Each
				1-4
● 3K042203	4-Key (F1-F4)	1 x 4 Matrix	25C1002	23.76
● 3K041203	4-Key (Arrows)	1 x 4 Matrix	25C1000	23.76
● 3K120203	12-Key (Calculator)	3 x 4 Matrix	79K4488	35.04
● 3K121203	12-Key (Telephone)	3 x 4 Matrix	79K4487	35.04
● 3K160203	16-Key (Calculator)	4 x 4 Matrix	79K4490	42.60
● 3K161203	16-Key (Telephone)	4 x 4 Matrix	79K4489	42.60

(6540)

6000 SERIES ALPHA-NUMERIC, ADA COMPLIANT KEYPADS



- Rugged, reliable and responsive data entry keypads
- Vandal resistant
- Weather resistant to IP65
- Large buttons for clarity and ease of use
- High contrast, laser engraved keypad graphics will not wear off over time
- Overall dimensions: 124 x 118 x 17mm
- Front plate: Brushed stainless steel
- Keys: Super high impact polymer

The 6000 series keypad is perfectly suited for vending applications, access control devices, or any public data entry device. Large, brightly colored keys with raised tactile symbols ensure maximum usability by those with visual or mobility impairments. The 6000 series features Storm's patented weather and vandal resistant switch technology, which allows these devices to be confidently deployed in the harshest outdoor/public environments. Available with integrated key illumination.

➤ CONTINUED ➤

6000 SERIES ALPHA-NUMERIC, ADA COMPLIANT KEYPADS (CONT.)

Mfg. Part No.	Description	Stock No.	Price Each
● 6000-210023	Keypad, Matrix Output	56J6125	122.91
● 6000-220023	Keypad, PS2/USB Output	10M8501	200.94
● 6000-410023	Illuminated Keypad, Matrix Output	20M6721	156.49
● 1200-001003	Cable, PS2	29C7730	14.22
● 1200-002003	Cable, USB	29C7731	14.22
● 6000-MK0003	Mount Kit for 6000 Series	56J6124	8.90

(83953)

SF6000 SERIES KEYPADS

Just Added



Features:

- Impact resistant
- Weather resistant
- Small footprint
- Suitable for use by those with mobility or sensory impairment
- Permanent, high contrast, laser engraved keypad graphics
- Raised tactile symbols on colored function keys and 'home pip' on the 5 key
- Available with black polymer keys, illuminated polymer keys or metal keys
- Can be sanitized using most commonly used cleaning agents

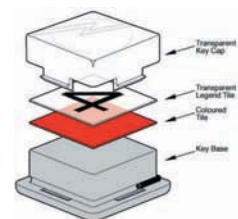
Specifications:

- Contact rating: 50mA at 24VDC
- Contact resistance: 100mΩ
- Illumination voltage: 5VDC
- Mechanical life: 4million ops
- Sealed to IP65 standards
- Operating temperature: -20°C to 60°C
- Overall dimensions: 106.5 x 88.5 x 31mm
- Panel cutout: 78.5 x 96.5mm

Mfg. Part No.	No. of Keys	Output	Features	Stock No.	Price Each
8616-210023	16	Matrix	Laser Engraved Polymer Keys	71P8757	108.90
8616-310023	16	Matrix	Engraved Metal Keys	71P8758	138.65
8616-410023	16	Matrix	Illuminated Polymer Keys	01P2388	138.65

(142335)

GRAPHIC SERIES KEYPADS WITH CUSTOM KEYTOP LEGENDS



- High Impact Polymer Casing and Keytops (with Configurable Keypad Graphics)
- Rain, Splash, and Dust Resistant to P54 Rating
- Gold on Nickel Plated FR4 Contact PC Board
- Operational Life in Excess of 2 Million Operations per Key
- -10°C to +75°C Operational Temperature

Storm® Graphic series keypads feature keypad legends that can be configured or customized. The unique snap-on keypad cover encapsulates a polymer legend tile. The legend tiles can be selected from an extensive library of characters or symbols to suit many applications. Alternatively, customized keypad graphics can be created using laser-printed acetate film or screen-printed polymer film. Keypad colors can also be customized by backing the transparent polymer or acetate legend tile with a second colored tile. The impact-resistant keypad cover, once snapped into place, provides a permanent tamper-resistant lens, protecting the encapsulated legend from physical damage, water ingress, and unauthorized removal. The introduction of the Graphic series means that Storm® keypads can now be tailored to meet specialized requirements even in low or medium quantities. These keypads are ideal for use in industrial, commercial, point of sale, or public applications.

Keypad housing is black, keytops are transparent to show chosen encapsulated color. Legend tile sets each have 26 tiles.

Mfg. Part No.	Description	Array	Stock No.	Price Each
● GS040203	4 Key	1 x 4 Matrix	79K4369	29.52
● GS120203	12 Key	3 x 4 Matrix	79K4370	42.84

➤ CONTINUED ➤

SWITCHES – KEYPADS • SWITCHES – LIMIT

GRAPHIC SERIES KEYPADS WITH CUSTOM KEYTOP LEGENDS (CONT.)

Mfg. Part No.	Description	Array	Stock No.	Price Each
● GS160203	16 Key	4 x 4 Matrix	79K4371	52.36
● GS000003	4 Keytops	Spare Keytops	48F5783	5.85
● GSA0T203	Legend Tile Set A	0-9, ENT, CE/C, Arrows, Arithmetics	79K4357	3.10
● GSB0T203	Legend Tile Set B	ENT, DEL, INS, CAP, ESC, Arrows, /	79K4358	3.10
● GSC0T203	Legend Tile Set C	Alpha Characters (26)	79K4359	3.10
● GSD0T203	Legend Tile Set D	F1-F12, (.), >, ?, \$, etc.	79K4360	3.10
● GSE0T203	Legend Tile Set E	Blank	79K4361	3.10
● GSF0T203	Legend Tile Set F	0-9, A-F, ENT, CLR, Arithmetics	91F9984	3.10
● GS000203	26 Tiles	Gray	79K4367	2.05
● GS000303	26 Tiles	Red	91F9990	2.05
● GS000403	26 Tiles	Green	91F9991	2.05
● GS000503	26 Tiles	Blue	79K4368	2.05
● GS000603	26 Tiles	Yellow	91F9993	2.05
● GS000703	26 Tiles	Translucent	29C7675	1.95

(16532)

GRAPHIC SERIES
ILLUMINATED KEYPADS

- Integrated LED Illumination of Each Entire Key
- Rugged, Reliable and Responsive Key Action
- Sealed against Water and Dust to IP54 Specifications
- Can Be Fixed to a Flat Surface or Under Panel Mounted for a Flush, Low Profile Installation

Field-proven keypads are ideal for use in a wide range of industrial and commercial applications. Illumination of keytops and keytop characters make these responsive data entry keypads suitable for use in dark or subdued lighting conditions. Featuring new LED technology, the perimeter and graphic character of each keytop can be illuminated. Color of keytop illumination is selected by the insertion of translucent filters into the Key Cap (white light version only). Keytop graphics are customized by the insertion of transparent legend tiles into the underside of the Key Cap (white light and red/green light versions).



Mfg. Part No.	Array	Description	Stock No.	Price Each
● GSW040203	4-Key	White Light	95B1344	39.23
● GSRG040203	4-Key	Red/Green Light	79K4364	33.61
● GSW120203	12-Key	White Light	79K4362	61.02
● GSRG120203	12-Key	Red/Green Light	79K4365	48.81
● GSW160203	16-Key	White Light	79K4363	84.08
● GSRG160203	16-Key	Red/Green Light	79K4366	59.67

(47373)

INTEGRATED KEYPAD
AND DISPLAY MODULE

- Can be supplied with or without 20-character, 4-line illuminated LCD securely located behind a scratch-resistant polycarbonate window
- Available with engraved, chromed metal keys or laser-engraved, high-impact polymer keys
- Compatible with the STORM 420 series RS-232 keypad interface

Developed for use in a wide range of industrial and commercial applications, this integrated keypad and display module is extremely tough. Ideal for manufacturing and heavy industries where data entry is required in harsh, dirty or outdoor environments.



Mfg. Part No.	Description	Stock No.	Price Each
● FT4K1003	Robust Without Display	88K1935	118.78
● FT1K0503	Vandal-Resistant Without Display	25C4125	160.27
● FT1K0803	Vandal-Resistant With Display	93K7576	219.62
● FT2K0503	Vandal-Resistant Polymer Keys, Without Display	20M6664	136.58
● FT2K0803	Vandal-Resistant Polymer Keys, With Display	20M6677	195.90

(69338)

STRIKEMASTER™ AXS KEYPADS
FOR ACCESS CONTROL

- One- or two-door control
- Weather resistant for outdoor use (vandal resistant and robust spec.)
- Operational life >4 million cycles per key
- Indexing permits the secure allocation and re-allocation of PIN codes
- Forced door, anti-tamper and duress alarms
- Timed lockout for repeated invalid code input
- LED and audible tone status indication



DE1KT103



DEPLXT203

Secure, self-contained keypad and controller for electrically operated door locks and strikes. Authorized personnel use their PIN code to open either one or two normally locked doors. Up to 50 different 4-, 5-, or 6-digit codes can be individually programmed. Each code can be set to trigger an electric lock or strike for a pre-set time (allowing just one person to access); or to "latch" the door in an unlocked condition (requiring the code to be re-entered to "unlock" or re-lock the door).

Mfg. Part No.	Description	Stock No.	Price Each
● DE1KT103	Strike Master™, Vandal Resistant	93K7534	259.60
● DEPLXT203	Strike Master™, Robust Specification	93K7533	226.56
● DR2KT203	Strike Master™, Single Door Control	88K1897	175.23

(6543)

E50 SERIES HEAVY-DUTY
ASSEMBLED LIMIT SWITCHES

- Operator must be ordered separately
- Viton gasket seals
- Rugged zinc die-cast housing
- Conduit, cable and connector wiring options
- Dozens of operators available
- Rotary, top and side push, wobble and specialty operating heads

E50 series modular plug-in limit switches have standard Viton® gaskets, seals and boots and a zinc die cast enclosure to provide exceptional chemical resistance to the common coolants, cleansing agents, and hydraulic fluids. Super bright 24 to 120VAC/DC LED indicating light versions available. Mounting dimensions accommodate both U.S. and DIN standards. The switches have terminal identification on the nameplate for visual wiring checkout without guesswork. Heads and switch bodies can be replaced without rewiring. Keyed, four direction head positioning. Rotary heads are field convertible CW, CCW, or both, without special tools. Epoxy filled, pin connector or pigtail connector receptacles also available. Standard force to operate contact is 3in.-lbs. Meets IEC 947.5.1 requirements. UL listed, CSA certified, TÜV approved. NEMA 4X, 6, 6P, 13, IP67 rated. Order operators separately on page 1714. Low force spring return (1.5in.-lbs.) also available; go online or call Newark.



HEAVY-DUTY LIMIT SWITCHES

Mfg. Part No.	Circuitry	Actuator Type	Connection	LED	Stock No.	Price Each
E50AR1	DPST-1NO/1NC	Side Rotary	1/2-in NPT Conduit	No	31K6171	174.35
E50ALR1	DPST-1NO/1NC	Side Rotary	1/2-in NPT Conduit	Yes	31K6169	205.07
E50BR1	4PST-2NC/2NO	Side Rotary	1/2-in NPT Conduit	No	31K6175	212.05
E50BLR1	4PST-2NC/2NO	Side Rotary	1/2-in NPT Conduit	Yes	31K6173	241.34
E50ALR1P5	DPST-1NO/1NC	Side Rotary	Mini-Connector	Yes	35K3915	308.28
E50BLR1P9	4PST-2NC/2NO	Side Rotary	Mini-Connector	Yes	35K3917	345.93

SPECIAL-PURPOSE HEAVY-DUTY LIMIT SWITCHES

Mfg. Part No.	Actuator Type	Features	Operating Force Max. (in.-lbs.)	Return Force Min. (in.-oz.)	Stock No.	Price Each
E50NN1	Side Rotary	Neutral Position	1.8	2.5	31K6208	214.82
E50TD1	Side Rotary	Convertible Rotary Head	3.0	4.5	31K6222	222.20

CONNECTOR CABLES

Mfg. Part No.	Description	Stock No.	Price Each
CSMS5D5CY1602	2m Cable for 1-pole Switch	35K3913	26.31
CSMS9D9CY1602	2m Cable for 2-pole Switch	35K3914	43.86

(84793)



Current Order Status & History

Check the status of your current order or access past orders from our website under MY ACCOUNT eSuite. Log in or register today.

(148881)

SWITCHES – LIMIT

E50 SERIES LIMIT SWITCH COMPONENTS



- Wide variety of operator types for rotary and wobble style limit switches
- Rollers and rods available in metal and nonmetal contact surfaces
- NEMX, 4X, 6, 6P, 13, IP67

Cutler-Hammer® operators are used with Eaton's **E50 series** plug-in and 6P+ limit switches and 10316 rotary type limit switches. Complete switch consists of an operator, operating head, body and receptacle. Standard force to operate is 3in-lbs. Low force spring return (1.5in-lbs.) also available; *go online or call Newark*.

LIMIT SWITCH OPERATORS

Mfg. Part No.	Description	Dimensions in.(mm)		Stock No.	Price Each
		Length	Width		
E50KL39	Standard Metal Roller	0.88 (2.2)	0.32 (8.1)	31K6200	19.52
E50KL200	Standard Nylonon Roller	1.5 (38.1)	0.32 (8.1)	31K6193	11.97
E50KL355	Standard Metal Roller	1.5 (38.1)	0.32 (8.1)	31K6199	11.97
E50KL24	Nylonon Offset Inboard Roller	1.5 (38.1)	0.32 (8.1)	31K6198	19.52
E50KL201	Nylonon Adjustable Roller	1-3.75 (25.4-95.2)	0.32 (8.1)	31K6194	19.86
E50KL538	Metal Adjustable Roller	1-3.75 (25.4-95.2)	0.32 (8.1)	31K6205	24.98
E50KL537	Nylonon Adjustable Roller	1-3.75 (25.4-95.2)	1 (25.4)	31K6204	27.61
E50KL443	Nylonon Adjustable Roller	1.63-3.75 (41.3-95.2)	0.29 (7.4)	31K6203	34.73
E50KL399	Nylon Adjustable Rod	5.5 (140)	...	31K6201	24.98
E50KL202	Metal Adjustable Rod	5.5 (140)	...	31K6195	24.98
E50KL220	Adjustable Rod	9 (229)	...	31K6196	19.86
E50KL226	Adjustable Rod	12 (305)	...	31K6197	24.98
E50KL556	Spring Rod	12.12 (308)	...	31K6206	25.80
E50KL421	Spring Rod	11.62 (295)	...	31K6202	24.98
E50KW2	Nylon Wobble Rod	3.1 (78)	...	31K6207	11.97

LIMIT SWITCH OPERATING HEADS

Mfg. Part No.	Description	Spring Return	Stock No.	Price Each
E50DL1	Side Rotary	Low Force	31K6177	83.70
E50DN1	Neutral Position	...	31K6178	72.54
E50DR1	Side Rotary	Standard	31K6179	64.53
E50DS2	Side Pushbutton	Adjustable	31K6180	107.39
E50DS3	Side Push Roller	Standard	31K6181	111.58
E50DT2	Top Pushbutton	Standard	31K6182	94.85
E50DT3	Top Push Roller	Standard	31K6183	101.81
E50DW1	Standard Wobble Head	Standard	31K6184	72.54
E50DW2	Heavy-Duty High Strength Steel Wobble Head	Standard	31K6185	83.70

HEAVY-DUTY LIMIT SWITCH BODIES

Mfg. Part No.	Description	Circuitry	Mounting Type	Stock No.	Price Each
E50SA	Single Pole, Full Size	DPST-1NO/1NC	Panel	31K6213	80.89
E50SAL	Single Pole, Full Size, LED Indicator	DPST-1NO/1NC	Panel	31K6214	110.20
E50SB	Double Pole, Full Size	4PST-2NC/2NO	Panel	31K6217	106.01
E50SBL	Double Pole, Full Size, LED Indicator	4PST-2NC/2NO	Panel	31K6218	134.61
E50SN	Neutral Position	...	...	31K6221	115.78

HEAVY-DUTY LIMIT SWITCH RECEPTACLES

Mfg. Part No.	Description	No. of Terminals	Connection Type	Conduit Entrance	Stock No.	Price Each
E50RA20	Single Pole, Full Size	5	Screw Terminals	20mm	31K6210	20.07
E50RB	Double Pole, Full Size	9	Screw Terminals	1/2-in NPT	31K6211	29.84
E50RAS	Single Pole, Full Size	5	8' Pre-wired Cable	1/2-in NPT	31K6209	59.64
E50RBS	Double Pole, Full Size	9	8' Pre-wired Cable	1/2-in NPT	31K6212	160.41

SENSOR ADAPTER PLATES

Mfg. Part No.	For Use With	Stock No.	Price Each
E50KH1	E50 and E51 Series Sensors to Replace 10316 Type, No Adjustment	31K6186	10.03
E50KH1M	E50 and E51 Series Sensors to Replace 10316 Type, No Adjustment	31K6187	10.03
E50KH7	E50 and E51 Series Sensors to Replace Square D, No Adjustment	31K6192	10.03
E50KH4	E50 and E51 Series Sensors to Replace National Acme, No Adjustment	31K6190	29.02
E50KH5	E50 and E51 Series Sensors to Replace National Acme, No Adjustment	31K6191	10.03

➤ CONTINUED ➤

E50 SERIES LIMIT SWITCH COMPONENTS (CONT.)

Mfg. Part No.	For Use With	Stock No.	Price Each
E50KH2	E50 and E51 Series Sensors to Replace 10316 Type, No Adjustment	31K6189	10.03
E50KH10	E50 and E51 Series Sensors to Replace Allen-Bradley, No Adjustment	31K6188	13.38

CONNECTOR CABLES

Mfg. Part No.	Description	Stock No.	Price Each
CSMS5D5CY1602	2m Cable for 1-pole Switch	35K3913	26.31
CSMS9D9CY1602	2m Cable for 2-pole Switch	35K3914	43.86

(84797)

MICRO SWITCH™ LIMIT SWITCHES 914CE SERIES MINIATURE PREWIRED ENCLOSED



Honeywell

Sensing and Control

Features:

- Rugged switch in miniature package
- Rugged zinc housing
- Sealed to IP65/66/67 for use in outdoor applications

Applications:

- Machine tools
- Plastic molding equipment
- Off-road equipment
- Dock locks/leveling

Specifications:

- SPDT. UL Rating: 5 Amps, 1/16HP, 125 or 250VAC
- Last Digit in mfg. part no. = Cable length in ft.
- Dimensions: 1.74H x 0.63W x 1.58"D
- NEMA 1, 3, 4, 6, 6P, 13



Just Added



Mfg. Part No.	Actuator Type	O.F. (lb)	Stock No.	Price Each
● 914CE1-3	Plunger	2.75	05M3035	64.34
● 914CE1-6	Plunger	2.75	05M3036	73.34
● 914CE1-9	Plunger	2.75	05M3037	79.36
● 914CE2-3	Roller Plunger	2.75	05M3046	90.00
● 914CE2-6	Roller Plunger	2.75	16M3470	91.43
● 914CE2-9	Roller Plunger	2.75	05M3047	89.75
● 914CE3-3	Cross Roller	2.75	23F2350	71.60
● 914CE3-6	Cross Roller	2.75	05M3052	91.43
● 914CE3-9	Cross Roller	2.75	23F2352	89.75
● 914CE16-3	Side Rotary	3	16M3469	87.04
● 914CE16-6	Side Rotary	3	05M3038	99.88
● 914CE169	Side Rotary	3	05M3039	106.45
● 914CE18-3	Booted Plunger	5	05M3040	80.45
● 914CE18-6	Booted Plunger	5	05M3042	93.02
● 914CE18-9	Booted Plunger	5	99F7668	92.76
● 914CE20-3	Spring Wire Wobble	0.125	05M3048	107.31
● 914CE23A	Roller Plunger	2.75	05M3049	80.55
● 914CE2Q	Roller Plunger	2.75	52F8849	83.33

(2951)

MICRO SWITCH™ LIMIT SWITCHES EN SERIES ENVIRONMENT-PROOF

Honeywell

Sensing and Control

EN series limit switches offer environment-proof versatility for military, aerospace and commercial aircraft applications. Meet MIL-S-8805.



1EN1-6

622EN1-6

Mfg. Part No.	Operating Force	Minimum Overtravel	Actuator Type	Stock No.	Price Each
1EN1-6	6-12 lbs.	0.250" (6.35)	Plunger	23F1831	151.40
622EN1-6	6-12 lbs.	0.125" (3.18)	Roller Plunger	23F2320	372.58

(3411)

SWITCHES – LIMIT

MICRO SWITCH™ LIMIT
SWITCHES LS SERIES

Features:

- Mode of operation is field adjustable
- Meets NEMA 1, 3, 4, 6 and 13 standards
- Wide choice of heads and actuators
- Captive screws

Specifications:

- Electrical Ratings: 10A at 120, 240, or 480VAC; ½HP at 120VAC; ¼HP at 240VAC
- Resistive Ratings: 0.8A @ 115VDC; 0.1A @ 550VDC
- Pilot Duty, 600VAC Max.



Honeywell
Sensing and Control



Just Added

Mfg. Part No.	O.F.	P.T.	O.T.	Description	Stock No.	Price Each
1LS23	30ozf	20°	30°	Side Rotary	23F1849	116.87
1LS1	4.5 lbs.	20°	30°	Side Rotary with 1.5" Fixed Length Lever	53K5920	145.90
1LS1-L	4.5 lbs.	20°	30°	Side Rotary with 1.5" Fixed Length Lever	53K5921	145.90
1LS2	4.5 lbs.	20°	30°	Side Rotary with No Lever	53K5924	131.89
1LS9	4.5 lbs.	5°	30°	Side Rotary	23F1846	141.96
1LS19	4.5 lbs.	5°	30°	Side Rotary with 1.5" Fixed Length Lever	53K5923	143.86
1LS56	4.5 lbs.	5°	30°	Side Rotary with No Lever	53K5926	135.72
3LS1	9 lbs.	0.109	0.219	Side Roller Plunger	53K5932	172.94
2LS1	7 lbs.	0.065	0.25	Top Plunger Actuator	53K5928	160.43
5LS1	7 lbs.	0.065	0.219	Top Roller Plunger	23F2019	144.97
8LS1	5 oz.	1.125	...	Wobble Actuated Flexible Cable	23F4162	146.45
8LS3	5 oz.	1.125	...	Spring Rod	53K5970	131.46
208LS152	5 oz.	1.125	...	Coil Spring Wobble Lever Actuator	23F2277	139.09
1LS10	1.7 lbs.	20°	30°	Adjustable Rod Actuator	23F1847	136.82
1LS3	4.5 lbs.	20°	30°	Side Rotary with 1.5" Adj. Length Lever	53K5925	160.19

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each
18PA1	Terminal Block for Plug-in Compact Limit Switches	53K5927	39.57
6PA121	1.5" Standard Steel Roller Lever	23F2055	15.44
6PA63	13" Adjustable Stainless Steel Rod Lever	23F2051	37.38
9PA15	Operating Head, Side Rotary, 1.5" Lever	53K5971	78.16
9PA16	Operating Head, Side Rotary, No Lever	53K5972	67.94
9PA42	Operating Head, Wobble Actuator, Coil Spring	53K5973	102.23

(3409)

MICRO SWITCH™ LIMIT
SWITCHES SL1 SERIES COMPACT

Features:

- Compact limit switches
- Long-life, small size
- Ideal for machine or equipment miniaturization
- Rugged zinc diecast housing
- Snap-in terminal enclosure
- Easy mounting and wiring

Specifications:

- Circuitry: SPDT
- Meet NEMA Enclosure Types 3, 4 and 13 and IEC Enclosure IP67
- Dimensions: 1.27H x 0.70W x 1.78"D (32.4 x 18 x 45.4)
- Operating temperature Range: -10°C to +70°C
- Electrical rating: 5A, 125/250VAC
- Gold cross-point contacts are rated at 0.1 A, 125VAC/30VDC and are denoted by a "K" in mfg. no. suffix



Honeywell
Sensing and Control



Mfg. Part No.	Actuator Style	Operating Force (g)	Over Travel (mm)	Stock No.	Price Each
SL1-EK	Top Roller Plunger	1200	3	05M1275	109.70
SL1-H	Top Plunger	1200	3	05M1276	73.56
SL1-A	Top Roller Plunger	1200	3	15M1945	84.07
SL1-D	Cross Roller Plunger	1200	3	48F2821	94.84
SL1-KK	Cross Roller Plunger	1200	3	31M8020	111.12
SL1-P	Top Roller Arm	400	4	05M1277	94.32

(3053)

TechCast®
Product
Training

Use the library of online training modules located on our homepage under Useful Tools, with specific guidance for complex solutions.

(148857)

MICRO SWITCH™ LIMIT
SWITCHES GLL SERIES
MINIATURE

Features:

- Double break, direct opening snap action contacts conform to IEC 60947-5-1-3
- EN50047 mounting
- Double insulated plastic housing
- Integral contact block
- Hinge cover for easy wiring access
- Sealing to IP65, NEMA 1, 12, 13

Specifications:

- Circuitry: 1NO/1NC direct opening snap action
- 10A thermal ampere rating
- Supply voltage: 300VAC and 250VDC max
- Threaded conduit termination



Honeywell
Sensing and Control



Mfg. Part No.	Operating Force (N)	Pre-Travel	Conduit Thread	Actuator	Stock No.	Price Each
GLLA01B	9.8	2.8mm	½" NPT	Pin Plunger	16M4444	12.94
GLLA01C	9.8	2.8mm	½" NPT	Roller Plunger	16M4445	14.21
GLLC01B	9.8	2.8mm	20mm	Pin Plunger	16M4450	15.78
GLLC01C	9.8	2.8mm	20mm	Roller Plunger	16M4451	16.97
GLLA01A1B	12	30°	½" NPT	Roller Lever	16M4441	13.89
GLLA01A1Y	12	30°	½" NPT	50mm Rubber Roller Lever	16M4442	17.91
GLLA01A2B	12	30°	½" NPT	Adjustable Roller Lever	84K8710	16.29
GLLA01A2Y	12	30°	½" NPT	Adjustable 50mm Rubber Roller Lever	16M4443	18.90
GLLC01A1B	12	30°	20mm	Roller Lever	16M4446	18.21
GLLC01A2B	12	30°	20mm	Adjustable Roller Lever	16M4448	19.45
GLLC01A2Y	12	30°	20mm	Adjustable 50mm Rubber Roller Lever	16M4449	23.05

(89496)

MICRO SWITCH™ LIMIT
SWITCHES GLS SERIES
MINIATURE GLOBAL

Features:

- Double break, direct opening contacts conform to IEC 60947-5-1-3
- EN50047 globally accepted mounting standard
- Sealing up to IP67/NEMA 4
- Suitable for most industrial applications and outdoor environments
- Full range of actuator heads and levers
- Snap action + slow action contact available
- Gold contacts are available for low energy switching

Specifications:

- Current rating: 10A (thermal)
- Temperature range: -25°C to 85°C (-13°F to 185°F)
- Mechanical life: 5 million operations
- Vibration: 10g conforming to IEC 68-2-6
- Shock: 50g conforming to IEC 68-2-27
- ½" NPT conduit thread

GLS miniature global switches are designed to provide a complete range of globally approved products. Side rotary versions offer a unique dual bearing design, preventing side loading during application. Compact housing size is ideal for mounting where space is at a premium.

EN50047 METAL STANDARD

Mfg. Part No.	Circuitry	Operating Force (N)	Actuator Type	Stock No.	Price Each
GLCA01E7B	SPDT-1NO/1NC		Wobble Coil Actuator	38B6288	47.84
GLCA01A2B	SPDT-1NO/1NC	0.12	Adjustable Metal Roller	38B6283	44.06
GLCA01A2A	SPDT-1NO/1NC	0.12	Adjustable Nylon Roller	38B6282	44.06
GLCA01A4J	SPDT-1NO/1NC	0.12	Adjustable Metal Rod	38B6284	44.44
GLCA01A1B	SPDT-1NO/1NC	0.12	Metal Roller	38B6281	42.87
GLCA01A1A	SPDT-1NO/1NC	0.12	Nylon Roller	38B6280	37.28
GLCA01D	SPDT-1NO/1NC	9.5	Top Roller Lever	38B6287	50.39
GLCA01B	SPDT-1NO/1NC	16	Top Pin Plunger	38B6286	41.87
GLCA01K8A	SPDT-1NO/1NC	0.1	Wobble Cat Whisker	38B6289	39.79

EN50047 DOUBLE INSULATED PLASTIC STANDARD

Mfg. Part No.	Circuitry	Operating Force (N)	Actuator Type	Stock No.	Price Each
GLDA01E7B	SPDT-1NO/1NC	0.1	Wobble Coil Actuator	38B6431	35.03
GLDA01A2B	SPDT-1NO/1NC	0.12	Adjustable Metal Roller	38B6424	35.82
GLDA01A2A	SPDT-1NO/1NC	0.12	Adjustable Nylon Roller	38B6422	35.35
GLDA01A4J	SPDT-1NO/1NC	0.12	Adjustable Metal Rod	38B6425	33.18
GLDA01A1B	SPDT-1NO/1NC	0.12	Metal Roller	38B6421	30.62
GLDA01A1A	SPDT-1NO/1NC	0.12	Nylon Roller	38B6420	24.63
GLDA01D	SPDT-1NO/1NC	9.5	Top Roller Plunger	38B6430	37.71
GLDA01B	SPDT-1NO/1NC	16	Top Pin Plunger	38B6428	24.80
GLDA01C	SPDT-1NO/1NC	16	Top Roller Lever	38B6429	32.07

» CONTINUED »

SWITCHES – LIMIT

MICRO SWITCH™ LIMIT SWITCHES GLS SERIES MINIATURE GLOBAL (CONT.)

EN50047 3 CONDUIT METAL STANDARD

Mfg. Part No.	Circuitry	Operating Force (N)	Actuator Type	Stock No.	Price Each	
					1-4	
● GLEA01A2B	SPDT-1NO/1NC	0.12	Adjustable Metal Roller	38B6562	54.10	
● GLEA01A2A	SPDT-1NO/1NC	0.12	Adjustable Nylon Roller	38B6561	56.15	
● GLEA01A1B	SPDT-1NO/1NC	0.12	Metal Roller	38B6560	52.31	
● GLEA01A1A	SPDT-1NO/1NC	0.12	Nylon Roller	38B6559	52.31	
● GLEA01E7B	SPDT-1NO/1NC	0.12	Wob Coil Actuator	38B6569	55.20	
● GLEA01B	SPDT-1NO/1NC	16	Top Pin Plunger	38B6566	52.44	
● GLEA01C	SPDT-1NO/1NC	16	Top Roller Plunger	38B6567	62.65	
● GLEA24A2A	DPDT-2NO/2NC	0.165	Adjustable Nylon Roller	38B6597	76.54	
● GLEA24A1B	DPDT-2NO/2NC	0.12	Metal Roller	38B6596	49.31	
● GLEA24B	DPDT-2NO/2NC	13	Top Pin Plunger	38B6602	74.00	
● GLEA24C	DPDT-2NO/2NC	13	Top Roller Plunger	38B6603	74.65	

(87047)

MICRO SWITCH™
LIMIT SWITCHES
SZL-VL SERIES
COMPACT
Honeywell
Sensing and Control


Features:

- Ideal for OEM machinery
- Rugged and reliable
- Capable of being mounted in space restricted applications
- Choose from a wide range of actuators to add additional flexibility.

Specifications:

- Diecast base and plastic cover
- Current rating: 5.0A / 0.4A
- Supply voltage: 250VAC / 125VDC
- SPDT-1NC/1NO; Double break
- Gold plated silver contacts
- Termination: Cable gland
- IP64 rated

Mfg. Part No.	Fig.	Circuitry	Operating Force (N)	Actuator	Stock No.	Price Each	
						1-14	15-24
● SZL-VL-A	1	SPDT-1NO/1NC	5.88	Standard Roller Lever	86C1107	27.20	20.62
● SZL-VL-B	2	SPDT-1NO/1NC	3.35-7.84	Adjustable Roller Lever	72C9881	31.23	29.70
● SZL-VL-D	3	SPDT-1NO/1NC	8.83	Top Plunger	86C1108	31.46	29.92
● SZL-VL-E	4	SPDT-1NO/1NC	8.83	Cross Roller Plunger	86C1110	30.90	29.30
● SZL-VL-H	5	SPDT-1NO/1NC	8.83	Roller Plunger	86C1112	32.41	30.82
● SZL-VL-F	6	SPDT-1NO/1NC	0.88	Plastic Rod Coil Spring	58K9745	32.41	30.82
● SZL-VL-G	7	SPDT-1NO/1NC	0.88	Coil Spring	86C1111	32.41	30.82

(85536)

MICRO SWITCH™
LIMIT SWITCHES E6/V6
COMPACT ENCLOSED
Honeywell
Sensing and Control

Features:

- Original Micro Switch over 50 years of installed base
- Precision switching mechanism
- Boot versions meet IP66, NEMA 1, 3, 4 for use in harsh applications
- Multiple actuators for design versatility
- Applications: Off road equipment, industrial machinery, refuse vehicles, balers/compactors

Specifications:

- SPDT switches are 15A @ 125, 250, or 480VAC and 2A @ 600VAC; 0.5A @ 125VDC and 0.25A @ 250VDC; 1/2 Hp @ 125VAC; 1/4 Hp @ 250VAC
- DPDT switches are rated 10A @ 125 and 250VAC; 0.3A @ 125VDC and 0.15A @ 250VDC
- Switch body dimensions: 3.04L x 1.00W x 1.75"H
- E6 NEMA 1
- V6 NEMA 1, 3



➤ CONTINUED ➤

MICRO SWITCH™ LIMIT SWITCHES E6/V6 COMPACT ENCLOSED (CONT.)

Mfg. Part No.	Circuitry	Operating Force (oz.)	Over Travel in.(mm)	Features	Stock No.	Price Each	
						1-14	
● BZE6-2RN	SPDT	9-13	0.219 (5.56)	Side Mount w/Seal Boot	04M8405	41.95	
● BZE6-2RN-S	SPDT	9-24	0.219 (5.56)		38B3846	48.98	
● BZE6-2RN7	SPDT	9-24	0.219 (5.56)		04M8410	47.59	
● BZE6-2RN34	SPDT	15-39	0.219 (5.56)		04M8409	55.83	
● DTE6-2RN	DPDT	26-59	0.110 (2.80)	Side Mount w/o Seal Boot	23F4220	131.28	
● BZE6-2RQ	SPDT	9-24	0.219 (5.56)		04M8412	38.73	
● BZE6-RQ8X2	SPDT	6-9.5	0.140 (3.55)		23F4292	100.24	
● BZE6-2RQ8*	SPDT	9-13	0.140 (3.55)		04M8415	53.24	
● BZE6-2RQ9†	SPDT	9-13	0.140 (3.55)	Side Mount Roller Plunger w/o Seal Boot	04M8417	58.96	
● BZE6-2RN-S	SPDT	9-24	0.219 (5.56)		38B3846	48.98	
● DTE6-2RQ9	DPDT	24-48	0.125 (3.18)		23F5068	136.60	
● BZE6-2RN80	SPDT	9-34	0.219 (5.56)		04M8411	68.82	
● BZE6-2RQ2	SPDT	10-18	0.219 (5.56)	Side Mount Roller Lever w/o Seal Boot	04M8413	55.25	
● BZE6RQ2X2	SPDT	10-18	0.219 (5.56)		38B3834	103.65	
● BZE6-2RN2	SPDT	10-20	0.219 (5.56)		04M8407	68.82	
● DTE6-2RN2	DPDT	6-48	0.219 (5.56)		04M8783	149.95	
● BZV6-2RN2‡	SPDT	10-20	0.219 (5.56)	Flange Mount Roller Lever w/Seal Boot	23F4219	70.81	
● BZE6-2RQ81	SPDT	9-13	0.140 (3.55)		04M8416	61.99	
● BZE6-2RN28+	SPDT	8-20	0.219 (5.56)		04M8408	82.54	
● BZE6-2RN18+	SPDT	7	UNL		04M8406	74.60	
● BZE6-2RN4+	SPDT	10-20	0.219 (5.56)	Side Mount Manual w/Seal Boot	23F4295	80.46	

* Low temperature construction to -32°C; † Not CE compliant

‡ 8 mounting screws; + Push to reset

(2949)

MICRO SWITCH™
LIMIT SWITCHES BAF1
AND DTF2 SERIES
HIGH-CAPACITY
ENCLOSED PRECISION
Honeywell
Sensing and Control


Just Added

Features:

- Meets NEMA 1, 3, 4 and 13 requirements
- Up to 20A capacity
- Zinc housing with 3-hole mounting

With Seal Boot, Left-Hand Actuator BAF1

Elastomer boot protects actuating mechanism and internal switch. Seal gasket between cover plate and the enclosures. Actuator position is "right" (suffix-RH) or "left" (suffix-LH) when looking at name plate. 4.00"L x 1.30"W x 2.16"H + actuator.

PIN PLUNGER ACTUATOR

Mfg. Part No.	Circuitry	Current Rating (A)	Operating Force (N)	Mounting	Stock No.	Price Each	
						1-24	25-49
● BAF1-2RN-RH	SPDT	20	11.2	Flange	23F5036	101.96	93.10
● DTF2-2RN-RH	DPDT	10	11.2	Screw Terminal	04M8785	164.20	150.82
● DTF2-2RN-LH	DPDT	10	11.2	Screw Terminal	04M8784	164.20	150.82

TOP ROLLER PLUNGER ACTUATOR

● BAF12RQ9RH	SPDT	20	11.1	Screw Terminal	04M8338	133.34	122.47
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ROLLER LEVER ACTUATOR

● BAF1-2RN2-LH	SPDT	20	8.9	Flange	23F5037	128.78	117.58
● BAF1-2RN2-RH	SPDT	20	8.9	Flange	23F5038	114.78	110.59

COIL SPRING WOBBLE ACTUATOR — 15° PRE-TRAVEL

● BAF13CN18X1	SPDT	20	6.67	Flange	04M8339	213.16	195.79
● BAF1-2RN18-RH	SPDT	20	...	Flange	53K5622	137.16	125.40
● BAF1-2RN18-LH	SPDT	20	...	Flange	23F5039	128.54	123.84

(2952)



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(148830)

SWITCHES – LIMIT

MICRO SWITCH™ LIMIT SWITCHES GL SERIES GLOBAL

Just Added



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Sensing and Control



Fig. 1



Fig. 2

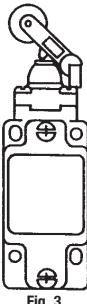


Fig. 3

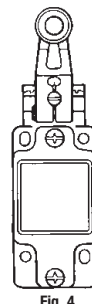


Fig. 4

Specially designed limit switches meet IEC standard for global application. Meets IEC IP67 enclosure classification and NEMA enclosure Type 4. 10A rated carry load, approximate mechanical life of 15,000,000 operations. Snap-action positive opening contacts. Contact configurations: 1 N.O., 1 N.C. ½" NPT conduit opening in solid die-cast housing. 4.05(102.9)H x 1.65(41.9)W x 1.64"(41.7)D. Dimensions are inches and (mm).

Mfg. Part No.	Fig.	Description	Stock No.	Price Each	
				1-24	25-49
GLAA01B	1	Top Rod Plunger	95F9321	64.01	58.45
GLAA01C	2	Top Roller Plunger	95F9322	86.33	81.98
GLAA01D	3	Roller Lever on Plunger	95F9323	71.42	65.32
GLAA01A	4	Side Rotary (less lever)	38B6212	68.54	64.71

(3546)

MICRO SWITCH™ LIMIT SWITCHES HEAVY-DUTY



Honeywell

Sensing and Control

Just Added



Features:

- Robust switch
- Wide variety of actuators circuitry and body styles allows for design flexibility
- Low temp seals can be used outdoors
- Exceeds IP67 for harsh duty applications
- Applications: Material handling, agric. equip., off-road equip., industrial machinery

Specifications:

- Pilot Duty (DC): 240VDC, 30 Watts
- 120VDC, 0.25 Inductive, 0.8 Resistive; 240VDC, 0.015 Inductive, 0.4 Resistive
- Pilot Duty (AC): 600VAC, 720VA. 120VAC, 6A Make, 60A Break
- 10A Continuous Carry
- Size: 4.69 (H) x 1.88 (W) x 1.78" (D)
- (On) = Momentary; On = Maintained

Side rotary limit switch heads can be field-adjusted in four positions and actuators can be field-adjusted for CW, CCW or both operations. Corrosion-resistant zinc head and body are epoxy-finished. Stainless steel side rotary shaft. NEMA 1,3,4,4X, 6,6P,13. Order levers for rotary actuated switches separately on this page. Manifold-mount, low temperature, fully-potted, preleaded, gravity-retent stainless steel, quick connect, viton steel, wobble, and other limit switch versions available; go online or call.

Mfg. Part No.	Circuitry	Function	Operating Force (N)	Pre-Travel	Actuator Style	Stock No.	Price Each
							1-14
LSA1A	SPDT-1NO/1NC	(On)	0.45	15°	Side Rotary	23F4784	103.64
LSA1E	SPDT-1NO/1NC	(On)	0.45	15°	Side Rotary	23F4788	107.85
LSA3K	SPDT-1NO/1NC	(On)	0.45	15°	Side Rotary	53K5743	103.88
LSA5A	SPDT-1NO/1NC	(On)	0.45	15°	Side Rotary	05M0535	129.15
LSB1A	SPDT-1NO/1NC	(On)	0.28	25°	Top Rotary	53K5746	140.49
LSH1A	SPDT-1NO/1NC	(On)	0.19	9°	Side Rotary	05M0539	117.07
LSN1A	SPDT-1NO/1NC	On-(On)	0.45	65°	Side Rotary	23F4824	122.70
LSP1A	SPDT-1NO/1NC	(On)	0.45	9°	Side Rotary	53K5753	109.92
LSP3K	SPDT-1NO/1NC	(On)	0.45	9°	Side Rotary	53K5754	109.92
LSM6D	DPDT-2NO/2NC	(On)	0.45	18°	Side Rotary	53K5752	119.34
LSM7N	DPDT-2NO/2NC	(On)	0.45	18°	Side Rotary	23F4823	104.71
LSM2D	DPDT-2NO/2NC	(On)	0.45	18°	Side Rotary	53K5751	119.34
LSA2B	DPDT-2NO/2NC	(On)	0.45	15°	Side Rotary	23F4790	113.49
LSA6B	DPDT-2NO/2NC	(On)	0.45	15°	Side Rotary	53K5745	126.18
LSA7L	DPDT-2NO/2NC	(On)	0.45	15°	Side Rotary	23F4795	128.42
LSC1A	SPDT-1NO/1NC	(On)	17.79	0.07in	Top Plunger	53K5747	133.26
LSW1A	SPDT-1NO/1NC	(On)	26.69	0.10in	Side Plunger	23F4839	113.49
LSD1A	SPDT-1NO/1NC	(On)	17.79	0.07in	Top Roller Plunger	53K5748	126.18
LSF1A	SPDT-1NO/1NC	(On)	26.69	0.10in	Side Roller Plunger	23F4807	138.14

(3503)

MICRO SWITCH™ LEVERS FOR ROTARY-ACTUATED SWITCHES

Just Added



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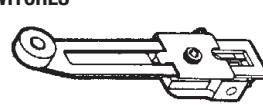


Fig. 1

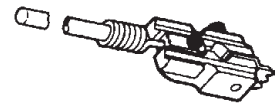


Fig. 2

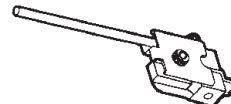


Fig. 3

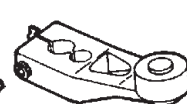


Fig. 4

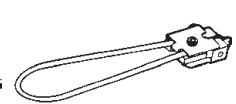


Fig. 5

Mfg. Part No.	Fig.	Description	Radius	Mounting	Stock No.	Price Each
LSZ52D	1	Adjustable Radius, Steel Roller Lever (0.75" Diameter; 0.25" Width)	1.5"-3.5"	Front	53K5770	17.67
LSZ52A	1	Adjustable Radius, Nylon Roller Lever (0.75" Diameter; 0.25" Width)	1.5"-3.5"	Back	23F4867	18.34
LSZ52C	1	Adjustable Radius, Nylon Roller Lever (0.75" Diameter; 0.25" Width)	1.5"-3.5"	Front	53K5769	16.34
LSZ52B	1	Adjustable Radius, Steel Roller Lever (0.75" Diameter; 0.25" Width)	1.5"-3.5"	Back	53K5768	17.88
LSZ54	1	Adjustable Radius Roller Lever (Hub Only)	...	...	23F4874	13.69
LSZ52J	1	Adjustable Radius, Nylon Roller Lever (1.0" Diameter; 0.25" Width)	1.5"-3.5"	Front	23F4871	25.26
LSZ52K	1	Adjustable Radius, Nylon Roller Lever (1.5" Diameter; 0.25" Width)	1.5"-3.5"	Front	23F4872	26.00
LSZ68	2	Delrin Rod with Spring (0.25" Diameter)	12"	...	53K5772	26.00
LSZ54N	3	Stainless Steel Rod Actuator	13"	...	23F4876	17.67
LSZ54R	3	Spring Wire Actuation Lever	12"	...	23F4877	20.09
LSZ54M	3	Aluminum Rod Actuation Lever	5.5"	...	23F4875	18.34
LSZ51B	4	Standard Steel Roller Lever (0.75" Diameter; 0.25" Width)	1.5"	Front	23F4862	10.97
LSZ51A	4	Standard Nylon Roller Lever (0.75" Diameter; 0.25" Width)	1.5"	Front	53K5766	11.18
LSZ51D	4	Standard Steel Roller Lever (0.75" Diameter; 0.25" Width)	1.5"	Back	53K5767	11.77
LSZ51C	4	Standard Nylon Roller Lever (0.75" Diameter; 0.25" Width)	1.5"	Back	23F4863	11.34
LSZ61	5	Flexible Nylon Loop	6"	...	53K5771	19.79

(3504)

ENCLOSED LIMIT SWITCHES

ZE series enclosed limit switches feature large switching capacity and long service life, with a mechanical life of 10 million operations minimum. Rated: 15A @ 125 and 250VAC, and 10A @ 480VAC. Sealed die-cast housing with side mounting design. Operating temperature range: -14°F to +176°F. Dimensions 3.4W x 1.0"D (86W x 25.4mmD); for height, see table below. Meets IEC enclosure IP65 classification and NEMA enclosure types 1, 2, 3, 4, and 5. UL recognized, CSA certified.



OMRON
INDUSTRIAL AUTOMATION



7

Coil Spring

Mfg. Part No.	Height	Actuator Type	O.F.*	Stock No.	Price Each
ZE-N-2S	2.8" (71)	Pin Plunger	800g	52F4216	42.55
ZE-N22-2S	2.9" (74)	Roller Plunger	500g	52F4217	56.95
ZE-NA2-2S	2.9" (74)	Roller Lever	640g	52F4218	54.85
ZE-NJ-2S	4.0" (101)	Coil Spring	150g	18M7860	56.05

* O.F. = Operating Force
(3033)



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(148833)

SWITCHES – LIMIT

COMPACT PRE-WIRED
ENCLOSED SWITCHES

D4C series limit switches feature rugged die-cast housing and triple-sealed construction for harsh environments. Accept loads of up to 5A @ 250VAC. Units come pre-wired with 9.8' (3M) of SJTW cable. Slim profile body: 1.96H x 1.57W x 0.62"D (50H x 40W x 16mmD) for easy gang-mounting. Mechanical life: 10 million cycles minimum. Meets IP67 and NEMA types 3, 4, and 13. UL listed, CSA certified.



OMRON
INDUSTRIAL AUTOMATION



Roller Lever

Mfg. Part No.	Actuator Type	Operating Force	Stock No.	Price Each
				1-14
● D4C-1601	Pin Plunger	1.2kg	18M7247	82.84
● D4C-1602	Roller Plunger	1.2kg	18M7248	82.84
● D4C-1603	Cross Roller Plunger	1.2kg	18M7249	82.84
● D4C-1620	Roller Lever	580g	18M7250	101.44
● D4C-1631	Sealed Pin Plunger	580g	37B9883	125.17

(3025)

DIRECT-OPENING SNAP
ACTION LIMIT SWITCHES

D4B series limit switches feature direct-opening mechanism. Positive action switching assures contact opening even if contact welding occurs. SPDT (1 NC, 1 NO) contact configuration rated 10A @ 480VAC. Die-cast housing with 4-position head. Mechanical life: 30 million cycles minimum. 1/2" NPT conduit opening. Selectable operation: CW, CCW, and CW+CCW. IP67 and NEMA 3, 4, 4x, 6P, and 13. UL recognized, CSA certified, CE compliant. TUV approved except **mfg. part no. D4B-3181N**.



OMRON
INDUSTRIAL AUTOMATION



Roller Lever

Mfg. Part No.	Actuator Type	Operating Force	Stock No.	Price Each
				1-5
● D4B-3113N	Adjustable Roller Lever (2" Diameter Rubber)	740gf	52F4224	83.93
● D4B-3116N	Adjustable Roller Lever (0.69" Diameter Nylon)	960gf	27M2334	98.60
● D4B-3117N	Adjustable Rod Lever (5.9"L)	2.12N	27M2335	92.79
● D4B-3171N	Roller Top Plunger	18.63N	52F4228	83.57
● D4B-3181N	Wobble Stick (Coil Spring 4.5"L)	1.47N	52F4229	86.59
D4B-1171N	Top Roller Plunger	18.63N	73C7039	67.23

(3027)

WL SERIES ROBUST GENERAL-
PURPOSE LIMIT SWITCHES

- Rugged Diecast Housing
- High Mechanical Strength
- Oiltight, Waterproof, Dustproof Construction



OMRON
INDUSTRIAL AUTOMATION



Roller Lever

UL listed, CSA certified, CE compliant, TUV and Swiss approved.

Mfg. Part No.	Actuator	Stock No.	Price Each
			1-14
● WLCA2-TS	Roller Lever, Short (38mm Radius)	18M7818	78.63
● WLCA12-TS	Adjustable Roller Lever	35C0654	91.80
● WLCL-TS	Adjustable Rod Lever (140mm)	35C0656	85.38
● WLD-TS	Top Plunger	35C0657	78.63
● WLNJ-TS	Coil Spring, 6.5mm Diameter	18M7819	96.39

ACCESSORIES

● WL-1A100	Lever for mfg. part no. WLCA2-TS	18M7817	13.48
● WL-2A100	Lever for mfg. part no. WLCA12-TS	35C0652	18.23
● WL-4A100	Lever for mfg. part no. WLCL-TS	35C0653	21.97

(69560)

DIVERSE GENERAL
PURPOSE LIMIT SWITCHES

- Oiltight, Watertight Construction Meets NEMA 3, 4, 4x, 6P and 13
- Convenient Front Mounting, Easy Installation and Maintenance
- Wide Temperature Range: -40°C to 100°C (-40°F to 212°F)
- UL Listed, CSA Certified



OMRON
INDUSTRIAL AUTOMATION



Standard Side Rotary

Mfg. Part No.	Description	Contacts	Stock No.	Price Each
				1-14
● D4A-1101N	Standard Side Rotary	SPDT Double Break	35C0456	75.68
● D4A-1103N	Low Torque Side Rotary	SPDT Double Break	35C0457	86.82
● D4A-1116N	Wobble Lever Type, Coil Spring	SPDT Double Break	35C0458	100.45
● D4A-2501-N	Standard Side Rotary	DPDT Double Break	92B4196	126.78
● D4A-2918-N	Center Neutral Operation	DPDT Double Break	50B6285	137.48

LEVERS FOR D4A-N SIDE ROTARY SWITCHES

Mfg. Part No.	Description	Stock No.	Price Each
			1-14
● D4A-A00	Standard Roller Levers, Front Mount	18M7236	19.13
● D4A-C00	Adjustable Roller Lever, Front Mount	35C0454	20.62
● D4A-D00	Adjustable Rod Lever	18M7237	19.13

(69561)

9007C LIMIT SWITCHES

- Rated NEMA 6P and UL Type 6P
- Heavy-Duty Industrial SPDT Double-Break Contacts
- Rated 10A @ 600VAC/DC Continuous Current
- 4-Position Indexing Head
- Plungers Have a Pre-Travel of 0.08" and a Total Travel of 0.25"
- Standard Lever Arm Units Have a Pre-Travel of 10° and Total Travel of 90°
- Low differential units have a pre-travel of 5° and a total travel of 90°
- Lever arms and replacement parts ordered separately

Standard Box Switch
with 2 1/4" Roller Lever

SQUARE D
Schneider Electric



STANDARD BOX PLUG-IN TYPES

Mfg. Part No.	Circuitry	Style	Actuator	Stock No.	Price Each
9007C54A2	DPST-1NO/1NC	Lever Arm	Low Differential	17B1398	216.18
9007C54B2	DPST-1NO/1NC	Lever Actuator	Std. Pre-Travel	16F2866	201.77
9007C54C	DPST-1NO/1NC	Lever Actuator	Maint. Contact	17B1421	245.00
9007C54D	DPST-1NO/1NC	Top Plunger Actuator	Roller Plunger	96F3437	238.27
9007C54F	DPST-1NO/1NC	Side Plunger	Roller Plunger	17B1427	262.29
9007C54G	DPST-1NO/1NC	Side Plunger	Push Rod	17B1430	238.27
9007C62A2	4PST-2NC/2NO	Lever Actuator	Low Differential	17B1445	255.58
9007C62B2	4PST-2NC/2NO	Lever Actuator	Std. Pre-Travel	16F2867	245.00
9007C68T10	4PST-2NC/2NO	Lever Actuator	Std. Pre-Travel	17B1475	255.58

COMPACT BOX PLUG-IN TYPES

9007C52B2	DPST-1NO/1NC	Lever Actuator	Std. Pre-Travel	17B1379	201.77
9007C52D	DPST-1NO/1NC	Top Plunger Actuator	Roller Plunger	17B1381	238.27
9007C52E	DPST-1NO/1NC	Top Plunger Actuator	Push Rod	66F3456	223.86

* Neutral Position
(2734)

LIMIT SWITCH LEVER ARMS
AND REPLACEMENT PARTS

SQUARE D
Schneider Electric

LEVER ARM WITH OPERATOR WHEEL - 0.63" DIA X 0.25" WIDE

Mfg. Part No.	Style	Length (in)	Material	Stock No.	Price Each
9007BA1	Standard Lever	1.38	Cast Zinc	17B1201	21.08
9007MA1	Standard Lever	1.5	Cast Zinc	17B1615	21.08
9007CA1	Standard Lever	2	Cast Zinc	17B1272	34.90
9007DA1	Standard Lever	2.5	Cast Zinc	17B1489	34.90
9007EA1	Standard Lever	3	Cast Zinc	17C9918	34.90
9007KA1	Offset Lever	2	Cast Zinc	17B1588	34.90

LEVER ARM WITH OPERATOR WHEEL - 0.75" DIA X 0.25" WIDE

9007MA11	Standard Lever	1.5	Cast Zinc	16F2868	21.08
9007CA11	Standard Lever	2	Cast Zinc	17C9883	34.90
9007DA11	Standard Lever	2.50	Cast Zinc	17B1492	34.21
9007EA11	Standard Lever	3	Cast Zinc	17B1521	34.90
9007MA18	Standard Lever	1.5	Nylon	17B1622	21.08

➔ CONTINUED ➔

SWITCHES – LIMIT • SWITCHES – PILOT LIGHTS

LIMIT SWITCH LEVER ARMS AND REPLACEMENT PARTS (CONT.)

ADJUSTABLE LENGTH LEVER ARMS (ADJ. FROM 0.88" TO 4.0")

Mfg. Part No.	Description	Dimensions (in.)		Material	Stock No.	Price Each
		Diameter	Width			
9007HA1	Nonbendable	0.63	0.25	Cast Zinc	17B1566	34.90
9007HA2	Nonbendable	0.63	0.63	Cast Zinc	17B1567	34.90
9007HA4	Nonbendable	0.63	0.25	Nylon	17C9920	34.90
9007HA5	Bendable	0.63	0.25	Cast Zinc	17B1576	34.90
9007HA22	Nonbendable	1.00	0.63	Nylon	17B1570	49.00

ROD TYPE LEVER ARMS

Mfg. Part No.	Description	Length (in)	Stock No.	Price Each
9007FA1	Stainless Steel Rod	10	17B1544	34.90
9007FA3	Spring Rod, Steel	12	17B1547	34.90
9007FA5	Spring Rod, Delrin	12	17B1548	49.00
9007FA6	Looped Delrin Rod Arm	...	17B1549	34.90

REPLACEMENT HEADS

Mfg. Part No.	Description	Stock No.	Price Each
9007A	Lever Arm, Low Differential	88F4214	78.40
9007B	Lever Arm, Standard Pre-Travel	17B1200	63.70
9007C	Lever Arm, Maintained	17B1270	105.83
9007D	Top-Roller Plunger	17B1487	98.98
9007L	Cat Whisker	17B1600	28.13
9007N	Lever Arm, Extra-Light Torque	17B1663	105.83

REPLACEMENT STANDARD BOX PLUG-IN UNIT LESS HEAD

Mfg. Part No.	Contacts	Stock No.	Price Each
9007C054	1 N.O. and 1 N.C.	17B1313	131.31
9007C062	2 N.O. and 2 N.C.	17B1326	157.77

REPLACEMENT STANDARD BOX PLUG-IN RECEPTACLE ONLY

Mfg. Part No.	Contacts	Stock No.	Price Each
9007CT54	1 N.O. and 1 N.C.	17B1365	28.23
9007CT62	2 N.O. and 2 N.C.	17B1370	28.23

(80120)

EZ-LIGHT™
INDICATOR LIGHTS

Just Added



more sensors, more solutions


Features:

- Offers a single-unit alternative to panel indicators, post, and stack lights
- IEC IP69K, depending on installation
- Rugged, solid-state design eliminates bulb replacement
- Compatible with PLC or other logic-level control outputs

Specifications:

- M18 and T18 models: 18mm threaded barrel
- T30 model: 30mm threaded barrel
- K50L models: 30mm threaded barrel base mount
- T8L models: 8mm barrel mount
- K30L models: 22mm threaded base mount
- K80L models: Flat or DIN mount
- 7-function models provide three colors, flash and alternate
- General purpose models provide three colors
- 4-Pin pigtail Euro-Style quick-disconnect (T8L), 5-pin Micro-Style quick-disconnect (AC models) or 4-pin integral Euro-Style quick-disconnect (all others)
- Order EZ-LIGHT™ quick disconnect (QD) cables separately on page 1845

EZ-LIGHT MULTI-COLOR GENERAL PURPOSE

Mfg. Part No.	Input Type	Housing Style	Mounting Barrel	Supply Voltage	Light Functions	Stock No.	Price Each
							1-9
M18GRYNQ	NPN	In-Line	18mm	10 to 30VDC	Green/Red/Yellow	78K8522	89.64
M18GRYPQ	PNP	In-Line	18mm	10 to 30VDC	Green/Red/Yellow	78K8523	85.50
T18GRYNQ	NPN	Right-Angle	18mm	10 to 30VDC	Green/Red/Yellow	56K8210	75.85
T18GRYPQ	PNP	Right-Angle	18mm	10 to 30VDC	Green/Red/Yellow	26K9306	71.71
T8LGRXNPQ	NPN	Right-Angle	18mm	10 to 30VDC	Green/Red	51M6670	46.51

➔ CONTINUED ➔

EZ-LIGHT™ INDICATOR LIGHTS (CONT.)

Mfg. Part No.	Input Type	Housing Style	Mounting Barrel	Supply Voltage	Light Functions	Stock No.	Price Each
T8LGRXNPQ	PNP	Right-Angle	18mm	10 to 30VDC	Green/Red	51M6672	43.34
T30GRYNQ	NPN	Right-Angle	30mm	10 to 30VDC	Green/Red/Yellow	78K9907	96.53
T30GRYPQ	PNP	Right-Angle	30mm	10 to 30VDC	Green/Red/Yellow	78K9909	92.40
K30LGRYNQ	NPN	30mm Dome	22mm	10 to 30VDC	Green/Red/Yellow	06R5551	58.14
K30LGRYPQ	PNP	30mm Dome	22mm	10 to 30VDC	Green/Red/Yellow	89M4775	54.97
K50LGRYNQ	NPN	50mm Dome	30mm	18 to 30VDC	Green/Red/Yellow	20M0538	107.57
K50LGRYPQ	PNP	50mm Dome	30mm	18 to 30VDC	Green/Red/Yellow	20M0539	103.43
K80LGRYNQ	PNP	50mm Dome	DIN Rail	18 to 30VDC	Green/Red/Yellow	96M3326	99.36
K80LGRYPQ	NPN	50mm Dome	DIN Rail	18 to 30VDC	Green/Red/Yellow	51M5471	96.19
K50LGRYA120Q	PNP	50mm Dome	30mm	85 to 130VAC	Green/Red/Yellow	96M3291	93.02
K80LGRYA120Q	NPN	50mm Dome	DIN Rail	85 to 130VAC	Green/Red/Yellow	06R5552	108.88

EZ-LIGHT MULTI-COLOR 7-FUNCTION

M18GRY2NQ	NPN	In-Line	18mm	10 to 30VDC	Green/Red/Yellow	20M0542	103.43
M18GRY2PQ	PNP	In-Line	18mm	10 to 30VDC	Green/Red/Yellow	26K9305	99.29
T30GRY2NQ	NPN	Right-Angle	30mm	10 to 30VDC	Green/Red/Yellow	20M0543	110.32
T30GRY2PQ	PNP	Right-Angle	30mm	10 to 30VDC	Green/Red/Yellow	26K9307	106.19
K50LGRY2NQ	NPN	50mm Dome	30mm	18 to 30VDC	Green/Red/Yellow	20M0540	122.74
K50LGRY2PQ	PNP	50mm Dome	30mm	18 to 30VDC	Green/Red/Yellow	20M0541	117.22
K80LGRY2PQ	PNP	50mm Dome	DIN Rail	18 to 30VDC	Green/Red/Yellow	51M5472	106.76
K80LGRY2NQ	NPN	50mm Dome	DIN Rail	18 to 30VDC	Green/Red/Yellow	96M3328	109.93

4-PIN EURO-STYLE QUICK DISCONNECT CABLES (DC MODELS)

Mfg. Part No.	Style	Length (m)	Stock No.	Price Each
				1-9
MQDC-406	Straight	2	02H6726	19.03
MQDC-415	Straight	5	02H6728	22.20
MQDC-430	Straight	9	02H6730	35.94

5-PIN MICRO-STYLE QUICK DISCONNECT CABLES (AC MODELS)

MQVR3S-506	Straight	2	34K8143	33.83
MQVR3S-515	Straight	5	23K7652	43.34
MQVR3S-530	Straight	9	34K8146	63.42

(83344)

22mm
PILOT LIGHTS

Just Added



Features:

- Quick installation with modular construction
- Mounting base included with operators
- Notched hole mounting with anti-rotation tab

Specifications:

- LED rating: 100,000 hours of expected life in high vibration environments
- Heavy duty construction UL NEMA type 4X/13 and IP67 and IP69K on front of panel



Illuminated Pilot Light



LED Light Unit

NOTE: LED light unit and optional legend plate must be added to illuminated pilot lights.

ILLUMINATED PILOT LIGHTS

Mfg. Part No.	Lens Color	Stock No.	Price Each
			1-9
M22-L-W	White	10R1835	11.35
M22-L-R	Red	10R1834	11.35
M22-L-G	Green	10R1833	11.35
M22-L-Y	Yellow	10R1836	11.35
M22-L-B	Blue	10R1832	11.35

➔ CONTINUED ➔

SWITCHES – PILOT LIGHTS

22mm PILOT LIGHTS (CONT.)

LED LIGHT UNITS

Mfg. Part No.	Lens Color	Stock No.	Price Each
M22-LED-W	White, 12-30VAC/VDC	10R1840	27.56
M22-LED-R	Red, 12-30VAC/VDC	10R1839	27.56
M22-LED-G	Green, 12-30VAC/VDC	10R1838	27.56
M22-LED230-W	White, 85-264VAC/VDC, 50/60Hz	10R1852	27.56
M22-LED230-R	Red, 85-264VAC/VDC, 50/60Hz	10R1851	27.56
M22-LED230-G	Green, 85-264VAC/VDC, 50/60Hz	10R1850	27.56

(148565)

16mm PILOT LIGHTS



Round, Amber



Square, Red

Mfg. part no. LA1P-C104 pilot light includes 24V LED lamp. Mounting hole: 0.638" (16.2mm). Quick-connect/solder terminals: 0.110". Solder-tab terminal. UL recognized, CSA certified and CE compliant.

Mfg. Part No.	Shape	Color	Stock No.	Price Each		
				1-24	25-49	50-99
● LA1P-1C04-A	Round	Amber	74K3842	13.62	12.14	11.47
● LA1P-1C04-G	Round	Green	74K3843	13.62	12.14	11.47
● LA1P-1C04-R	Round	Red	74K3844	13.62	12.14	11.47
● LA2P-1C04-R	Square	Red	80K5953	13.62	12.14	11.47

(52183)

30mm PILOT LIGHTS

- Extended lens
- Screw terminal
- Full-voltage type
- Incandescent lamp
- Include lens, lamp, operator, plus transformer
- Rated NEMA 1, 2, 3, 3R, 4, 4X, 5, 12, 13, IP65



Mfg. Part No.	Primary Type	Voltage	Color	Stock No.	Price Each		
					Each	2-5	6-10
● APD199N-G-24V	Full Voltage	24VAC/DC	Green	74K3666	32.91	32.56	31.70
● APD199N-R-24V	Full Voltage	24VAC/DC	Red	74K3668	32.91	32.56	31.70
● APD199N-G-24V	Full Voltage	24VAC/DC	Green	74K3666	32.91	32.56	31.70
● APD199N-G-120V	Full Voltage	120VAC	Green	74K3665	32.91	32.56	31.70
● APD199N-R-120V	Full Voltage	120VAC	Red	74K3667	32.91	32.56	31.70
● APD1126N-G	Transformer	120VAC	Green	96F3793	40.47	40.05	38.99

(3440)

22mm PILOT LIGHTS

- Dome lens
- Screw terminal
- Full voltage
- Include lens, lamp and operator



Mfg. Part No.	Voltage	Style	Color	Stock No.	Price Each		
					1-14	15-24	25-49
● APW299-R-24V	24VDC	Incandescent	Red	74K3670	18.91	16.90	15.40
● APW299-A-24V	24VDC	Incandescent	Amber	15C2773	17.99	17.41	16.23
● APW299-G-24V	24VDC	Incandescent	Green	74K3669	18.91	16.90	15.40
● APW299D-G-24V	24VAC/DC	LED	Green	74K3673	34.29	32.37	30.54
● APW299D-R-24V	24VAC/DC	LED	Red	74K3675	21.71	19.40	17.67
● APW299D-R-120V	120VAC/DC	LED	Red	74K3674	22.83	20.40	18.58
● APW299D-G-120V	120VAC/DC	LED	Green	74K3672	22.83	20.40	18.58
● APW299D-A-120V	120VAC/DC	LED	Amber	74K3671	22.83	20.40	18.58

(3429)

22mm LED PILOT LIGHTS



Flush Style, Plastic Bezel



Dome Style w/Transformer, Plastic Bezel

- LED or incandescent lamps
- Round flush or domed lenses

- Meets IEC IP65 and NEMA 4, 4X, 13 ratings
- Plastic or nickel-plated aluminum bezel

All units shown are for use with LED lamps. May be mounted in Idec's one-to-five hole enclosures; go online or call. Incandescent lamps also available; go online or call. UL listed, CSA certified, CE compliant, and TUV approved.

120VAC TRANSFORMERS

Mfg. Part No.	Style	Color	Bezel	Stock No.	Price Each		
					Each	2-5	6-10
● HW1P-2FH2D-G	Dome	Green	Plastic	74K3778	36.23	33.01	30.24
● HW1P-2FH2D-R	Dome	Red	Plastic	74K3779	56.17	53.10	50.03
● HW4P-2FH2D-G	Dome	Green	Metal	74K3796	37.39	34.06	31.21
● HW4P-2FH2D-R	Dome	Red	Metal	74K3797	37.39	34.06	31.21
● HW4P-2FH2D-A	Dome	Amber	Metal	74K3795	37.39	34.06	31.21
● HW1P-1FH2D-G	Flush	Green	Plastic	74K3773	36.23	33.01	30.24
● HW4P-1FH2D-G	Flush	Green	Metal	74K3791	37.39	34.06	31.21
● HW4P-1FH2D-R	Flush	Red	Metal	74K3792	37.39	34.06	31.21
● HW4P-1FH2D-A	Flush	Amber	Metal	92C3163	37.39	34.06	31.21

24VAC/VDC FULL VOLTAGES

Mfg. Part No.	Style	Color	Bezel	Stock No.	18.79	18.14	16.99
● HW1P-2FQD-G-24V	Dome	Green	Plastic	74K3780	18.79	18.14	16.99
● HW1P-2FQD-R-24V	Dome	Red	Plastic	74K3781	18.79	18.14	16.99
● HW1P-2FQD-A-24V	Dome	Amber	Plastic	78K8185	18.79	18.14	16.99
● HW4P-2FQD-G-24V	Dome	Green	Metal	78K5280	20.44	18.62	17.06
● HW4P-2FQD-R-24V	Dome	Red	Metal	92C3174	20.44	18.62	17.06
● HW4P-2FQD-A-24V	Dome	Amber	Metal	74K3798	20.44	18.62	17.06
● HW1P-1FQD-G-24V	Flush	Green	Plastic	74K3776	18.79	18.14	16.99
● HW1P-1FQD-R-24V	Flush	Red	Plastic	74K3777	18.79	18.14	16.99
● HW1P-1FQD-A-24V	Flush	Amber	Plastic	74K3775	18.79	18.14	16.99
● HW4P-1FQD-G-24V	Flush	Green	Metal	74K3793	20.44	18.62	17.06
● HW4P-1FQD-R-24V	Flush	Red	Metal	74K3794	20.44	18.62	17.06
● HW4P-1FQD-A-24V	Flush	Amber	Metal	75K7561	20.44	18.62	17.06

(13242)

30mm PILOT LIGHTS



Schneider Electric

- 30mm Pilot Lights Include Light Modules with Lamps

30mm round pilot lights feature choice of red or green fresnel cap. 24VAC/DC units are full voltage, 110VAC units are transformer type. Fingersafe® terminals. JXPA series square versions are also available. Go online or call. UL listed, CSA certified, CE compliant.

NEMA 4, 13 CHROME BEZEL

Mfg. Part No.	Color	Voltage	Stock No.	Price Each	
				Each	2-4
9001KP35R31	Red	24-28VAC/DC	16B9270	139.22	127.87
9001KP35G31	Green	24-28VAC/DC	14C7457	139.22	127.87
9001KP1G31	Green	110-120VAC	16B9240	170.40	156.50

NEMA 4X BLACK BEZEL

Mfg. Part No.	Color	Voltage	Stock No.	Price Each	
				Each	2-4
9001SKP35R31	Red	24-28VAC/DC	17B393	139.22	127.87
9001SKP35G31	Green	24-28VAC/DC	17B388	139.22	127.87
9001SKP1R31	Red	110-120VAC	17B377	170.40	156.50
9001SKP1G31	Green	110-120VAC	17B374	170.40	156.50

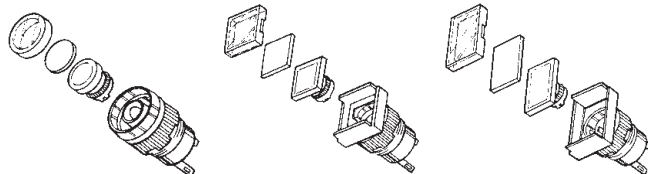
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Expert technical support

(148838)

Chat online to our team of engineers, or connect to them through your representative.

SWITCHES – PILOT LIGHTS, PRESSURE, PULL CHAIN & PUSHBUTTON SUBMINIATURE

COMMAND SERIES
164 & 165 PILOT
LIGHT INDICATORSTyco
Electronics

164EZ

164SZ

164TZ

Non-oil-tight indicators (164 series) and oil-tight indicators (165 series) match the appearance of all Command Series pushbutton switches. Lamp dissipation: 1.2W max. Panel hole: 0.625" (15.8). Dielectric strength: 1,500VAC. Insulation resistance: greater than 100MΩ. Temperature range: -20°C to +50°C. UL recognized. Order lens button sets separately on page 1743. Order T-1/4 midjet flange base lamps separately; go online or call.

Mfg. Part No.	Description	Stock No.	Price Each			
			1-24	25-49	50-99	100-249
164-TZ	Rectangular Pilot Light	57M9999	8.99	8.24	7.61	7.06

(4700)

ADJUSTABLE MINIATURE
PRESSURE AND VACUUM
SWITCHES

Features:

- Low pressure and vacuum switches have brass ports
- High pressure units are zinc plated carbon steel
- Available with either 18" flying leads or DIN electrical connections

Specifications:

- Contact rating: 5A at 12/24VDC and 120/240VAC
- Repeatability: 2%
- Circuitry: SPDT
- Port: 1/4 NPT
- NEMA 4 rated; IP65 rated



Wire Leads

DIN Connector

- Electrical termination: DIN 43605A w/ 9mm cable clamp (HC) or flying leads (FL)



Our Experience • Your Solution

LOW PRESSURE

Mfg. Part No.	Pressure Range (psi)	Termination	Stock No.	Price Each
PS41-10-4MNB-C-HC	3-7	Connector	42M0460	41.00
PS41-10-4MNB-C-FL18	3-7	Wire Leads	42M0459	31.00
PS41-20-4MNB-C-HC	5-30	Connector	42M0462	41.00
PS41-20-4MNB-C-FL18	5-30	Wire Leads	42M0461	31.00
PS41-30-4MNB-C-HC	25-100	Connector	42M0464	41.00
PS41-30-4MNB-C-FL18	25-100	Wire Leads	42M0463	31.00

HIGH PRESSURE

PS71-10-4MNZ-C-HC	10-30	Connector	39M3515	70.00
PS71-10-4MNZ-C-FL18	10-30	Wire Leads	42M0465	59.00
PS71-20-4MNZ-C-HC	25-75	Connector	42M0467	70.00
PS71-20-4MNZ-C-FL18	25-75	Wire Leads	42M0466	59.00
PS71-30-4MNZ-C-HC	65-300	Connector	42M0469	70.00
PS71-30-4MNZ-C-FL18	65-300	Wire Leads	42M0468	59.00
PS71-40-4MNZ-C-HC	250-1000	Connector	42M0471	70.00
PS71-40-4MNZ-C-FL18	250-1000	Wire Leads	42M0470	59.00
PS71-50-4MNZ-C-HC	1000-3000	Connector	42M0473	70.00
PS71-50-4MNZ-C-FL18	1000-3000	Wire Leads	42M0472	59.00
PS71-60-4MNZ-C-HC	2500-5000	Connector	42M0475	70.00
PS71-60-4MNZ-C-FL18	2500-5000	Wire Leads	42M0474	59.00

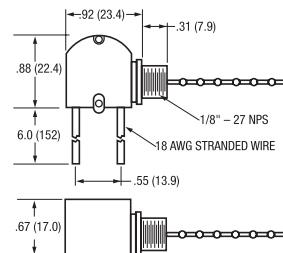
VACUUM

Mfg. Part No.	Pressure Range (Hg)	Termination	Stock No.	Price Each
PS82-10-4MNB-C-HC	5-15"	Connector	42M0477	46.00
PS82-10-4MNB-C-FL	5-15"	Wire Leads	42M0476	35.00
PS82-20-4MNB-C-HC	12-30"	Connector	42M0479	46.00
PS82-20-4MNB-C-FL	12-30"	Wire Leads	42M0478	35.00

(91191)

PULL CHAIN
SWITCH

- Contact Rating: 6A @ 125VAC
- SPST
- UL Recognized, CSA Certified



18-gauge, 6" stripped wire leads. Mounting hole: 1 1/2" diameter.

Mfg. Part No.	Material	Action	Stock No.	Price Each	
				1-24	25-99
SPC21175	Brass Brushing	Off-On	11M0369	2.35	2.02

(5156)

C&K EP SERIES SEALED TINY
PUSHBUTTON SWITCHES

Just Added



Fig. 1



Fig. 2



Fig. 3



Fig. 4

Features:

- Sealed against solder and cleaning processes
- Thru-hole and surface mount models
- Snap-fitting actuator accepts standard caps
- Tape and reel packaging available
- Ideal for telecommunications equipment, computers and peripherals, instrumentation and controls

Specifications:

- Rating: 0.4VA max. at 20VAC or DC max
- Operating temperature: -30°C to +85°C
- Actuator: Gf nylon or polyester with internal O-ring seal (UL 94V-0)
- Case and bushing: Gf nylon (UL 94V-0)
- Contacts and terminals: Copper alloy with gold plate over nickel plate
- Epoxy seal
- Pitch spacing: 2.54mm
- Switch support: Brass, tin plated
- Sealed to IP57 specifications

PC TERMINAL – FIG. 1

Mfg. Part No.	Circuitry	Action	Stock No.	Price Each	
				1-24	25-99
EP11SD1CBE	SPST	Off-(On)	46F1758	3.81	3.58
EP12SD1CBE	SPDT	On-(On)	46F1759	4.60	4.32
EP21SD1CBE	DPST	Off-(On)	96F1534	6.99	6.56

PC TERMINALS – RIGHT-ANGLE MOUNT

EP11SD1ABE	SPST	Off-(On)	46F1760	4.10	3.85
EP12SD1ABE	SPDT	On-(On)	46F1747	4.90	4.60
EP21SD1ABE	DPST	Off-(On)	96F1535	7.54	7.08

PC TERMINALS – VERTICAL RIGHT-ANGLE MOUNT – FIG. 2

EP11SD1AVBE	SPST	Off-(On)	46F1748	4.24	3.98
EP12SD1AVBE	SPDT	On-(On)	46F1749	5.04	4.73
EP21SD1AVBE	DPST	Off-(On)	96F1536	7.75	7.28

PC TERMINALS – SUPPORT BRACKET – FIG. 3

EP11SD1V3BE	SPST	Off-(On)	46F1750	4.10	3.85
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SURFACE MOUNT – EXTENDED ACTUATOR – FIG. 4

EP12SD1SABE	SPDT	On-(On)	89M5781	6.74	6.39
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PC TERMINALS – FLUSH PLUNGER – FIG. 5

EP11FPD1ABE	SPST	Off-(On)	01C7015	4.10	3.85
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PC TERMINALS – FLUSH PLUNGER – VERTICAL RIGHT-ANGLE MOUNT

EP11FPD1AVBE	SPST	Off-(On)	08C6082	5.41	5.12
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(148843)

SWITCHES – PUSHBUTTON SUBMINIATURE

C&K TP SERIES TINY PUSHBUTTON SWITCHES

Just Added



Fig. 1



Fig. 2



Fig. 3



Fig. 4

Features:

- Subminiature size—capable of switching 1 AMP
- Vertical & right angle terminations
- PC & panel mount models
- Snap-in front panel mounting available

- Epoxy terminal seal-compatible with bottom wash cleaning
- RoHS compliant models available

Specifications:

- Contact rating: "B" contact material: 0.4VA max. at 20 VAC or DC max; "Q" contact material: 1A at 120 VAC or 28VDC
- Operational life (at full load): TP11: 60,000 cycle; TP12: 30,000 cycles
- Contact resistance: Below 20 mΩ typ.
- Insulation resistance: 109Ω min.
- Dielectric strength: 1000Vrms min. at sea level
- Operating temperature: -30##UndeTag-786##C to 85##UndeTag-786##C
- Solderability: Per MIL-STD-202F method 208D, or EIA RS-186E method 9 (1 hour steam aging)

SOLDER TERMINALS — FIG. 1

Mfg. Part No.	Circuitry	Action	Actuator	Stock No.	Price Each	
					1-24	25-99
● TP11SHZBE	SPST	Off-(On)	Flat, threaded	92B6851	7.34	7.00
● TP11J812QE22	SPST	Off-(On)	Snap-in w/Frame	08C8160	8.50	8.11
● TP11LTZQE	SPST	Off-(On)	Flat, threaded	90B3275	7.92	7.56
● TP12SHZQE	SPDT	On-(On)	Flat, threaded	81F965	5.31	5.09
● TP21SHZQE	DPST	Off-(On)	Flat, threaded	44F3144	10.43	9.97

VERTICAL MOUNTING PC TERMINALS

● TP11SHCQE	SPST	Off-(On)	Flat, threaded	96B3493	7.45	7.11
● TP11SH9CBE	SPST	Off-(On)	Flat, unthreaded	96F1761	4.58	4.38
● TP12SH9CBE	SPDT	On-(On)	Flat, unthreaded	96F1762	12.51	11.96

RIGHT-ANGLE MOUNTING PC TERMINALS — FIG. 2

● TP11MS9ABE	SPST	Off-(On)	Round	94F9163	4.13	3.94
● TP11SH8ABE	SPST	Off-(On)	Round, unthreaded	21F629	4.80	4.59
● TP11SH9ABE	SPST	Off-(On)	Flat, unthreaded	96F1764	4.40	4.20
● TP12SH8ABE	SPDT	On-(On)	Round, unthreaded	88F3008	6.16	5.93

VERTICAL RIGHT-ANGLE MOUNTING PC TERMINALS — FIG. 3

● TP11SH9AVBE	SPST	Off-(On)	Flat, unthreaded	96F1765	4.80	4.59
● TP12SH9AVBE	SPDT	On-(On)	Flat, unthreaded	81F967	6.16	5.93
● TP12-SH8-AV-B-E	SPDT	On-(On)	Round, unthreaded	66F5937	6.16	5.93

SUPPORT BRACKET PC TERMINALS — FIG. 4

● TP12SH9V3BE	SPDT	On-(On)	Flat, unthreaded	81F968	6.13	5.90
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(4935)

C&K 8600 SERIES MICROMINIATURE PUSHBUTTON SWITCHES

Just Added

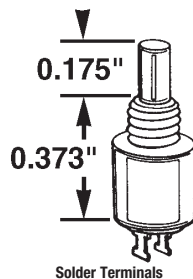


Features:

- Available with overtravel
- Normally closed models available
- Microminiature size ideal for applications where space is limited
- RoHS compliant

Specifications:

- Contact rating: Q contact material (8631, 8632): 500mA at 120VAC or 28VDC; 250mA at 250VAC; (8633): 250mA at 120VAC or 28VDC; 125mA at 250VAC
- Electrical life (at full load): 8631 and: 250,000 cycles; 8632: 100,000 cycles
- Contact resistance: Below 30mΩ typ.
- Insulation resistance: 109Ω min
- Dielectric strength: 500Vrms min. at sea level
- Contacts and terminals: Copper alloy with gold plate over nickel plate.
- Actuator: Black Gf nylon (UL 94V-0)
- Bushing: Nickel-plated brass
- Case: Diallyl phthalate or Gf phenolic (UL94V-0), epoxy seal (8633) only
- Panel mount: 0.172" (4.37) diameter hole
- Operating temperature: -30##UndeTag-786##C to 65##UndeTag-786##C
- Solderability: Per MIL-STD-202F method 208D, or EIA RS-186E method 9



Solder Terminals

➤ CONTINUED ➤

C&K 8600 SERIES MICROMINIATURE PUSHBUTTON SWITCHES (CONT.)

SOLDER TERMINALS, SPST

Mfg. Part No.	Action	Stock No.	Price Each		
			1-24	25-99	100-249
● 8631ZQD2	Off-(On)	21F644	5.11	4.90	3.90
● 8631ZBD2	Off-(On)	96F1643	5.28	5.07	3.93
● 8632ZQD2	Off-(On)	21F645	5.11	4.90	3.90
● 8633ZQE2	Off-(On)	21F646	5.32	5.10	4.05
● 8632ZBD2	Off-(On)	96F1644	5.15	4.91	4.04

PC TERMINALS, SPST

● 8631CBD2	Off-(On)	96F1646	5.39	5.17	4.01
● 8631CQD2	Off-(On)	21F647	5.38	5.16	4.00
● 8632CQD2	Off-(On)	21F648	5.38	5.16	4.00

(4953)

P26 SERIES PUSHBUTTON SWITCHES



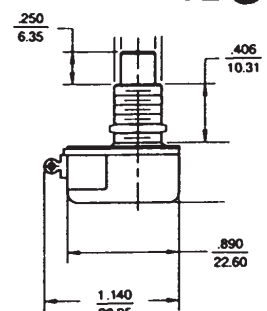
Just Added

Features

- SPST contacts
- Slow make, slow break contacts

Specifications

- Operating temperature: 32°F to 85°F (0°C to +85°C)
- On = Maintained action; () = Momentary action

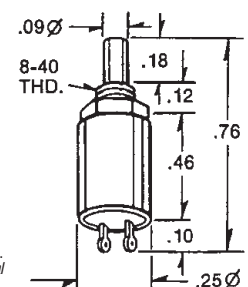


Rated 3A/250VAC, 6A/125VAC, 3/4A/125V. Mounting hole: 0.500" (12.70). Bushing: 0.468" (11.89) length and diameter. Round metal cap. UL recognized, CSA certified. () = momentary.

Mfg. Part No.	Function	Termination	Button	Stock No.	Price Each		
					1-24	25-49	50-99
● P26A-1D-RND-MTL	Off-(On)	Solder Lug	Metal	76K1055	9.62	8.86	8.27
● P26B-1D-RND MTL	Off-(On)	Quick Connect	Metal	63H2385	17.70	15.16	12.71
● P26F-1D-RND MTL	Off-(On)	Wire Leads	Metal	26C0188	14.22	12.18	10.21
● P26L-1D-RND MTL	On-(Off)	Solder Lug	Metal	98B7641	9.62	8.86	8.27

(5122)

SA1 ULTRA-MINIATURE PUSHBUTTON AC AND DC ROUND BASE SWITCH



- Rated 0.75A Resistive @ 125VAC with Normally-Open Contacts; 0.50A Resistive @ 125VAC with Normally-Closed Contacts

Gold-plate copper contacts and terminals, nickel-plate brass case. Thermosetting plastic base. Include one #8-40 nut. Order optional black slip-on cap separately.

Mfg. Part No.	Circuitry	Button Color	Stock No.	Price Each	
				1-24	25-49
● SA1RV20	SPST-NO	Red	16M1404	8.37	7.18
● SA1BW20	SPST-NC	Black	26M8308	8.37	7.18

ACCESSORIES

Mfg. Part No.	Description	Color	Stock No.	Price Each	
				1-24	25-49
● SW53AA2	Slip-On Cap	Black	06M4839	0.72	0.62

(4848)

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(148886)

SWITCHES – PUSHBUTTON SUBMINIATURE

PC MOUNT SWITCHES



32-01



39-251



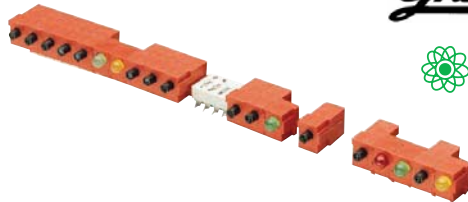
39-503

Mfg. part no. 32-01 pushbutton switches and LEDs interlock and mount on PC board edge. Ideal for reset and status indication applications. 0.200" (5.08) between centers when interlocked. 0.272" (6.91) high and 0.400" (10.16) deep. Assemblies are process compatible. Switches have a N.O. and a N.C. section. Logic loads to 150mA switching for 100,000 operations. **Mfg. part nos. 39-501** and **39-503** are gold contact, momentary switches provide test or cursor key function. Rated 150mA @ 28VDC, 1,000,000 operations. **Mfg. part no. 39-251** has SPDT-2 circuit momentary circuitry for push-to-test PC board functions. **38 Series** surface mount switches, buttons: 0 = 0.020", 4 = 0.215". H = Horizontal to PCB, 1 = Gold contacts, S = O-ring seal. Life: 80,000 make and break cycles. Rating: 0.4VA max @ 20VAC or VDC

Mfg. Part No.	Button	Circuits	Stock No.	Price Each	
				1-24	25-49
● 32-01	Black	SPST/SPDT	97F9135	3.01	2.66
● 39-251 RED	Red	SPST/SPDT	14M6747	3.07	2.72
● 39-251 BLK	Black	SPST/SPDT	14M6746	3.07	2.72
● 39-401 BLK	Black	SPST-N.O., Vertical	11C4321	3.93	3.48
● 39-401 RED	Red	SPST-N.O., Vertical	14M6750	3.93	3.48
● 39-501 RED	Red	SPST-N.O., Right-Angle	14M6753	6.28	5.56
● 39-501 BLK	Black	SPST-N.O., Right-Angle	14M6752	6.28	5.56
38BM-4-H-1-S	Tan	SPST-N.O., Right-Angle	16F7307	8.07	7.31
38BM-0-H-1-S	Tan	SPST-N.O., Right-Angle	11C4291	7.06	6.25
38BC-4-H-1-S	Tan	SPDT-N.O., Right-Angle	02H3366	7.27	6.44
38BC-0-H-1-S	Tan	SPDT-N.O., Right-Angle	02H3365	7.27	6.44

(5044)

SERIES 32 PC MOUNT STACKABLE SWITCH W/LED



- Stackable, provides custom switch arrangements
- .200" centers when stacked
- SPST-NO, SPST-NC circuitry in the same package
- Process compatible, internally sealed plunger
- Status/reset or press-to-test functions with companion LED

- Contact resistance: 25mΩ
- Operating temperature: -40°C to +85°C
- (On) = Momentary action

PUSHBUTTON SWITCH

Mfg. Part No.	Actuator Color	Function	Circuitry	Stock No.	Price Each	
					1-49	50-99
● 32-02	Black	(On)	SPST-NO+SPST-NC	97F9136	2.74	2.67

LEDS

Mfg. Part No.	Color	Intensity (MCD)	Stock No.	Price Each	
				1-49	50-99
● 32LED-RED	Red	5.0	97F9137	1.04	1.01
● 32LED-GRN	Green	3.2	97F9138	1.04	1.01
● 32LED-YEL	Yellow	3.2	97F9139	1.04	1.01

(84956)

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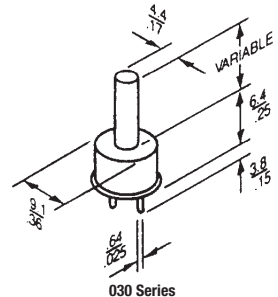
030 AND 034 SERIES ROTARY AND PUSHBUTTON SWITCHES



034 Series



030 Series



030 series features sub-miniature package size (0.36" diameter), multiple positions in a T0-5 can and low energy switch contacts. Glass-to-metal sealed header. Shaft diameter 0.170" (4.318) with flat and slot. Contact rating: 500mA @ 125VAC. Life expectancy: excess of 10,000 operations. **Series 034-550** features gold contacts, PC board mount, and a temperature range of -22°F to +149°F. Circuit: SPST - NO momentary. Contact rating: 100mA 125VAC. Black button.

030 SERIES ROTARY SWITCHES

Mfg. Part No.	Pole	Positions	Shaft Length	Stock No.	Price Each
					1-9
● 030-303-018	Single	3	0.180" (4.572)	95F7244	12.06
● 030-808-005	Single	8	0.050" (1.270)	95F7247	11.35

034 SERIES MINIATURE PCB MOUNT SWITCH

Mfg. Part No.	Button Height	Stock No.	Price Each
			1-9
● 034-550-001	0.060" (1.524)	95F7249	11.73
● 034-550-006	0.250" (6.350)	95F7252	11.73

(5018)

ULTRAMINIATURE PUSHBUTTON SWITCHES - SEALED



Just Added



Features

- Sealed to IP 67
- Gold contacts
- Black pushbutton cap
- Glass filled nylon housing and base
- UL 94V-0 Flammability rating
- Epoxy sealed terminations

Specifications

- Contact Rating - Max.: 0.4VA @ 20V ac/dc
- Mechanical life: 40000 operations
- Contact resistance: <50mR
- Insulation resistance: >500MR
- Operating temperature: -30°C to +85°C
- Dimensions (mm): H = 5.8, W = 7, D = 4.5

Mfg. Part No.	Circuitry	Switch Operation	Stock No.	Price Each
				1-99
● 8US8R2A1M2RE	SPDT	On-(On)	95M3284	1.76
● 8UD8R2A1M2RE	DPDT	On-(On)	95M3283	1.77

(116607)

SUBMINIATURE PUSHBUTTON SWITCH



Fig. 1



Fig. 2



Fig. 3



Fig. 4

- #10-48 Threaded Bushing
- Copper Alloy, Silver Plated Contact Rated 1A at 120VAC or 28VDC, 1A at 250VAC
- Operating Temperature: -30°C to +85°C

Features a black, thermoplastic polyester 0.1 diameter x 0.155" actuator, nickel-plated brass 0.22"-long bushing, epoxy sealed terminals. UL listed and CUL listed.

Mfg. Part No.	Fig.	Circuitry	Switch Function	Term-ination	Stock No.	Price Each		
						1-24	25-99	100-249
● SPC21189*	1	SPST	(On)	Solder Lug	11M0383	5.34	5.10	4.86
● SPC21193	1	SPST	(On)	PCB	11M0387	4.22	4.03	3.84
SPC5071	2	SPST	(On)	Solder Lug	50N398	4.58	4.37	4.17

➤ CONTINUED ➤

SWITCHES – PUSHBUTTON SUBMINIATURE • SWITCHES – PUSHBUTTON MINIATURE

SUBMINIATURE PUSHBUTTON SWITCH (CONT.)

Mfg. Part No.	Fig.	Circuitry	Switch Function	Term-ination	Stock No.	Price Each		
						1-24	25-99	100-249
● SPC21191	3	SPDT	On-(On)	Solder Lug	11M0385	4.94	4.72	4.50
● SPC21195*	3	SPDT	On-(On)	PCB	11M0389	6.10	5.83	5.56

NONTHEADED BUSHING

● SPC21201	2	SPST	(On)	PCB	11M0395	4.58	4.37	4.17
● SPC21203†	3	SPDT	On-(On)	PCB	11M0397	7.38	7.06	6.73
● SPC21204*	3	SPDT	On-(On)	PCB	11M0398	6.10	5.83	5.56
● SPC21197	3	SPDT	On-(On)	Solder Lug	11M0391	4.94	4.72	4.50
● SPC21199†	4	SPST	(On)	PCB	11M0393	6.42	6.14	5.85
● SPC21200†	4	SPST	(On)	PCB	11M0394	6.78	6.48	6.18
● SPC21202†	4	SPST	(On)	PCB	11M0396	6.98	6.67	6.36

* Vertical bracket; ** Vertical bracket, non-threaded bushing; † Black cap, non-threaded bushing.
(34989)

TP SERIES
SUBMINIATURE
PUSHBUTTONS

Just Added

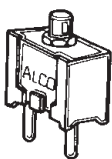
Tyco
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Fig. 1

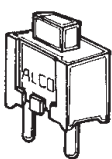


Fig. 2

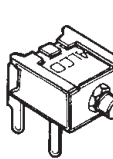


Fig. 3

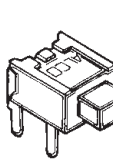


Fig. 4



Fig. 5

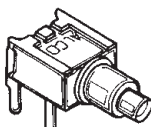


Fig. 6

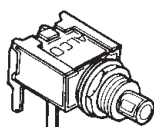


Fig. 7

All are momentary, normally open. Available in straight or right angle PC terminals. Gold-plated contacts rated 0.4VA max. @ 20VDC or peak AC. Dielectric strength: 1000Vrms. -30°C to +65°C. Life expectancy: 1 pole, 100,000 operations; 2 pole, 80,000 operations.

STRAIGHT PC TERMINALS

Mfg. Part No.	Fig.	Circuitry	Bushing Dia.	Color	Actuator Style	Stock No.	Price Each	
							1-24	25-49
● TP11CGPC004	2	SPST-NO	...	Black	Rectangular	69K7043	3.17	2.69
● TPA11CGPC004	1	SPST-NO	...	Black	Round	69K7045	3.35	2.97
● TPB11CGPC004	5	SPST-NO	.188"	Black	Round	69K7046	4.22	3.74
● TPB11FGPC004	5	SPDT	.188"	Black	Round	16M2483	8.73	7.60
TPC13F-0	...	SPDT	19/48	Black	Round	77B9154	18.25	15.51
● TPD11CGPC004	5	SPST-NO	.250"	Black	Round	16M2486	7.49	6.54
● TPF11CGPC004	5	SPST-NO	1/4 -40	Black	Round	16M2488	14.26	12.12
● TPF11FGPC004	5	SPDT	1/4 -40	Black	Round	16M2490	14.10	12.82

RIGHT ANGLE PC TERMINALS

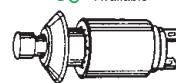
● TP11CGRA004	4	SPST-NO	...	Black	Rectangular	16M2493	3.57	3.17
● TP11CGRA204	4	SPST-NO	...	Red	Rectangular	69K7044	4.62	4.10
● TP11CGRA004	3	SPST-NO	...	Black	Round	16M2481	5.88	5.35
TPA11CG-RA-2	...	SPST-NO	...	Red	Round	77B9063	6.63	5.63
● TPB11CGRA004	6	SPST-NO	.188"	Black	Round	16M2482	5.40	5.13
● TPB11FGRA004	6	SPDT	.188"	Black	Round	16M2484	5.89	5.23
TPB11FGVRA0	...	SPDT	.188"	Black	Round	15H0454	7.18	6.76
● TPC11CGRA004	7	SPST-NO	19/48	Black	Round	16M2485	8.24	7.52
TPC13C0	7	SPST-NO	19/48	Black	Round	13F3658	19.77	16.80
● TPD11CGRA004	6	SPST-NO	.250"	Black	Round	16M2487	9.21	7.82
● TPF11CGRA004	7	SPDT	1/4 -40	Black	Round	16M2489	7.64	6.97
TPF13C0	7	SPST-NO	1/4 -40	Black	Round	13F3660	14.34	13.59

(4763)

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(148857)

MPA-3 SERIES SUB-MINI
PUSHBUTTON SWITCHESTyco
Electronics

Includes cap. Silver-Clad contacts rated 3A @ 125VAC. Bushing: 0.240"L, 1/4-40 UNS 2A. Dia.: 0.350".

Mfg. Part No.	Action	Contacts	Stock No.	Price Each		
				1-24	25-49	50-99
● MPA103B04	Normally Closed	SPST	16M2435	5.31	4.99	4.68
● MPA103D04	Push-On/Push-Off, Tactile	SPDT	16M2437	10.43	9.47	8.68
● MPA103F04	Momentary, Tactile	SPDT	87K0161	11.45	10.41	9.54

(4766)

300 SERIES MINIATURE
PUSHBUTTON SWITCHESAPEM®
APEM COMPONENTS, INC.

SPST momentary action. Contact rating: 3A @ 120VDC or 1.5A @ 250VAC. Operating temperature: -30°C to +85°C. Black nylon actuator. Nickel plated brass bushing. Coin silver contacts. Silver plated brass terminals. Dimensions for 301, 303 and 305 series: 0.370 diameter x 0.429" long. Dimensions for 302 and 304 series: 0.370 diameter x 0.319" long.



301ZQE



301SZQEJ81-22

Mfg. Part No.	Action	Travel	Termination	Stock No.	Price Each
					1-24
● 301ZQE	Off-(On)	.110" Total, .020" Minimum Overtravel	Solder Lug	72C4066	6.17
● 301CQE	Off-(On)	.110" Total, .020" Minimum Overtravel	PC	95C2713	6.87
● 301SZQEJ81-22	Off-(On)	.110" Total, .020" Minimum Overtravel	Bezel Mount	95C2714	11.59
● 302ZQE	Off-(On)	.060" Total, No Overtravel	Solder Lug	95C2715	6.67
● 305ZQE	Off-(On)	.110" Total, .060" Minimum Overtravel	Solder Lug	95C2718	6.41

(72941)

9000 SERIES MINIATURE MOMENTARY
PUSHBUTTON SWITCHESAPEM®
APEM COMPONENTS, INC.

Fig. 1



Fig. 2



Fig. 3



Fig. 4

Contact ratings: Gold-plated brass - 100mA @ 30VDC; Silver - 0.3A @ 250VAC, 0.6A @ 125VAC or 1A @ 30VDC. Operating temperature range: -30°C to +65°C. Dialyl phthalate case. Nickel-plated brass bushing. Epoxy terminal seal. Supplied with 2 hex nuts .314" (8mm) across flats and 1 lockwasher.

Mfg. Part No.	Action	Fig.	Termination	Stock No.	Price Each
					1-24
● 9635AB	NC/NO	1	Solder Lug	96C7698	11.40
● 9432CDB	NC	2	PC	96C7653	10.67
● 9433CDB	NO	2	PC	96C7660	6.25
● 9435CDB	NC/NO	2	PC	96C7667	10.95
● 9432YCDB	NC	3	PC w/Bracket	96C7654	11.54
● 9435YCDB	NC/NO	3	PC w/Bracket	96C7668	13.87
● 9633NAB	NO	4	Solder Lug	96C7697	7.39

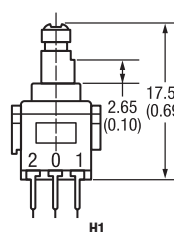
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PVA SERIES SHORT
STROKE KEY SWITCHES

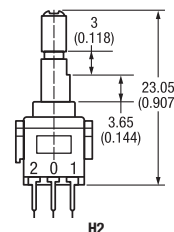
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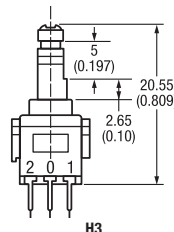
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H1



H2

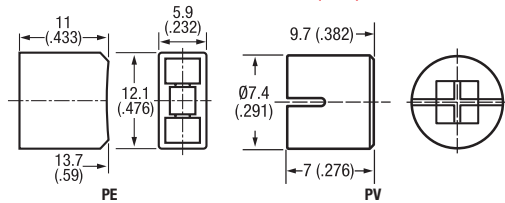


H3

➤ CONTINUED ➤

SWITCHES – PUSHBUTTON MINIATURE

PVA SERIES SHORT STROKE KEY SWITCHES (CONT.)



- 3VA or 100mA a@30V AC or DC Max.
- Operating Temperature: -40°C to +85°C

Rear terminated pushbutton DPST or DPDT switch is designed for low signal applications. Short stroke 1.5mm (0.0591) to latch. Operating force: **PVA1** = 120cN; **PVA2** = 170cN. **PVA2 types** mode of switching is non-shorting (BBM). Contact material: silver over Ni. Housing is thermoplastic (UL-94-V0). Sealed contacts, dust proof.

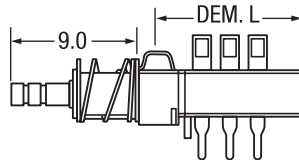
Mfg. Part No.	Mechanical Function	Electrical Function	Total Height	Stock No.	Price Each
● PVA10AH1	Momentary	DPST	17.5mm	19C6398	1.34
● PVA1EEH1	Push-Push	DPST	17.5mm	19C6388	1.42
● PVA10AH2	Momentary	DPST	23mm	19C6408	1.51
● PVA1EEH2	Push-Push	DPST	23mm	19C6393	1.59
● PVA20AH1	Momentary	DPDT	17.5mm	19C6419	1.42
● PVA2EEH1	Push-Push	DPDT	17.5mm	19C6410	1.51
● PVA20AH2	Momentary	DPDT	23mm	19C6422	1.59
● PVA2EEH2	Push-Push	DPDT	23mm	19C6414	1.67
● PVA10AH3	Momentary	DPST	20.5mm	49H6737	1.51
● PVA2EEH3	Push-Push	DPDT	20.5mm	49H6739	1.67
● PVA20AH3	Momentary	DPDT	20.5mm	49H6741	1.35

PVA SERIES ACCESSORIES

Mfg. Part No.	Description	Color	Stock No.	Price Each
● PE/BLK (PE BK)	Rectangular Switch Caps	Black	49H6721	0.28
● PE/RED (PE RD)	Rectangular Switch Caps	Red	49H6723	0.28
● PV/BLK (PV BK)	Round Switch Caps	Black	49H6731	0.25
● PV/RED (PV RD)	Round Switch Caps	Red	49H6733	0.27

(59778)

C&K F-SERIES RIGHT ANGLE PC MOUNT PUSHBUTTON SWITCHES



Features:

- Up to 10 poles per module
- Various contact terminals
- Various mounting & switch ganging configurations
- Mechanical indicator buttons
- Illumination options
- RoHS compliant

Specifications:

- Switching power (AC/DC): 50VA/15W; 1VA/300mW (AU)
- Switching voltage (AC/DC): 125/30V; 50/30V (AU)
- Switching current (AC/DC): 0.5A/0.5A; 0.04A/0.01A (AU)
- Operating force: 2U: 6.5N (650g); 4U: 6.5N (650g); 7.5N (750g)
- Carrying current: Max at $\delta u = 20^\circ\text{C}$: Silver: < 2A, Gold: < 0.5A
- Contact resistance: $\leq 10\text{m}\Omega$ after operating life: $\leq 100\text{m}\Omega$

Mfg. Part No.	Circuitry	Function	Dimensions (L)	Stock No.	Price Each
● F2UEE	DPDT	Push-Push	0.827" (21.00)	49H6695	1.81 1.73
● F2UEEAU	DPDT	Push-Push	0.827" (21.00)	49H6696	4.57 4.37
● F2UOA	DPDT	Momentary	0.827" (21.00)	49H6697	1.62 1.56
● F4UEE	4PDT	Push-Push	1.300" (33.00)	49H6698	2.81 2.69
● F4UEEAU	4PDT	Push-Push	1.300" (33.00)	49H6699	8.55 8.18
● F4UOA	4PDT	Momentary	1.300" (33.00)	49H6700	2.81 2.69

CAPS

Mfg. Part No.	Style	Color	Stock No.	Price Each
● F0201	Round	Black	63J8175	0.38 0.37
● F0202	Round	White	63J8176	0.36 0.34
● F0203	Round	Red	63J8180	0.40 0.38
● F0204	Round	Gray	36K1781	0.51 0.49
● FSC/BLK(F1201)	Rectangular	Black	49H6691	0.38 0.36
● FSC/WHT(1202)	Rectangular	White	49H6694	0.40 0.38
● FSC/RED(F1203)	Rectangular	Red	49H6693	4.25 4.07
● FSC/GRY(F1204)	Rectangular	Gray	49H6692	0.51 0.49

(75350)

C&K 8020 SERIES SNAP-ACTING MOMENTARY PUSHBUTTON SWITCHES



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5

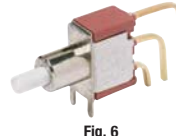


Fig. 6



Fig. 7

Specifications:

- Contact rating: **B** contact material (8X25): 0.4VA at 20VAC/DC; **G** contact material (8X21, U8X1): 1A at 120VAC or 28VDC or 0.4VA at 20VAC/DC
- Electrical life (at full load): 60,000 cycles
- Contact resistance: Below 50m Ω typical
- Insulation resistance: 109 Ω min
- Dielectric strength: 1,000Vrms min. at sea level
- Operating temperature: -30#UndefTag-786#C to 75#UndefTag-786#C
- Cap installation force: 10lbs max.
- Contacts: Copper alloy, w/gold over nickel plating
- Actuator cap and bezel: Nylon, black
- Housing: Stainless steel
- Case: Gf nylon or diallyl phthalate UL 94V-0

PANEL MOUNT, SOLDER TERMINAL - FIG. 1

Mfg. Part No.	Circuit	Stock No.	Price Each
● 8121SHZGE	SPDT	21F632	7.62 7.18 6.66
● 8125SD3V3BE		98F6823	5.67 5.34 4.95
● 8121SDZGE		94F2324	7.62 7.18 6.66
● 8121SDV3GE		09C8489	8.06 7.60 7.04
● 8125SHZBE		21F633	5.23 4.93 4.57
● 8221SHZGE	DPDT	21F634	11.45 10.79 10.00
● 8225SHZBE		21F635	6.53 6.28 5.61
● 8321SHZGE	3PDT	44F3271	14.54 13.98 12.49
● 8421SHZGE	4PDT	46F1707	18.35 17.65 15.77

RAISED CAP AND SQUARE BEZEL PANEL MOUNT, SOLDER TERMINAL - FIG. 2

Mfg. Part No.	Circuit	Stock No.	Price Each
● 8121J81ZGE22	SPDT	44F3273	8.42 7.94 7.35
● 8125J81ZBE22		46F1443	6.03 5.68 5.26
● 8221J81ZGE22	DPDT	44F3274	12.25 11.54 10.69
● 8225J81ZBE22		46F1709	8.04 7.58 7.02

RAISED CAP, BEZEL, FRAME FOR LED, PANEL MOUNT, SOLDER TERMINAL - FIG. 3

Mfg. Part No.	Circuit	Stock No.	Price Each
● 8121J82ZGE22	SPDT	44F3275	8.54 8.05 7.46
● 8125J82ZBE22		46F1710	6.15 5.79 5.37

FLUSH CAP AND SQUARE BEZEL, PANEL MOUNT, SOLDER TERMINAL - FIG. 4

Mfg. Part No.	Circuit	Stock No.	Price Each
● 8121J83ZGE22	SPDT	96F1746	8.42 7.94 7.35
● 8125J83ZBE22	SPDT	96F1747	6.03 5.68 5.26
● 8221J83ZGE22	DPDT	96F1748	12.25 11.54 10.69

PC MOUNT, VERTICAL

Mfg. Part No.	Circuit	Stock No.	Price Each
8121SHCGE	SPDT	94F2590	7.72 7.28 6.74
8125SHCBE	SPDT	94F2315	5.33 5.02 4.65

PC MOUNT, RIGHT ANGLE - FIG. 5

Mfg. Part No.	Circuit	Stock No.	Price Each
● 8121SD9AGE	SPDT	46F1712	8.10 7.64 7.07
● 8125SD9ABE	SPDT	94F2313	5.71 5.38 4.98

PC MOUNT, VERTICAL RIGHT ANGLE - FIG. 6

Mfg. Part No.	Circuit	Stock No.	Price Each
● 8121SD9AV2GE	SPDT	94F9238	8.22 7.75 7.18
● 8125SD9AV2BE	SPDT	96F1741	5.83 5.49 5.09

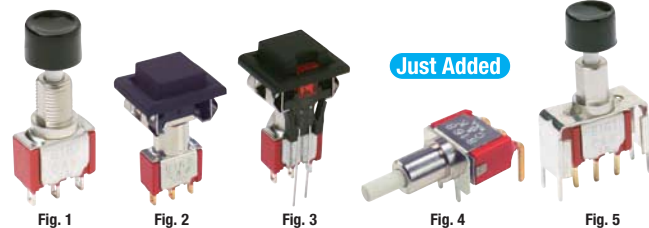
PC MOUNT, SUPPORT BRACKET - FIG. 7

Mfg. Part No.	Circuit	Stock No.	Price Each
● 8121SD9V3GE	SPDT	96F1742	8.06 7.60 7.04

(4936)

SWITCHES – PUSHBUTTON MINIATURE

C&K 8060 SERIES ALTERNATE ACTION AND MOMENTARY PUSHBUTTON SWITCHES



Just Added

Features:

- Long travel
- Available with LED
- Long life contact design

Specifications:

- Contact rating: 6A at 120VAC or 28VDC; 3A at 250VAC
- Electrical life (at full load): 50,000 cycles
- Contact resistance: Below 20 mΩ typical
- Insulation resistance: 109Ω min
- Dielectric strength: 1,000Vrms min
- Operating temperature: -30#UndefTag-786#HC to 65#UndefTag-786#HC

- Epoxy terminal seal compatible with bottom wash cleaning

- Cap installation force: 10lbs max
- Contact and terminals: Copper alloy w/gold over nickel plating
- Red LED supplied only with J86 (nonreplaceable)
- "L" in mfg. part no.: 0.740" (18.796) high plunger with 0.395" (10.033) dia. cap.
- Nuts, lockwasher, locking ring supplied; go online or call.

SOLDER TERMINAL, PANEL MOUNT - FIG. 1

Mfg. Part No.	Circuitry	Action	Stock No.	Price Each	
				1-24	25-99
● 8161SHZGE2	SPDT	On-On	96F1749	6.29	6.03
● 8161SHZQE2	SPDT	On-On	21F828	5.74	5.52
● 8168SHZGE2	SPDT	On-(On)	96F1750	6.29	6.03
● 8168SHZQE2	SPDT	On-(On)	21F829	5.86	5.61
● 8261SHZGE2	DPDT	On-On	96F1751	11.59	11.11
● 8168LHZQE2	SPDT	On-(On)	50B1818	5.86	5.61
● 8261SHZQE2	DPDT	On-On	46F1708	10.64	10.20

CAP AND SQUARE BEZEL, PANEL MOUNT, SOLDER TERMINAL - FIG. 2

● 8168J81ZGE22	SPDT	On-(On)	96F1753	7.92	7.58
● 8168J81ZQE22	SPDT	On-(On)	21F832	7.56	7.23
● 8261J81ZGE22	SPDT	On-On	96F1754	13.77	13.17
● 8161J81ZGE22	SPDT	On-On	96F1752	7.92	7.58

CAP, SQUARE BEZEL AND BUILT-IN RED LED, PANEL MOUNT, SOLDER TERMINAL - FIG. 3

● 8168J86ZGE223	SPDT	On-(On)	96F1745	11.06	10.61
● 8161J86ZGE223	SPDT	On-On	96F1744	11.06	10.61

PC MOUNT, RIGHT-ANGLE - FIG. 4

● 8168SH9ABE2	SPDT	On-(On)	46F1702	6.91	6.61
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PC MOUNT, VERTICAL SUPPORT BRACKET - FIG. 5

● 8161SH9V3BE2	SPDT	On-On	44F3280	7.04	6.74
● 8168SH9V3BE2	SPDT	On-On	44F3281	7.04	6.74

(4937)

F80 SERIES LINE INTERRUPTS



Features:

- Snap-in panel mounting
- High over travel
- Choice of button barrier or standard housing

Specifications:

- Temperature Rating: -25°C to +85°C
- Flammability Rating: UL94V-0
- Package Size: 1.570L x 0.685W x 1.075"H



CONTACTS AND RATINGS

Series Prefix	UL and CSA Ratings	Contact
F81	10A, 125/250VAC, 3/4HP; 125VAC 1.5HP; 250VAC, 6A @ 30VDC	Silver Alloy
F82	16A, 125/250VAC, 3/4HP; 125VAC 1.5HP; 250VAC, 6A @ 30VDC	Silver Alloy
F83	0.1A 125VAC	Gold Crosspoint

Mfg. Part No.	Pole	Contact	Case	Terminal Type (Q.C.)	Stock No.	Price Each
● F81A-A110	1 and 3/2	SPST NO DM/VACANT	Basic	0.187 x 0.02	17B6009	13.37
● F81A-A120	1 and 3/2	SPST NO DM/VACANT	Basic	0.25 x 0.032	17B6010	13.37
● F81A-B110	1 and 3/2	SPST NO DM/VACANT	Actuator Barrier	0.187 x 0.02	50B1957	14.14
● F81J-A120	1 and 2/3	SPST NO DM/SPDT NC DB/SPDT NO DM	Basic	0.25 x 0.032	17B6011	14.20
● F82A-A120	1 and 3/2	SPST NO DM/VACANT	Basic	0.25 x 0.032	98B1380	13.14
● F82A-B120	1 and 3/2	SPST NO DM/VACANT	Actuator Barrier	0.25 x 0.032	52F9244	14.31

*DB = Dead Break, DM = Dead Make
(75283)

E SERIES PANEL MOUNT PUSHBUTTON SWITCHES



- Applications: Door and drawer light/interlock switch, test function switch, EDP and business machine start switch, photocopy machines
- Panel mount
- SPDT or DPDT
- 0.187" (4.75) quick-connect terminals
- (On) = Momentary action



E68 series is 0.1A, 125VAC with gold crosspoint contacts. E69 series is 10 amps, 125/250VAC, 1/2HP. Both series 0.91L x 0.540W x 1.05"H (23.11 x 13.72 x 26.67). E68 series panel mount, rating: 10 amps, 125/250VAC, 1/2HP. 1.24L x 0.540W x 1.05"H (31.50 x 13.72 x 26.67). UL recognized, CSA certified, VDE versions available.

Mfg. Part No.	Circuitry	Function	Termination	Stock No.	Price Each		
					1-9	10-49	50-99
● OE68-00A0	SPDT	(On)	Panel	94F3239	5.61	4.95	4.15
● OE68-30A0	SPDT	(On)	Panel	84F507	5.89	5.20	4.36
● OE69-00A0	SPDT	(On)	Panel	29F2920	3.17	2.80	2.34
● OE69-30A0	SPDT	(On)	Panel	30M8004	3.76	3.32	2.78
● OE69-40A0	SPDT	(On)	Panel	84F1105	3.94	3.48	2.91
● OE79-00A0	DPDT	(On)	Panel	94F6219	6.81	6.02	5.04
● OE79-30A0	DPDT	(On)	Panel	29F2923	8.69	7.68	6.43
● OE79-40A0	DPDT	(On)	Panel	84F508	6.81	6.02	5.04

(5079)

18 SERIES MINIATURE PUSHBUTTON SWITCHES



Features:

- Available in both standard and flush mount styles
- For illuminated versions, LED is directly integrated into lens
- Minimum behind-panel depth — 0.906" for standard mount, 1.20" for flush
- Solder terminals

Specifications:

- Sealed to IP40 standards
- Maximum switch rating of 100mA at 42VAC/DC
- Standard switches and indicators mount in 8mm dia. hole
- Flush units mount in a 16mm dia. or 15.8 x 15.8mm cut-out

Use 2-Step Component Process to Assemble Complete Switch:

- STEP 1A: Choose standard or flush mount pushbutton or indicator
- STEP 1B: For flush mount choose flush mount adapter kit
- STEP 2: Choose lens standard or flush (For pushbutton only)

STEP 1A: PUSHBUTTON SWITCH STANDARD MOUNT

Mfg. Part No.	Circuitry	Action	Bezel Style	Stock No.	Price Each	
					1-24	25-249
● 18-137.035	SPST-NO	(On)	Round	97F7712	9.98	8.66
● 18-147.035	SPST-NO	(On)	Rectangular	97F7710	9.98	8.66
● 18-157.035	SPST-NO	(On)	Square	97F7711	9.98	8.66
● 18-237.035	SPST-NO	On	Round	97F7696	10.33	8.96
● 18-247.035	SPST-NO	On	Rectangular	97F7713	9.93	8.62
● 18-257.035	SPST-NO	On	Square	99F9365	10.54	9.14
● 18-138.035	SPST-NC	(On)	Round	88F5286	10.30	8.94
● 18-148.035	SPST-NC	(On)	Rectangular	30B3992	10.30	8.94
● 18-158.035	SPST-NC	(On)	Square	30B3993	10.30	8.94
● 18-238.035	SPST-NC	On	Round	97F7697	11.28	9.79
● 18-248.035	SPST-NC	On	Rectangular	30B3998	11.28	9.79
● 18-258.035	SPST-NC	On	Square	97F7698	11.28	9.79

STEP 2: LENS STANDARD MOUNT

Mfg. Part No.	Bezel Style	Lens Color	LED	Stock No.	Price Each	
					1-24	25-249
● 18-931.2	Round		2.2VDC	97F7689	3.17	2.75
● 18-931.4	Round		2.2VDC	97F7690	2.95	2.56
● 18-931.5	Round		2.2VDC	97F7691	3.17	2.75

➤ CONTINUED ➤

SWITCHES – PUSHBUTTON MINIATURE

18 SERIES MINIATURE PUSHBUTTON SWITCHES (CONT.)

Mfg. Part No.	Bezel Style	Lens Color	LED	Stock No.	Price Each	
					1-24	25-249
● 18-941.2	Rectangular		2.2VDC	97F7701	3.17	2.75
● 18-941.4	Rectangular		2.2VDC	97F7702	3.16	2.74
● 18-941.5	Rectangular		2.2VDC	97F7703	3.17	2.75
● 18-951.2	Square		2.2VDC	97F7704	3.17	2.75
● 18-951.4	Square		2.2VDC	97F7687	2.63	2.28
● 18-951.5	Square		2.2VDC	97F7688	2.87	2.49
● 18-932.2	Round		N/A	97F7670	1.35	1.17
● 18-932.4	Round		N/A	97F7671	1.22	1.06
● 18-932.5	Round		N/A	97F7672	1.28	1.11
● 18-932.8	Round		N/A	02J6883	1.18	1.03
● 18-932.9	Round		N/A	97F7673	1.27	1.10
● 18-942.2	Rectangular		N/A	97F7680	1.35	1.17
● 18-942.4	Rectangular		N/A	97F7681	1.35	1.17
● 18-942.8	Rectangular		N/A	85C4539	1.35	1.17
● 18-952.2	Square		N/A	97F7684	1.35	1.17
● 18-952.4	Square		N/A	97F7685	1.22	1.06
● 18-952.5	Square		N/A	97F7686	1.22	1.06
● 18-952.8	Square		N/A	78H1251	1.34	1.16
● 18-952.9	Square		N/A	97F7669	1.22	1.06

STEP 1A: COMPLETE STANDARD MOUNT INDICATOR (INCLUDES LENS AND LED)

Mfg. Part No.	Bezel Style	Color	LED	Stock No.	Price Each	
					1-24	25-249
● 18-040.0052	Rectangular	Red	2.2VDC	97F7705	6.08	5.28
● 18-040.0054	Rectangular	Yellow	2.2VDC	06C0326	6.71	5.82
● 18-040.0055	Rectangular	Green	2.2VDC	06C0327	6.08	5.28
● 18-050.0052	Square	Red	2.2VDC	97F7706	6.71	5.82
● 18-050.0054	Square	Yellow	2.2VDC	06C0328	6.08	5.28
● 18-050.0055	Square	Green	2.2VDC	98B9230	6.71	5.82
● 18-030.0052	Round	Red	2.2VDC	95B1679	6.63	5.75
● 18-030.0054	Round	Yellow	2.2VDC	95B1683	6.71	5.82
● 18-030.0055	Round	Green	2.2VDC	97F7707	6.45	5.60
● 18-041.0052	Rectangular	Red	12VDC	02J6870	7.43	6.45
● 18-041.0054	Rectangular	Yellow	12VDC	02J6871	8.01	6.95
● 18-041.0055	Rectangular	Green	12VDC	02J6872	7.26	6.30
● 18-051.0052	Square	Red	12VDC	02J6876	8.01	6.95
● 18-051.0054	Square	Yellow	12VDC	02J6877	8.01	6.95
● 18-051.0055	Square	Green	12VDC	02J6878	7.19	6.24
● 18-031.0052	Round	Red	12VDC	30C4357	7.63	6.62
● 18-031.0054	Round	Yellow	12VDC	02J6868	8.01	6.95
● 18-031.0055	Round	Green	12VDC	29C8967	8.01	6.95
● 18-042.0052	Rectangular	Red	24VDC	02J6873	7.26	6.30
● 18-042.0054	Rectangular	Yellow	24VDC	02J6874	7.18	6.23
● 18-042.0055	Rectangular	Green	24VDC	02J6875	7.70	6.68
● 18-052.0052	Square	Red	24VDC	61H7054	8.01	6.95
● 18-052.0054	Square	Yellow	24VDC	25C4845	7.55	6.56
● 18-052.0055	Square	Green	24VDC	82K9039	7.70	6.68
● 18-032.0052	Round	Red	24VDC	02E8874	7.52	6.53
● 18-032.0054	Round	Yellow	24VDC	02J6869	7.52	6.53
● 18-032.0055	Round	Green	24VDC	30C9158	7.55	6.55

STEP 1A: COMPLETE FLUSH MOUNT INDICATORS (INCLUDES LENS AND LED)

Mfg. Part No.	Bezel Style	Color	LED	Stock No.	Price Each	
					1-24	25-249
● 18-080.0052	Square	Red	2.2VDC	02J6879	7.19	6.24
● 18-080.0054	Square	Yellow	2.2VDC	99B0957	7.19	6.24
● 18-080.0055	Square	Green	2.2VDC	02J6880	7.19	6.24
● 18-081.0052	Square	Red	12VDC	82K9041	8.16	7.08
● 18-081.0054	Square	Yellow	12VDC	82K9042	8.16	7.08
● 18-081.0055	Square	Green	12VDC	82K9043	7.70	6.68
● 18-082.0052	Square	Red	24VDC	02J6881	8.49	7.37
● 18-082.0054	Square	Yellow	24VDC	82K9044	8.16	7.08
● 18-082.0055	Square	Green	24VDC	02J6882	8.49	7.37
● 18-060.0052	Round	Red	2.2VDC	19C9578	7.19	6.24
● 18-060.0054	Round	Yellow	2.2VDC	90B0029	6.69	5.81
● 18-060.0055	Round	Green	2.2VDC	90B0030	6.52	5.65
● 18-061.0052	Round	Red	12VDC	05H9986	8.49	7.37
● 18-061.0054	Round	Yellow	12VDC	06C0472	8.49	7.37
● 18-061.0055	Round	Green	12VDC	06C0473	8.49	7.37
● 18-062.0052	Round	Red	24VDC	98H0309	8.49	7.37
● 18-062.0054	Round	Yellow	24VDC	19C9580	8.16	7.08
● 18-062.0055	Round	Green	24VDC	19C9591	8.16	7.08

➤ CONTINUED ➤

18 SERIES MINIATURE PUSHBUTTON SWITCHES (CONT.)

STEP 1A: FLUSH MOUNT PUSHBUTTONS

Mfg. Part No.	Circuitry	Action	Bezel Style	Stock No.	Price Each	
					1-24	25-249
● 18-187.035	SPST-NO	(On)	Square	30B3996	9.98	8.66
● 18-167.035	SPST-NO	(On)	Round	30B3994	9.98	8.66
● 18-287.035	SPST-NO	On	Square	30B4000	10.96	9.51
● 18-267.035	SPST-NO	On	Round	90B0031	10.45	9.07
● 18-188.035	SPST-NC	(On)	Square	30B3997	10.30	8.94
● 18-168.035	SPST-NC	(On)	Round	30B3995	10.30	8.94
● 18-288.035	SPST-NC	On	Square	30B4001	10.23	8.88
● 18-268.035	SPST-NC	On	Round	30B3999	11.28	9.79

STEP 1B: FLUSH MOUNT ADAPTER KIT

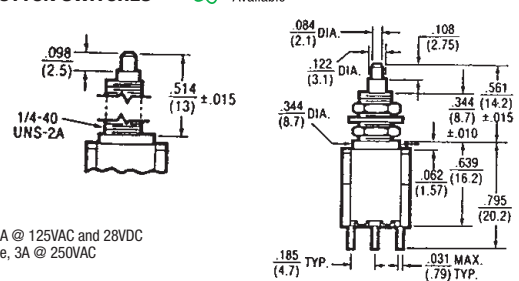
Mfg. Part No.	Bezel Style	Mounting Hole	Stock No.	Price Each	
				1-24	25-249
● 18-920.1	Square	Square	30B4002	3.04	2.64
● 18-920.2	Round	Square	30B4003	3.05	2.64
● 18-920.3	Round	Round	90B0032	3.17	2.75

STEP 2: LENS FLUSH MOUNT (PUSHBUTTON ONLY)

Mfg. Part No.	Bezel Style	Color	LED	Stock No.	Price Each	
					1-24	25-249
● 18-981.2	Square		2.2VDC	97F7692	3.33	2.89
● 18-981.4	Square		2.2VDC	97F7693	3.67	3.19
● 18-981.5	Square		2.2VDC	97F7694	3.53	3.06
● 18-961.2	Round		2.2VDC	97F7695	3.67	3.19
● 18-961.4	Round		2.2VDC	97F7678	3.53	3.06
● 18-961.5	Round		2.2VDC	18C0478	3.36	2.92
● 18-982.2	Square		N/A	97F7674	1.85	1.60
● 18-982.4	Square		N/A	02J6884	1.85	1.60
● 18-982.5	Square		N/A	97F7676	1.67	1.45
● 18-962.2	Round		N/A	97F7663	1.85	1.60
● 18-962.4	Round		N/A	97F7664	1.74	1.51
● 18-962.5	Round		N/A	97F7665	1.85	1.60

(5175)

PB SERIES MINIATURE PUSHBUTTON SWITCHES



- Rated 6A @ 125VAC and 28VDC Resistive, 3A @ 250VAC

Panel-mount units have solder lug terminals and coin silver contacts. Base diallyl phthalate, bushing nickel-plate brass. Include 2 hex nuts, 1 lockwasher, black cap. UL recognized. Cap included.

Mfg. Part No.	Action	Cap Diameter	Stock No.	Price Each	
				1-24	25-49
● PB-12331ZQ	On-None-On	0.375"	06M4742	10.10	7.66
● PB-12311ZQ	On-None-On	0.200"	65F895	10.10	7.66
● PB-12631ZQ	On-None-(On)	0.375"	06M4744	9.57	7.26
● PB-12611ZQ	On-None-(On)	0.200"	06M4743	9.57	7.26

(4993)

23, 4000/10 SERIES WIPING CONTACT, AND 2200 SERIES SNAP ACTION SWITCHES



- For Low Voltage and High Current Applications
- Rated to Make and Break at 115VAC



Mfg. part no. 23-1 clean wiping contact N.O. switches have consistent contact resistance for low voltage applications. Rating: 250mA, 100,000 operations. Mfg. part nos. 10-09, 4001 and 4002 clean wiping contact N.O. and N.C. switches rated 1A, 100,000 operations; or 3A, 6,000 (UL) operations. Mfg. part nos. 2201 and 2202 have audible click and rapid spring action for switching high currents. Rating: 10A, 25,000 operations. Order hardware separately on page 1728.

➤ CONTINUED ➤

SWITCHES – PUSHBUTTON MINIATURE

23, 4000/10 SERIES WIPING CONTACT, AND 2200 SERIES SNAP ACTION SWITCHES (CONT.)

Mfg. Part No.	Max. Body Dia. (Inches)	Button (Mtg. Hole)	Circuits	Stock No.	Price Each	
					1-9	10-24
● 23-1	0.468"	Red (0.328" Dia.)	SPST-N.O.	24F204	9.92	9.59
● 10-09*	0.800"	Black (0.48" Dia.)	SPST-N.O.	14M6603	7.29	7.05
● 10-09UL*	0.800"	Black (0.48" Dia.)	SPST-N.O.	14M6604	10.12	9.78
● 4001*	0.800"	Red (0.48" Dia.)	SPST-N.O.	24F202	7.29	7.05
● 4002*	0.800"	Black (0.48" Dia.)	SPST-N.C.	24F203	7.29	7.05
● 2201	0.880"	Red (0.484" Dia.)	SPST-N.O.	24F200	22.63	21.89
● 2202	0.880"	Black (0.484" Dia.)	SPST-N.C.	24F201	24.15	23.35

*Available in UL recognized style; go online or call.
(5071)

SERIES 39 MINIATURE LIMIT BUTT CONTACT PUSHBUTTON SWITCHES



- Circuitry: SPST, Normally Open (Normally Closed for Sealed, No Overtravel)
- Contact Resistance: 25 Milliohms Maximum on a New Switch
- Voltage Breakdown: 1000VAC Between Mutually Insulated Parts
- Insulation Resistance: 1000 Megohms Minimum
- Operating Temperature: -40°C to +85°C
- Rated to 1/2A at 115VAC Resistive, with Up to 500,000 Operations; 1/4A Resistive at 115VAC for Sealed

39 series have an adjustable location setting and are available in a plunger-sealed version. Dimensions: switch diameter is 0.287" (7.29) max. across single "b" flat, threaded.



Mfg. Part No.	Description	Height	Stock No.	Price Each	
				1-9	10-49
● 39-101	N.O. Overtravel (0.60)	0.450" ± 0.015"	17M8444	10.75	9.57
● 39-102	N.O. Extended Overtravel (0.200)	0.600" ± 0.015"	91F3834	19.56	17.41
● 39-103	N.O. Extd. Overtravel Sealed (0.200)	0.600" ± 0.015"	14M6744	20.28	18.05
● 39-701	N.O. Overtravel Sealed	0.600" ± 0.015"	14M6754	12.79	11.39
● 39-702	N.C. Sealed (0.60)	0.410" ± 0.015"	14M6755	13.40	11.93

(11826)

39 SERIES 1/2A AND 30 SERIES 1A MINIATURE SPST BUTT CONTACT PUSHBUTTON SWITCHES



39-2 30-1, 30-2, 30-3, 30-15 30-17 30-05

Gold contact switches provide low level switching. Mfg. part nos. 39-1 and 39-3 are rated 1/2A res. at 115VAC and 1/4A res. at 220VAC, 1,000,000 operations. Behind panel: 0.315" (8.00); diameter 0.25" (6.35). Mfg. part no. 39-2 is rated 1/4A at 115VAC and 1/8A at 220VAC. Behind panel: 0.490" (12.45); diameter 0.25" (6.35). Mfg. part nos. 30-1 and 30-3. Behind panel: 0.592" (15.04); diameter 0.375" (9.53). Mounting hole 0.266" (6.76). Rated 1A at 115VAC, 1,000,000 operations. Mfg. part no. 30-2 behind panel: 0.605" (15.37). Rated 1A at 115VAC, 1,000,000 operations. Mfg. part no. 30-15 has .02" (0.51) overtravel. Behind panel 0.677" (17.2). Rated 1A at 115VAC, 500,000 operations. Mfg. part no. 30-17 RED and Mfg. part no. 30-17 BLK have overtravel and positive feel. Behind panel: 0.631" (0.864") (16.03/21.95) adjustable, diameter 0.468" (11.89), mounting hole 0.484" (12.30), cap diameter 0.390" (9.91). Mfg. part no. 30-05-01 behind panel: 0.930" (23.62), diameter 0.625" (15.88), mounting hole 0.516" (13.10). Mfg. part no. 30-05-04 has overtravel and positive feel. Behind panel 1.130" (28.7). Round bezel. Decorative mounting. Order hardware for 30 series switches separately on this page.

Mfg. Part No.	Button	Circuitry	Stock No.	Price Each	
				1-24	25-49
● 39-1	Red	SPST-NO	24F209	4.67	4.16
● 39-2	Black	SPST-NC	14M6745	7.20	6.41
● 39-3	Black	SPST-NO	14M6748	4.67	4.16
● 30-1	Red	SPST-NO	24F205	3.23	2.88
● 30-2	Black	SPST-NC	14M6740	3.63	3.23
● 30-3	Black	SPST-NO	57F2616	3.23	2.88
● 30-15	Red	SPST-NO	14M6737	4.02	3.59
● 30-17 RED	Red	SPST-NO	14M6739	7.95	7.08
● 30-17 BLK	Black	SPST-NO	14M6738	7.95	7.08
● 30-05-04-502-07	Black	SPST-NO	01C7890	40.10	35.73
● 30-05-01-502-0707	Black	SPST-NO	14M6733	31.54	28.10

(5073)

46 SERIES SPDT AND DPDT 1/4 AMP WIPING CONTACT PUSHBUTTON SWITCHES



46-101 46-102 46-200 46-05-05 46-05-08

Clean wiping contact switches have consistent contact resistance for low-voltage applications. 46 series rated to make and break 250mA at 115VAC, 250,000 operations. All switches have break-before-make contacts. Order hardware separately on this page.

Mfg. Part No.	Max. Body Dia. (Inches)	Button (Mtg. Hole)	Circuits	Stock No.	Price Each	
					1-9	10-24
● 46-101 RED	0.437"	Red (0.266" Dia.)	SPDT	58M3272	7.23	
● 46-101 BLK	0.437"	Black (0.266" Dia.)	SPDT	58M3271	7.23	
● 46-102 RED	0.437"	Red (0.266" Dia.)	SPDT	58M3274	7.25	
● 46-102 BLK	0.437"	Black (0.266" Dia.)	SPDT	58M3273	7.25	

DPDT, BEHIND PANEL: 0.921" x 0.625" W, 0.266" HOLE

● 46-200 RED	0.625"	Red (0.266" Dia.)	DPDT	58M3276	13.92	
● 46-200 BLK	0.625"	Black (0.266" Dia.)	DPDT	58M3275	13.92	

SPDT, BEHIND PANEL: 1.179" x 0.640" NUT DIA., 0.516" HOLE

● 46-05-05-502-0707	0.640"	Black (0.516" Dia.)	SPDT	16M3106	29.11	
● 46-05-05-502-0303	0.640"	Red (0.516" Dia.)	SPDT	16M3105	29.11	

DPDT, BEHIND PANEL: 1.188" x 0.76" NUT DIA., 0.641" HOLE

● 46-05-08-502-0707*	0.76"	Black (0.641" Dia.)	DPDT	16M3108	38.71	
● 46-05-08-502-03*	0.76"	Red (0.641" Dia.)	DPDT	16M3107	29.03	

*Available in UL recognized style; go online or call.
(5072)

SERIES 30 SNAP-IN PANEL MOUNTING PUSHBUTTON SWITCHES



- Contact rating: 150mA at 24VDC
- Travel: 0.90 nominal
- Travel before make: 0.035 nominal
- Gold plated contacts
- Sealed
- .690" diameter switch (.596"/.602" mounting hole)
- Operating temperature: -40°C to +80°C
- (On) = Momentary action



Mfg. Part No.	Circuitry	Function	Button Color	Stock No.	Price Each	
					1-9	10-24
● 30-100	SPST	(On)	Black	35K5739	4.65	4.32
● 30-101	SPST	(On)	Red	35K5740	4.65	4.32
● 30-102	SPST	(On)	Green	35K5741	6.20	5.76
● 30-103	SPST	(On)	Yellow	14M8290	6.20	5.76
● 30-104	SPST	(On)	Orange	14M6736	6.12	5.69

(84936)

PUSHBUTTON SWITCH ACCESSORIES



Mfg. Part No.	Description	Fits Series	Stock No.	Price Each	
				1-24	25-49
● 07C1040-1	.77" OD Nut	7, 10, 4000, 2200	17M8288	1.57	1.41
● 10C1015-1	.89" OD Button Guard	7, 10, 4000, 2200	51M9274	1.78	1.54
● 30B1012-5	.25" OD Red Cap	30, 39*	94F2263	0.48	0.43
● 30B1012-8	.25" OD White Cap	30, 39*	94F6618	0.52	0.47
● 30B1012-9	.25" OD Black Cap	30, 39*	18M6492	0.48	0.43
● 30C1023-1	.46" OD Nut	30, 46	14M6743	1.63	1.47

* Does not fit 39-101
(5074)



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(148830)

SWITCHES – PUSHBUTTON MINIATURE

47 SERIES MINIATURE SEALED PUSHBUTTON SWITCHES


ITW Switches
 SENSORS, SWITCHES, ELECTRONIC CONTROLS


Features:

- Small size
- Low cost
- 7 button colors available
- Panel mount and terminate with a standard connector or mount in a PC board
- Two sealing levels available
- Ideal for marine equipment, industrial controls, medical equipment, appliances

Specifications:

- (On) = Momentary action
- IP67 sealed
- Operating temperature: -40°C to 85°C
- Current rating: 20mA at 28VDC
- Recommended panel cutout: .565/.560 diameter

PANEL SEALED w/EPOXY SEALED BASE

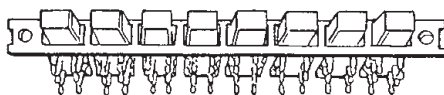
Mfg. Part No.	Function	Button Color	Termination	Stock No.	Price Each
● 47-1111	(On)	Black	PCB	84K9466	4.56
● 47-1121	(On)	Red	PCB	75K6149	5.69
● 47-1131	(On)	Green	PCB	84K9467	5.69

PANEL SEALED

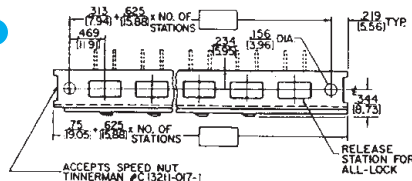
● 47-2111	(On)	Black	PCB	84K9472	4.25
● 47-2121	(On)	Red	PCB	84K9473	5.20
● 47-2131	(On)	Green	PCB	84K9474	5.20

(88120)

65000 AND 67000 SERIES DOUBLE WIPE MULTI-STATION SWITCHES


Switchcraft®


Just Added



Factory assembled and tested, these switches are DPDT modules with solder lug terminals. U-shaped bifurcated contacts, rated 3 amps AC or 0.5 amps DC, 125 volts. All interlock with lockout. Panel cutout: 0.313" (7.94) x 0.625" (15.88) x number of stations = hole-to-hole distance. **67000 series** switches accept T-1 1/4 flange base lamps in 6V, 6.3V and 28V sizes. One lamp per station. *Order lamps separately; go online or call.*

65000 SERIES NON-ILLUMINATED SWITCHES

Mfg. Part No.	Stations	Stock No.	Price Each
● 65041K206X	4	89K7677	18.39
● 65061K206X	6	89K7678	29.78
● 65121K206X	12	70M8681	54.53

67000 SERIES ILLUMINATED SWITCHES

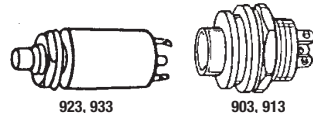
● 67041K506X	4	89K7679	40.59
● 67061K506X	6	89K7680	46.65
● 67081K506X	8	89K7681	66.85
● 67121K506X	12	89K7682	104.74

(4994)

MINIATURE MOMENTARY PUSHBUTTON SWITCHES


Switchcraft®

Molded red or black plastic pushbutton enclosed in metal housing. Solder lug terminals. Integral nickel silver contacts rated 250mA, 30 watts maximum AC non-inductive. SPDT, break before make. **Mfg. part nos. 903, 913** are front mount in 0.469" (11.91) mounting hole for panel up to 0.297" (7.54) thick. **Mfg. part nos. 923, 933** are rear mount in 0.250" (6.35) mounting hole for panel up to 0.156" (3.96) thick. All are bushing mount.



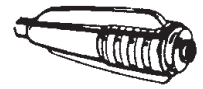
Mfg. Part No.	Mount	Button Color	Stock No.	Price Each
● 913X	Front	Black	89K7684	4.99
● 933	Rear	Black	22F235	6.27
● 903X	Front	Red	89K7683	4.99
● 923	Rear	Red	22F231	6.07

(4998)

PUSHBUTTON PENDANT/ CORD SWITCH


Switchcraft®

Cordette® pendant switch features 1-piece gray molded plastic housing that protects integral brass, hard gold-plated contacts, rated 500mA, 50 watts maximum AC non-inductive. SPST momentary action. 6-ft. (72.0) of 2-conductor unshielded cable molded to body with other end leads stripped and tinned. Small, lightweight 1.188" (30.18) wide x 2.938" (74.63) long. Sealed Cordette® version also available; *go online or call.*



Mfg. Part No.	Stock No.	Price Each
● 921KX	89K7685	1-9 36.23

(5001)

MPA-6 SERIES MINIATURE PUSHBUTTONS

Tyco Electronics

Solid silver with gold flash contacts rated 6A @ 125VAC, 3A @ 250VAC, 4A @ 28VDC. Gold flash solder terminals. Dielectric strength: 1,500Vrms. Life expectancy: 50,000 operations. High-torque bushing shoulder, 0.280" L, 1/4-40 UNS-2A. SPDT W x L: 0.320 x 0.510". DPDT W x L: 0.510 x 0.510". Order **C-22** or **C-23** series switch caps separately; *go online or call.*



Mfg. Part No.	Circuitry	Action	Stock No.	Price Each		
● MPA106D04	SPDT	Push-On/Off	88K0693	12.12	10.88	9.97
● MPA-106F04	SPDT	Momentary	69K7034	8.12	7.37	6.76
● MPA206N04	DPDT	Push-On/Off	16M2438	13.68	13.19	12.59
● MPA206R04	DPDT	Momentary	69K7035	9.54	8.59	7.81
● MPA306F04	3PDT	Momentary	05M6468	18.16	16.65	15.37
● MPA406R04	4PDT	Momentary	16M2649	24.02	21.84	20.02

(4770)

MPE-6 SERIES SEALED PUSHBUTTONS


Tyco Electronics

Solid silver contacts rated 6A @ 125VAC, 3A @ 250VAC, 4A @ 28VDC. Gold flash solder terminals. Life expectancy: 50,000 operations. High-torque bushing shoulder, 0.280" L, 1/4-40 UNS-2A. SPDT W x L: 0.320 x 0.510". DPDT W x L: 0.510 x 0.510". 4PDT W x L: 0.890 x 0.510". Splashproof seal. Order **C-22** or **C-23** series switch caps separately; *go online or call.*



Mfr. Part No.	Circuitry	Action	Stock No.	Price Each	
● MPE106F04	SPDT	Momentary	80K9347	8.91	8.02
● MPE206R04	DPDT	Momentary	69K7036	10.98	10.29
● MPE406N04	4PDT	Push-On/Off	16M2442	28.67	26.16

(4767)

BUTTON GUARDS FOR MPA AND MPE SERIES SWITCHES


Tyco Electronics

Type number suffix = color: **A** = natural aluminum, **B** = black aluminum, **C** = chromed brass.



PLAIN FINISH GUARDS

Mfg. Part No.	Matching Button	Stock No.	Price Each			
● G-12-A	C22	57F2113	2.51	2.32	2.13	1.98
● G-12-B	C22	57F2114	2.34	2.12	1.94	1.80
● G-12-C	C22	57F2112	2.85	2.61	2.41	2.23
● G-13-B	C23	57F2120	3.66	3.33	3.03	2.76
● G-15	Series MSPF	77B7707	5.08	4.51	4.10	3.94

KURLED FINISH GUARDS

● G-12-KA	C22	57F2110	3.26	2.89	2.63	2.52
● G-12-KB	C22	57F2111	2.01	1.83	1.67	1.55
● G12K-C	C22	25F2035	3.07	2.83	2.79	2.75
● G-13-A	C23	57F2119	3.26	3.05	2.87	2.73
● G-13-KA	C23	57F2116	3.07	2.88	2.70	2.56
● G-13-KB	C23	57F2117	4.03	3.58	3.25	3.12
● G-13-KC	C23	57F2115	5.16	4.75	4.68	4.62

(4931)

SWITCHES – PUSHBUTTON MINIATURE

MPG SERIES MUSTANG
PUSHBUTTON SWITCHES

Tyco Electronics

Just Added



Includes cap. Solid silver with gold flash contacts rated 6A @ 125VAC, 3A @ 250VAC, 4A @ 28VDC. Gold flash wire/lug terminals. Bushing: 0.470" L: 1/32-32UNS-2A. Dielectric strength: 1,500Vrms. Life expectancy: 50,000 operations. SPDT W x L: 0.320 x 0.510". DPDT W x L: 0.510 x 0.510". 4PDT W x L: 0.890 x 0.510".

Mfg. Part No.	Circuitry	Action	Stock No.	Price Each	
				1-9	10-24
● MPG206N04	DPDT	Push-On/Off	69K7039	13.99	12.77
● MPG206RPC04	DPDT	Momentary	96K3349	17.07	16.50
● MPG306D04	3PDT	Push-On/Off	41M6767	19.21	17.52
● MPG306F04	3PDT	Momentary	16M2443	19.21	17.53
● MPG406R04	4PDT	Momentary	04M6989	23.11	21.09

(4771)

MPS SERIES
SNAP-ACTING
PUSHBUTTONS

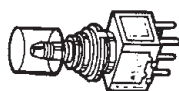
Tyco Electronics



MPS-103F-RA



MPS-103F-PC



MPS-203

Silver contacts rated 3 amps @ 115VAC or 28VDC. Wire lugs or PCB terminals: PC suffix = vertical mount; RA suffix = right angle mount. MPS-103 series W x L: 0.320 x 0.510". MPS-203 series W x L: 0.510 x 0.510". Terminals: silver. Life expectancy: 50,000 operations. Order C-22 or C-23 series switch caps separately, go online or call.

Mfg. Part No.	Circuitry	Action	Stock No.	Price Each	
				1-24	25-49
● MPS103D04	SPDT	Push-On/Off	02M8656	13.15	12.92
● MPS103DPC04	SPDT	Push-On/Off	16M2444	13.49	13.25
● MPS103F04	SPDT	Momentary	69K7042	6.47	6.01
● MPS103FRA04	SPDT	Momentary	16M2445	13.08	11.90
● MPS203N04	DPDT	Push-On/Off	16M2446	18.39	16.72

(4768)

MSPM SERIES MAGNETIC-
REED MOMENTARY LONG
LIFE PUSHBUTTON SWITCHES

Tyco Electronics



Just Added

Glass-to-metal hermetically-sealed gold contacts rated 1.0VA optimum (100mA max., 100VDC max.). Bushing length: 0.320" L: 1/4-40 UNS-2A. Dia.: 0.510". Life expectancy: 5,000,000 cycles @ 0.1VA; 50,000 cycles @ 5VA. With cap.

Mfg. Part No.	Action	Cap Color	Term.	Stock No.	Price Each		
					1-24	25-49	50-99
● MSPM101B004	N.C.	Black	Pin	86K9443	25.53	24.70	23.58
● MSPM101B104	N.C.	Black	Lug	02M5779	27.96	25.51	24.04
● MSPM101C204	N.O.	Red	Pin	16M2800	36.57	35.15	34.20
● MSPM101C104	N.O.	Red	Lug	02M5780	24.49	22.95	21.59
● MSPM101CS104	N.O.	Red	Lug	15M6259	22.73	21.31	20.05

(4772)

MSP-3/MSPS SERIES
SPST PUSHBUTTONS

Tyco Electronics

- Include Cap



MSPS103C

Silver-plated brass contacts rated 3A @ 125VAC, for over-travel type MSP; 0.5A @ 125VAC for butt contact MSPS. Life expectancy: 10,000 cycles @ rated current. Silver plate solder terminals. MSP series Dia.: 0.410". MSPS series Dia.: 0.310". Bushing 1/4-40 UNS-2A.

MSP-3 SERIES MOMENTARY PUSHBUTTON SWITCHES

Mfg. Part No.	Action	Plunger	Bushing L	Stock No.	Price Each	
					1-24	25-49
● MSP103B04	N.C.	Black	0.235"	16M2449	4.52	4.24
● MSP103C04	N.O.	Red	0.235"	84K8087	3.32	3.15
● MSP103C004	N.O.	Black	0.235"	16M2450	4.98	4.57
● MSP103C204	N.O.	Red	0.374"	06M4169	6.36	5.64

► CONTINUED ►

MSP-3/MSPS SERIES SPST PUSHBUTTONS (CONT.)

MSPS SERIES MOMENTARY PUSHBUTTON SWITCHES

Mfg. Part No.	Action	Plunger	Bushing L	Stock No.	Price Each	
					1-24	25-49
● MSPS103B	N.C.	Black	0.245"	57F2072	1.57	1.44
● MSPS103C	N.O.	Red	0.245"	61F1215	3.01	2.67
● MSPS103C0	N.O.	Black	0.245"	98F181	1.59	1.45

(4773)

MSPF SERIES MOMENTARY
PUSHBUTTONS

Tyco Electronics

Silver-plated brass contacts rated 0.5A @ 125VAC. Dielectric strength: 1000Vrms. Life expectancy: 10,000 operations at rated current. SPST, but mfg. part no. MSPF-101BC is 2-circuit contact. Silver plate solder terminals. Bushing length is 0.370" 1/32-32 UNS2A. Complete with cap and decorative nut.



Mfg. Part No.	Action	Plunger	Stock No.	Price Each		
				1-9	10-24	25-49
● MSPF-101B	N.C.	Black	11F402	7.56	6.71	6.10
● MSPF-101C	N.O.	Red	11F403	4.19	3.99	3.80
● MSPF-101BC(O)	N.O./N.C.	Black	11F404	4.77	4.34	3.98

(4765)

MCPAS SERIES 12mm
PUSHBUTTON SWITCHES

Features:

- Eight plunger colours
- Flat plunger top allowing marking
- Antirotation bushing.
- New solder lug terminal

Just Added

Specifications:

- Contact rating: 400mA at 32Vac; 100mA at 50Vdc; 125mA at 125Vac
- Contact resistance: 50mΩ
- Dielectric strength: 1000Vrms.
- Electrical life: 500,000 cycles
- Operating force: 2N to 5N
- Contact bounce: 10ms
- Mechanical life: 1,000,000 cycles



SNAP-IN BUSHING

Mfg. Part No.	Current (A)	Circuitry	Action	Actuator Color	Termination	Stock No.	Price Each
							1-99
● MCPAS681M1CE2	125	SPST	Off-(On)	Black	Solder Lug	12P7695	2.52
● MCPAS681M1CE7	125	SPST	Off-(On)	Blue	Solder Lug	12P7699	2.52
● MCPAS681M1CE6	125	SPST	Off-(On)	Green	Solder Lug	12P7698	2.52
● MCPAS681M1CE3	125	SPST	Off-(On)	Red	Solder Lug	12P7696	2.52
● MCPAS681M1CE5	125	SPST	Off-(On)	Yellow	Solder Lug	12P7697	2.52

THREADED BUSHING

● MCPAS682M1CE2	125	SPST	Off-(On)	Black	Solder Lug	12P7700	2.52
● MCPAS682M1CE7	125	SPST	Off-(On)	Blue	Solder Lug	12P7704	2.52
● MCPAS682M1CE3	125	SPST	Off-(On)	Red	Solder Lug	12P7701	2.52
● MCPAS682M1CE6	125	SPST	Off-(On)	Green	Solder Lug	12P7703	2.52
● MCPAS682M1CE5	125	SPST	Off-(On)	Yellow	Solder Lug	12P7702	2.52

(142183)

R13 SERIES
MINIATURE
PUSHBUTTON
SWITCHES

Just Added



Fig. 1



Fig. 2

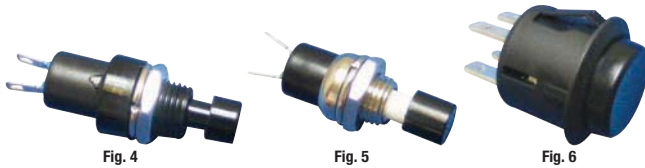


Fig. 3

► CONTINUED ►

SWITCHES – PUSHBUTTON MINIATURE • SWITCHES – PUSHBUTTON STANDARD

R13 SERIES MINIATURE PUSHBUTTON SWITCHES (CONT.)



Features:

- Illuminated actuators are moulded in PC
- Snap-in mounting, easy to install switch into panel
- Water proof and dust proof to fit IP-66
- R13-527, R13-548: Nylon frame and silver plated brass terminals
- R13-24: PBT actuators, nickel plated metal frame and phenolic base
- R13-509: Nylon actuator and frame and silver plated brass terminals
- R13-23: ABS actuator and phenolic base
- R13-502: Nylon frame and silver plated brass terminals; M types are nickel plated brass metal frame

Specifications:

- Contact rating: 3A at 125Vac; 1.5A at 250Vac; R-13-527: 10A at 125Vac; 6A at 250Vac
- Maximum contact resistance : 50mΩ
- Minimum insulation resistance : 500Vdc, 100MΩ
- Dielectric strength : 1000Vac for 1 minute

Mfg. Part No.	Fig.	Current (A)	Circuitry	Action	Actuator Color	Termination	Stock No.	Price Each
● R13-502A-05-B	1	3	SPST	Off-(On)	...	Solder Lug	03P2485	1.14
● R13-502A-05-R	1	3	SPST	Off-(On)	...	Solder Lug	03P2486	1.14
● R13-502MA-05-B	1	3	SPST	Off-(On)	...	Solder Lug	03P2487	1.76
● R13-502MA-05-R	1	3	SPST	Off-(On)	...	Solder Lug	03P2488	1.76
● R13-502MC-05-B	1	3	SPDT	On-(On)	...	Solder Lug	03P2489	2.08
● R13-502MC-05-R	1	3	SPDT	On-(On)	...	Solder Lug	03P2490	2.08
● R13-23A-05-BB	2	3	SPST	Off-(On)	Black	Solder Lug	03P2459	1.28
● R13-23A-05-BG	2	3	SPST	Off-(On)	Green	Solder Lug	03P2460	1.28
● R13-23A-05-BR	2	3	SPST	Off-(On)	Red	Solder Lug	03P2461	1.28
● R13-23A-05-BW	2	3	SPST	Off-(On)	White	Solder Lug	03P2462	1.28
● R13-23B-05-BB	2	3	SPST	On-Off	Black	Solder Lug	03P2463	1.23
● R13-23B-05-BG	2	3	SPST	On-Off	Green	Solder Lug	03P2464	1.23
● R13-23B-05-BR	2	3	SPST	On-Off	Red	Solder Lug	03P2465	1.23
● R13-23B-05-BW	2	3	SPST	On-Off	White	Solder Lug	03P2466	1.23
● R13-548A-05-BB	3	3	SPST	Off-(On)	Black	Solder Lug	03P2503	1.28
● R13-548B-05-BB	3	3	SPST	On-Off	Black	Solder Lug	03P2504	1.23
● R13-548CL-05-BG	3	3	SPST	...	Green	Solder Lug	03P2505	1.47
● R13-548CL-05-BR	3	3	SPST	...	Red	Solder Lug	03P2506	1.47
● R13-548DL-05-BG	3	3	SPST	...	Green	Solder Lug	03P2507	1.43
● R13-548DL-05-BR	3	3	SPST	...	Red	Solder Lug	03P2508	1.43
● R13-509A-05-BB	4	3	SPST	Off-(On)	Black	Solder Lug	03P2491	0.86
● R13-509A-05-BR	4	3	SPST	Off-(On)	Red	Solder Lug	03P2492	0.86
● R13-509B-05-BB	4	3	SPST	On-(Off)	Black	Solder Lug	03P2493	0.86
● R13-509B-05-BR	4	3	SPST	On-(Off)	Red	Solder Lug	03P2494	0.86
● R13-24A-05-BB	5	3	SPST	Off-(On)	Black	Solder Lug	03P2471	1.05
● R13-24A-05-BR	5	3	SPST	Off-(On)	Red	Solder Lug	03P2472	1.05
● R13-24AL-05-BB	5	3	SPST	Off-(On)	Black	Solder Lug	03P2473	1.09
● R13-24AL-05-BR	5	3	SPST	Off-(On)	Red	Solder Lug	03P2474	1.09
● R13-24B-05-BB	5	3	SPST	On-(Off)	Black	Solder Lug	03P2475	1.05
● R13-24B-05-BR	5	3	SPST	On-(Off)	Red	Solder Lug	03P2476	1.05
● R13-24BL-05-BB	5	3	SPST	On-(Off)	Black	Solder Lug	03P2477	1.09
● R13-24BL-05-BR	5	3	SPST	On-(Off)	Red	Solder Lug	03P2478	1.09
● R13-527C-02-BB	6	10	SPST	Off-(On)	Black	Quick Connect	03P2499	1.76
● R13-527C2-02-BB	6	10	SPST	Off-(On)	Black	Quick Connect	03P2500	2.32
● R13-527A-02-BB	6	10	DPST	Off-(On)	Black	Quick Connect	03P2495	1.96
● R13-527A2-02-BB	6	10	DPST	Off-(On)	Black	Quick Connect	03P2496	2.86
● R13-527B-02-BB	6	10	DPST	On-Off	Black	Quick Connect	03P2497	2.20
● R13-527B2-02-BB	6	10	DPST	On-Off	Black	Quick Connect	03P2498	2.82
● R13-527D-02-BB	6	10	DPST	On-Off	Black	Quick Connect	03P2501	1.71
● R13-527D2-02-BB	6	10	DPST	On-Off	Black	Quick Connect	03P2502	2.29

(142171)



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(148833)

1200 SERIES MOMENTARY PUSHBUTTON SWITCHES



Fig. 1



Fig. 2



Fig. 3

- Momentary Action Contact: SPST
- Contact Rating: 4A @ 250VAC or 8A @ 125VAC or 4A @ 24VDC
- Actuator Color: Black Polyamide
- Silver Contacts and Terminals
- Mounting Hardware Included
- Carrying Case: Black Polyamide
- Dimensions: 0.551W x 0.6691L x 0.834"D
- X209 Type is UL Recognized, CSA Certified, VDE Approved

Mfg. Part No.	Fig.	Action	Terminals	Stock No.	Price Each
● 1212A2	1	NC	Solder Lug/Quick Connect	96C6176	9.13
● 1213A2UU	1	NO	Solder Lug/Quick Connect	89C2441	9.62
● 1222A2	1	NC	Screw Type	96C6179	10.50
● 1223A2UU	1	NO	Screw Type	86C8133	9.88
● 1202A2	2	NC	Screw Type w/Clamp	96C6174	9.28
● 1203A2UU	2	NO	Screw Type w/Clamp	96C6175	11.18
● 1233A2X209UU	3	NO	Solder Lug/Quick Connect	96C6180	15.03

(72940)

IA SERIES LOW PROFILE PUSHBUTTON SWITCHES



- Resistant to frost, sand and hydrocarbons
- Front panel sealed to IP67 standards
- Tactile feedback
- Current/voltage rating: 2A 24VDC
- Contacts: silver
- Electrical life: 1 million cycles
- Operating temperature: -20°C to +65°C

IA series pushbutton switches are recommended for applications requiring protection from dust, sand, water and other contaminants. Potential applications include off road vehicles, farm equipment, machine tools, food processing equipment and medical instrumentation.

Mfg. Part No.	Style	Function	Color	Stock No.	Price Each
● IAR3F1200	Round	SPST-NO	Black	33K4568	20.59
● IAR3F1300	Round	SPST-NO	Green	34K0594	20.59
● IAR3F1500	Round	SPST-NO	White	34K0596	20.59
● IAR3F1600	Round	SPST-NO	Red	34K0597	20.59
● IAR3F1900	Round	SPST-NO	Orange	34K0598	18.39

(84998)

IP SERIES PUSHBUTTON SWITCHES FOR HARSH ENVIRONMENTS



- Single-Pole N.O. Momentary Action with Double Break
- Totally Sealed Compact Construction
- Ergonomically Sculptured Bezels

Fig. 2

Fig. 3

Contact rating: 500mA @ 48VAC, 200mA @ 50VDC or 200mA @ 250VDC. Dielectric strength: 1500Vrms min. Operating temperature: -40°C to +125°C. Contacts: gold-plated silver. Actuator colors available include: blue, black, green, yellow, red and orange; go online or call. Meets IEE enclosure IP67 classification.

ROUND-SOLDER LUG TERMINALS

Mfg. Part No.	Fig.	Circuitry	Function	Actuator Color	Stock No.	Price Each
● IPR3SAD2	1	SPST-NO	Off-(On)	Black	19C7988	17.95
● IPR3SAD6	1	SPST-NO	On-(On)	Red	19C7989	15.10

ROUND SHORTER BODY SOLDER LUG TERMINALS

Mfg. Part No.	Fig.	Circuitry	Function	Actuator Color	Stock No.	Price Each
● ISR3SAD200	1	SPST-NO	On	Black	73C8901	12.53
● ISR3SAD300	1	SPST-NO	On	Red	49H6584	14.61

ROUND ILLUMINATED 20AWG WIRE LEADS

Mfg. Part No.	Fig.	Circuitry	Function	Actuator Color	Stock No.	Price Each
● IPR3FAD2LOS	2	SPST-NO	On	Black/Red LED	84C8865	27.19
● IPR3FAD2LOG	2	SPST-NO	On	Black/Green LED	07J1337	29.40

▶ CONTINUED ▶

SWITCHES – PUSHBUTTON STANDARD & PUSHBUTTON MINIATURE

IP SERIES PUSHBUTTON SWITCHES FOR HARSH ENVIRONMENTS (CONT.)

ROUND-STRANDED 20 AWG WIRE LEADS

Mfg. Part No.	Fig.	Circuitry	Function	Actuator Color	Stock No.	Price Each
● IPR3FAD2	2	SPST-NO	On-(On)	Black	04M6171	18.61
● IPR3FAD3	2	SPST-NO	On	Black	72C7935	22.09
● IPR3FAD6	2	SPST-NO	On-(On)	Red	78M7408	18.61
● IPR3FAD7/1	2	SPST-NO	On	Red	72C7340	25.79

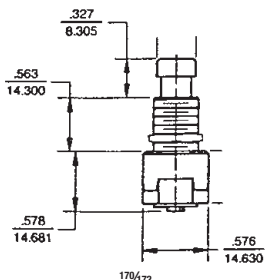
SQUARE-SOLDER LUG TERMINALS

● IPC3SAD2	3	SPST-NO	On-(On)	Black	19C7982	15.10
● IPC3SAD3	3	SPST-NO	On-(On)	Green	19C7983	15.10
● IPC3SAD5	3	SPST-NO	On-(On)	Yellow	19C7984	13.93
● IPC3SAD6	3	SPST-NO	On-(On)	Red	19C7985	15.10

(64377)

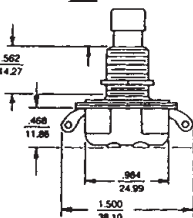
170 SERIES
PUSHBUTTON
SWITCHES

High-amp, AC pushbutton switches are suitable for shallow back panel applications. Mounting hole: 0.500" (12.70). Silver slow-make, slow-break contacts and rated 15A/125VAC. Screw terminals, metal cap. UL recognized, CSA certified.



Mfg. Part No.	Switch Action	Stock No.	Price Each
● 170	SPNC On-(Off)	73K1395	1-24 9.40 25-49 7.29 50-99 6.41
● 172	SPNO Off-(On)	73K4049	1-24 11.27 25-49 9.64 50-99 8.05

(5123)

110 SERIES
PUSHBUTTON SWITCHES

AC/DC switches are equipped with a quick-make, quick-break contact mechanism. Mounting hole: 0.500" (12.70). Rated 6A/125VAC, 3A/250VAC. SPST On-Off switch action. Metal cap. UL recognized, CSA certified.

Mfg. Part No.	Terminals	Stock No.	Price Each
● 110-SP	Screw	76K1099	1-24 10.11 25-49 9.55 50-99 9.20
● 111-16P	Wire	76K1100	1-24 10.11 25-49 9.55 50-99 9.20

(5124)

554 SERIES COMPUTER GRADE
SINGLE AND DUAL LAMP
SWITCH AND INDICATOR BASES

Fig. 1 Snap-in Bezel Mount

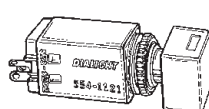
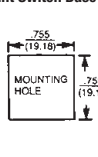
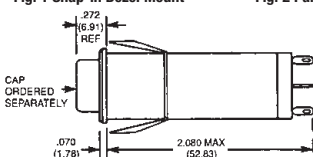


Fig. 2 Panel Mount Switch Base



Mount on panels .062" (1.57mm) to .188" (4.76mm) thick

Choice of snap-in bezel mount or rear panel mount with hardware. Contact rating is indicated by 4th digit of mfg. part no. in tables below: "1", "5" = snap-action silver contacts rated at 30VDC or 125VAC max.; "2", "6" = snap-action gold contacts rated 30VDC or 125VAC max.; and "3" = wiping-action gold contacts rated 30VDC max. All have 50mΩ

➔ CONTINUED ➔

554 SERIES COMPUTER GRADE SINGLE AND DUAL LAMP SWITCH AND INDICATOR BASES (CONT.)

contact resistance. Life expectancy: momentary-750,000/alternate-250,000 operations. Solder/quick connect terminals. UL listed, CSA certified. Units accept scratch-resistant plastic pushbutton caps; go online or call. Order T-1¼ midget flanged base lamps separately; go online or call.

MOMENTARY ACTION 0.5 TO 7 AMP POWER SWITCH, SPDT

Mfg. Part No.	Accepts Cap Size	Fig.	Stock No.	Price Each
554-1121	All*	2	57F3000	1-24 86.28 25-49 80.47
● 554-1121-211	⅝" sq.	1	57F3035	48.40 45.14
● 554-1121-311	⅝" x ¾"	1	57F3036	84.12 78.45
● 554-1121-411	¾" sq.	1	25F1006	40.42 37.70
● 554-1121-511	¾" x 1"	1	20F917	91.96 85.76

MOMENTARY ACTION 0.5 TO 7 AMP POWER SWITCH, DPDT

554-1221	All*	2	57F3002	110.27 102.84
● 554-1221-211	⅝" sq.	1	57F3039	104.31 97.29
● 554-1221-311	⅝" x ¾"	1	57F3040	71.93 67.08
● 554-1221-411	¾" sq.	1	25F1007	59.05 55.07
● 554-1221-511	¾" x 1"	1	20F918	139.09 129.72

MOMENTARY ACTION .015 TO 1 AMP SWITCH, SPDT

● 554-2121-211	⅝" sq.	1	61M2825	54.68 51.00
● 554-2121-411	¾" sq.	1	52M1880	51.54 48.07

MOMENTARY ACTION .015 TO 1 AMP SWITCH, DPDT

● 554-2221-211	⅝" sq.	1	25F1011	175.00 163.21
● 554-2221-311	⅝" x ¾"	1	14M6786	98.25 91.64
● 554-2221-411	¾" sq.	1	25F1013	114.99 107.24
● 554-2221-511	¾" x 1"	1	20F920	175.00 163.21

MOMENTARY ACTION, 1 TO 50 MILLIAMP SWITCH, SPDT

554-3121	All*	2	20F913	113.16 105.54
● 554-3121-411	¾" sq.	1	20F927	77.23 72.03

MOMENTARY ACTION 1 TO 50 MILLIAMP SWITCH, DPDT

554-3221	All*	2	20F914	104.22 97.20
● 554-3221-211	⅝" sq.	1	20F929	88.63 82.66

ALTERNATE ACTION 0.5 TO 7 AMP POWER SWITCH, SPDT

● 554-1131-211	⅝" sq.	1	57F3037	72.28 67.42
554-1131-511	¾" x 1"	1	20F921	75.51 70.43

ALTERNATE ACTION 0.5 TO 7 AMP POWER SWITCH, DPDT

554-1231	All*	2	57F3003	64.17 59.85
● 554-1231-311	⅝" x ¾"	1	57F3042	84.07 78.41
● 554-2121-211	¾" sq.	1	61M2825	54.68 51.00
● 554-1231-511	¾" x 1"	1	20F922	139.09 129.72

MATCHING INDICATORS

● 554-0001-211	⅝" sq.	1	61M2821	66.78 62.29
● 554-0001-411	¾" sq.	1	25F1022	77.97 72.72
● 554-1231-411	¾" x 1"	1	61M2824	83.46 77.84

* All single lamp cap types 324, 325, 326, 327, 328.

(5096)

513 SERIES
PUSHBUTTON
SWITCH BASES

Fig. 1 Panel-Mount

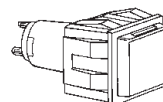


Fig. 2 Snap-In

Choice of rear-panel mount or snap-in mount. Hardware included. UL listed, file no. E51665. Complete lighted pushbutton switch requires that you order pushbutton cap sold separately; go online or call. T-1¼ midget flange base incandescent lamp; go online or call.

MOMENTARY ACTION SWITCH 3 AMP; 125VAC/30VDC;
GOLD-PLATED CONTACT

Mfg. Part No.	Accepts Cap Size	Fig.	Contact Circuit	Stock No.	Price Each
513-0101-604	All	1	SPST NO	60F1000	1-24 67.48
513-0301-604	All	1	Two Circuit	60F1002	93.69
● 513-0306-001	⅝" SQ.	2	Two Circuit	45F636	247.48
● 513-0310-001*	¾"x1"	2	Two Circuit	45F639	210.36
● 513-0311-001	¾" sq.	2	Two Circuit	45F724	210.36

*With built-in barrier

ALTERNATE ACTION POWER SWITCH 5 AMP-RESISTIVE;
2 AMP-INDUCTIVE; 125VAC/30VDC

Mfg. Part No.	Accepts Cap Size	Fig.	Contact Circuit	Stock No.	Price Each
513-1401-604	All	1	SPDT	57F3702	1-24 181.90
513-1501-604	All	1	Two Circuit	57F3701	95.33
513-1506-001	⅝" sq.	2	Two Circuit	45F644	297.48

➔ CONTINUED ➔

SWITCHES – PUSHBUTTON STANDARD

513 SERIES PUSHBUTTON SWITCH BASES (CONT.)

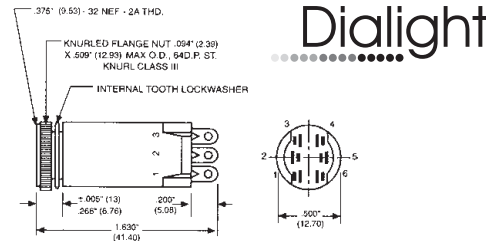
MOMENTARY SNAP ACTION 5 AMP-RESISTIVE;
2 AMP-INDUCTIVE; 125VAC/30VDC

Mfg. Part No.	Accepts Cap Size	Fig.	Contact Circuit	Stock No.	Price Each
513-1601-604	All	1	SPDT	45F494	74.17
513-1701-604	All	1	Two Circuit	57F3700	82.92

(5083)

922 SERIES
MOMENTARY
ILLUMINATED
PUSHBUTTON
SWITCH

T-1 3/4 midget flange base. Uses 908 Series caps. Incandescent lamp or LED lamp.



Recommend Mounting Hole 9.58 ± .05 DIA. (.377 ± .002)

Mfg. Part No.	Switch Forms	Stock No.	Price Each
922-1524-525	Normally Open	45F733	58.51 25-49

(13030)

SERIES 44 OIL AND
WATERTIGHT DUAL
PUSHBUTTON

Features:

- Combines On and Off momentary pushbuttons plus indicator in a single unit
- 2 1NO/1NC contact blocks included with switch units
- Large buttons for easy operation
- Chrome-plated front bezel
- Green plus red lens
- Blue and white LEDs available; go online or call
- Rating: 10A/660VAC
- Silver-Nickel Alloy Contacts
- Recessed Screw Terminals
- Mount in a 22.5mm dia. cut-out (0.885")
- NEMA 4 & 13 and IP65 rated
- Operating Temperature: -12 to +140°F

Use 4-Step Component Process to Assemble Complete Switch:

- STEP 1: Choose switch
- STEP 2: Choose illumination (optional)
- STEP 3: Choose lampholder (required for illumination)
- STEP 4: Choose tools (optional)

STEP 1: SWITCH UNITS WITH CONTACT BLOCK

Mfg. Part No.	Description	Stock No.	Price Each
EUS-44-771.2/003	Lens Marked I + O	30C8262	46.83
EUS-44-770.2004	Unmarked Lens	96H5900	45.88

STEP 2: ILLUMINATION

INCANDESCENT BULBS

Mfg. Part No.	Voltage (V)	Stock No.	Price Each
10-1406.1369	6	88C0671	2.51
10-1409.1329	12	19C2536	2.18
10-1412.1279	24	76K1090	2.07
10-1422.1179	110	01M9805	4.89

SINGLE CHIP LEDs

Mfg. Part No.	Voltage	Color	Stock No.	Price Each
10-2512.1142	24VAC/DC	Red	76K1096	12.04
10-2512.1144	24VAC/DC	Yellow	76K1097	12.40
10-2512.1145	24VAC/DC	Green	76K1098	12.04
10-2H24.2052	130VAC	Red	73K3636	12.04
10-2H24.2054	130VAC	Yellow	73K3639	12.40
10-2H24.2055	130VAC	Green	97J9860	12.40

STEP 3: LAMP HOLDER

Mfg. Part No.	Description	Stock No.	Price Each
44-524	Lamp Holder	30C8520	5.66

STEP 4: TOOLS

Mfg. Part No.	Description	Stock No.	Price Each
44-935	Mounting Tool and Lamp/LED remover	01H3894	7.71

(68183)

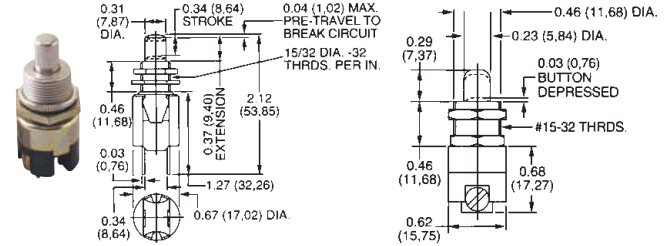
8400 SERIES GENERAL
PURPOSE AC RATED
PUSHBUTTON SWITCHES

Fig. 1
3/4A @ 125V
1/4A @ 250V
0.09 (2.29) BUTTON TRAVEL TO MAKE CONTACT

Fig. 2
3A @ 125V
0.09 (2.29) BUTTON TRAVEL TO MAKE CONTACT

- Slow-Make, Slow-Break Contact Mechanism
- Mfg. part no. 8442K4 is rated 6A @ 125V, and 3A @ 250V
- Mfg. part no. 8444K4 is rated 15A @ 125V, and 10A @ 250V

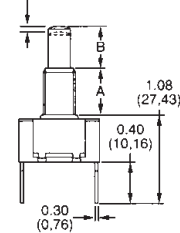


Fig. 3
15A @ 125V
10A @ 250V

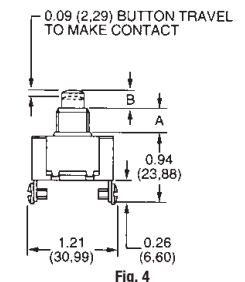


Fig. 4

Light-duty momentary contact switches. Mounting hardware consists of one hexagon nut and one nickel-plated facenut. UL recognized, CSA certified except mfg. pat no. 8440K2 and 8440K3. 1/8" bushings except mfg. part no. 8411K13 (1/4"). Mfg. part no. 8411K11 and 8411K13 also feature combination spade/solder lug terminals.

SPST-1NC MOMENTARY

Mfg. Part No.	Fig.	Terminals	Stock No.	Price Each
8411K7	1	Screw	20M3072	6.43 25-49 50-99
8411K8	1	S. Lug	20M3073	5.41 5.95 4.00

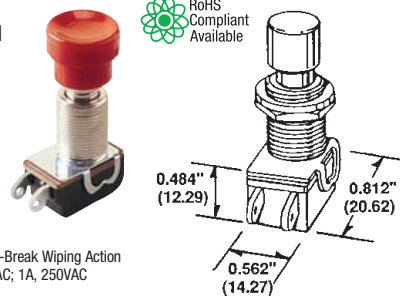
SPDT-1NO/1NC MOMENTARY

Mfg. Part No.	Fig.	Terminals	Stock No.	Price Each
8434K2	3	Screw	11M1851	15.63 14.47 11.56

SPST-1NO MOMENTARY

Mfg. Part No.	Fig.	Terminals	Stock No.	Price Each
8442K4	4	Screw	11M1855	11.36 10.52 8.40
8444K2	3	Spade	20M3077	11.98 11.09 8.86
8444K4	4	Screw	11M1856	12.34 11.43 9.13
8411K11	1	Comb.	11M1850	4.82 4.47 3.57
8411K12	1	Screw	20M3070	5.84 5.41 4.32
8411K13	1	Comb.	20M3071	5.08 4.70 3.76
8440K2	2	S. Lug	11M1852	17.31 16.03 12.80
8440K3	2	Screw	11M1853	19.06 17.65 14.10

(5013)

MOMENTARY
PUSHBUTTON
SWITCHES

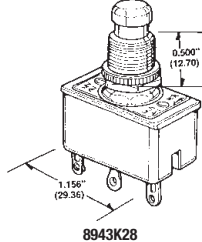
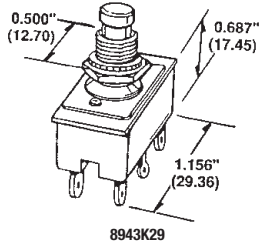
- Slow-Make/Slow-Break Wiping Action
- Amps: 3A, 125VAC; 1A, 250VAC

Suit instrumentation applications. AC switch (SPST); 1 circuit model with solder lugs. 1/16 HP. Bushing length: 0.562". Hardware included. Order mfg. part nos. 53-3338 (black) or 53-3338-2 (red) snap-on switch caps separately; go online or call. UL recognized, CSA certified.

Mfg. Part No.	Action	Button	Stock No.	Price Each
7835K11A	On-(Off)	Metal	11M1824	21.12 19.21 18.07
7836K11A	Off-(On)	Metal	11M1827	21.12 19.21 18.07
7835K11C	On-(Off)	Black nylon	11M1825	23.44 21.33 20.05
7836K11C	Off-(On)	Black nylon	11M1828	23.14 21.05 19.80
7835K11D	On-(Off)	Red nylon	11M1826	23.44 21.33 20.05
7836K11D	Off-(On)	Red nylon	11M1829	23.14 21.05 19.80
7206K104	Off-(On)	Red nylon	12M6717	19.82 18.03 16.96

(5002)

SWITCHES – PUSHBUTTON STANDARD

MOMENTARY PUSHBUTTON
AC/DC SWITCHES

- Quick-Make/Quick-Break Wiping Action
- Amps: 6A, 125VAC; 3A, 250VAC

- Bushing: 0.500"

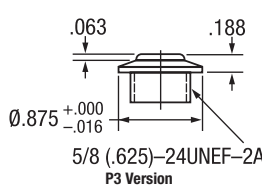
Hardware supplied. $\frac{1}{16}$ " diameter. 894 series listed have solder lug terminals. UL recognized.

Mfg. Part No.	Circuits	Action	Stock No.	Price Each		
				1-9	10-24	25-49
● 8943K29	DPST	Off-(On)	11M1868	24.71	22.42	21.18
● 8943K28	SPDT	On-(On)	11M1867	31.66	28.73	27.14

(5003)

SEALED SNAP-ACTION
PUSHBUTTON SWITCHES

Features: High contact pressure-tactile feel, moisture proof, corrosion resistant. W3 suffix indicates supplied with "W" adapter. P3 suffix indicates supplied with "P" adapter. Rated: 15A @ 120VAC; 7.5A @ 240VAC and 10A @ 25VDC. Electrical life 25,000 operations minimum @ rated load. UL listed.



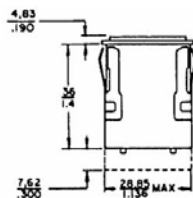
Mfg. Part No.	Circuit	Stock No.	Price Each	
			1-9	10+
W101P3	SPST N.O	97F9019	44.07	43.53
W101W3	SPST N.O	97F9020	46.30	45.72
W102P3	SPST N.C	97F9021	46.30	45.72
W103P3	SPDT-2	97F9023	40.72	40.22
W103W3	SPDT-2	97F9024	36.64	36.19

(4901)

AML11 SERIES LIGHTED &
NON-LIGHTED SOLID-STATE
PUSHBUTTON DISPLAY SWITCHES

Honeywell
Sensing and Control

Just Added



Square

Rectangular

- 4.5-24VDC Sinking Momentary Action
- Max. Supply Current: 3.5mA (Released)

Hall-effect reliability and low-volt signals interface with nearly all DC logic level loads. Black bezel. Mfg. part nos. with 9th digit "2" have 0.110" x 0.020" (2.79 x 0.508) solder/QC terminals; "3" have 0.025" (0.635) sq. PC terminals. Alternate action units are also available; replace "A" suffix in mfg. part no. with "E" suffix. Panel cutout: 1.14" x 0.750". Lighted units use incandescent T-1 ¼ wedge base lamp nos. 73, 85, 86, ordered separately on page 1735. Order AML51 switch buttons separately on page 1735.

NON-LIGHTED

Mfg. Part No.	Terminal	Bezel	Stock No.	Price Each		
				1-24	25-49	50-99
● AML11BBA2EA	Q-C	Square	20C8286	17.08	16.72	16.28

LIGHTED

● AML11CBA2EA	Q-C	Square	29C5712	27.75	27.11	26.60
● AML11EBA2EA	Q-C	Rectangle	24C9274	21.01	20.53	20.14
● AML11CBA3EA	PC	Square	25C4210	24.58	24.01	23.56
● AML11FBA3EA	PC	Rectangle	29C3909	25.95	25.35	24.87

(4860)

**Expert
technical
support**

Chat online to our team of engineers, or connect to them through your representative.

(148838)

1734

AML21 SERIES INCANDESCENT
AND NON-LIGHTED
ELECTRONIC CONTROL
PUSHBUTTON SWITCHES

Just Added

Honeywell
Sensing and Control



- Mfg. part nos. with 10th digit "A": Silver Contacts Rated 2A, 250VAC and 24VDC Resistive; 3A, 125VAC
- Mfg. part nos. with 10th digit "B": Gold Contacts Rated 100mA, 12VAC/DC Resistive

Meet CEE requirements. Terminals are solder or quick-connect, except those with ninth digit "3", which are PC board or push-on. Panel cutout: 0.75" square. Lighted units use incandescent T-1 ¼ wedge base lamp nos. 73, 85, 86, ordered separately on page 1735. Order AML51 switch buttons separately on page 1735.

SQUARE DISPLAY NON-LIGHTED

Mfg. Part No.	Circuitry	Action	Stock No.	Price Each		
				1-24	25-49	50-99
● AML21BBA2AA	SPDT	(On)	23F4409	11.50	11.26	10.96
● AML21BBA2AC	DPDT	(On)	23F4325	14.34	13.10	12.08
● AML21BBA2BA	SPDT	(On)	23F4410	13.57	13.29	12.94
● AML21BBA2AB	SPDT	On	50F9237	11.33	10.35	9.55

SQUARE DISPLAY LIGHTED, SINGLE LAMP CIRCUIT

● AML21CBA2AA	SPDT	(On)	23F4411	14.62	14.32	13.94
● AML21CBA2BA	SPDT	(On)	23F4328	23.67	17.95	17.26
● AML21CBA3AA	SPDT	(On)	23F4331	15.14	14.03	13.07
● AML21CBA3BA	SPDT	(On)	23F4333	18.11	17.34	17.00
● AML21CBA2AB	SPDT	On	23F4412	15.07	14.76	14.37
● AML21CBA2AC	DPDT	(On)	23F4413	18.19	17.82	17.35
● AML21CBA2AD	DPDT	On	23F4414	18.58	18.20	17.72
● AML21CBA3AC	DPDT	(On)	23F4332	17.67	17.30	16.85

RECTANGULAR DISPLAY LIGHTED, SINGLE LAMP CIRCUIT

● AML21FBA2AA	SPDT	(On)	23F4417	18.37	15.66	13.77
● AML21FBA2BA	SPDT	(On)	23F4339	19.52	18.69	18.32
● AML21FBA3BA	SPDT	(On)	23F4342	19.52	18.69	18.32
● AML21FBA2AB	SPDT	On	23F4337	18.31	17.38	16.46
● AML21FBA2AC	DPDT	(On)	23F4418	19.48	19.08	18.58
● AML21FBA2AD	DPDT	On	23F4338	18.74	17.11	15.79

RECTANGULAR DISPLAY NON-LIGHTED

● AML21EBA2AA	SPDT	(On)	23F4334	12.73	12.47	12.14
● AML21EBA2BA	SPDT	(On)	23F4336	16.10	15.42	15.12
● AML21EBA2AC	DPDT	(On)	23F4335	15.45	14.11	13.02

RECTANGULAR LIGHTED, 2 LAMP CIRCUIT

● AML21GBA2AB	SPDT	On	51F2632	19.88	19.03	18.66
● AML21GBA2AD	DPDT	On	23F4345	22.71	22.24	21.66
● AML21GBE2AD	DPDT	On	50B5408	27.79	27.21	26.50
● AML21GBA2AA	SPDT	(On)	23F4343	18.75	18.36	17.88
● AML21GBA2BA	SPDT	(On)	50F9238	22.74	21.78	21.35

FULL GUARD, SQUARE DISPLAY LIGHTED, SINGLE LAMP CIRCUIT

● AML21JBA2AC	DPDT	(On)	51F2619	18.31	16.72	15.43
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(4864)

AML22 SERIES
ELECTRONIC
CONTROL LED
DISPLAY SWITCHES

- Momentary Action



Honeywell
Sensing and Control



Just Added



Identical to AML21 series except with high-efficiency LED display. Quick-connect terminals. UL recognized, CSA certified. Order AML52 buttons separately; go online or call.

Mfg. Part No.	LED Color	LED Voltage	Circuitry	Stock No.	Price Each		
					1-9	10-24	25-49
● AML22CBB2AA	Red	5	SPDT	84F652	23.63	22.29	21.18
● AML22CBB2AC	Red	5	DPDT	38B2725	26.75	24.42	22.53
● AML22CBB2AA*	Red	5	SPDT	23F4347	25.37	23.93	22.74
● AML22CBE2AC	Red	15	DPDT	38B2746	32.16	30.34	28.83
● AML22CBE2AD*	Red	15	DPDT	51F2621	34.41	29.34	25.81
● AML22CBF2AC*	Red	24	DPDT	51F2622	29.05	26.91	25.06
● AML22CBJ2AA*+	Yellow	5	SPDT	23F4348	25.37	23.93	22.74
● AML22CBM2AC	Yellow	24	DPDT	50B5421	27.52	25.50	23.74
● AML22CBS2AA*	Green	5	SPDT	23F4349	25.37	23.93	22.74
● AML22CBX2AC	Green	24	DPDT	92B6125	29.02	26.88	25.03

*Internal resistor to maintain LED drive current 20mA; +Alternate Action (4865)

SWITCHES – PUSHBUTTON STANDARD

AML31 SERIES POWER DUTY PUSHBUTTON SWITCHES



Honeywell
Sensing and Control

RoHS Compliant Available

- 2PST, Normally-Open, Form X
- 10A @ 125/250VAC

Rectangular units with black bezel. 0.187 x 0.020" (4.75 x 0.508) solder or quick-connect terminal. 2-pole 2 form A silver contacts. Order **AML91 series incandescent lamps** separately on this page. UL recognized, CSA certified. Order **AML51 series buttons** separately on this page.

Mfg. Part No.	Description	Circuits	Stock No.	Price Each	
				1-24	25-49
● AML31EBA4AD	Non-Lighted	Alternate Action	23F2444	28.06	25.50
● AML31FBA4AD	Incandescent	Alternate Action	23F4285	25.87	25.33
● AML31FBA4AC	Incandescent	Momentary	50F9242	25.28	24.76
● AML31FBE4AD	28V, Incandescent	Alternate Action	51F2624	19.28	...

(4921)

AML32 SERIES PUSHBUTTON SWITCHES



Honeywell
Sensing and Control

RoHS Compliant Available

- Alternate Action, DPST, Normally Open, Form X

AML32

AML32 series switch is a rectangular pushbutton unit with black bezel. Neon lamp (included), and 0.187 x 0.020" (4.75 x 0.508) solder/quick connect terminals with integral lamp circuit. UL recognized, CSA certified. Order switch buttons separately below.

PUSHBUTTON SWITCHES

Mfg. Part No.	Description	Neon Lamp Voltage/Color	Stock No.	Price Each		
				1-24	25-49	50-99
● AML32FBB7AD	Red Neon	125VAC Red	23F4354	27.85	27.28	26.56
● AML32FBB4AD	Red Neon*	125VAC Red*	23F4426	28.54	27.03	25.22
● AML32FBC7AD	Clear Neon	125VAC Clear*	23F4355	30.29	28.71	26.99
● AML32FBK4AD	Red Neon	250VAC Red	23F4356	28.87	28.27	27.53

SWITCH BUTTONS

Mfg. Part No.	Description	Stock No.	Price Each		
			1-14	15-24	25-49
● AML52N10R	Red Switch Button	23F4452	1.82	1.66	1.60
● AML52-N10K	Black Switch Button	23F4434	1.99	1.89	1.79
● AML52-N10G	Green Switch Button	50F5208	1.93	1.83	1.72
● AML52-N10W	White Switch Button	23F4435	1.90	1.80	1.69

*Isolated lamp circuit
(4924)

AML51 SWITCH BUTTONS



Honeywell
Sensing and Control

RoHS Compliant Available

For **AML11**, **AML21**, and **AML31 series** incandescent and non-lighted pushbuttons and **AML41** indicators. 0.19" thick.

SQUARE PUSHBUTTON STYLE

AML51-C10R

Mfg. Part No.	Color	Stock No.	Price Each		
			1-14	15-24	25-49
● AML51-C10A	Amber	23F4382	1.24	1.15	1.07
● AML51-C10W	White	23F4300	1.18	1.16	1.13
● AML51-C10Y	Yellow	23F4384	1.37	1.17	1.03
● AML51-C10R	Red	23F4443	1.21	1.11	1.07
● AML51-C10G	Green	23F4441	1.37	1.17	1.03

RECTANGULAR PUSHBUTTON STYLE

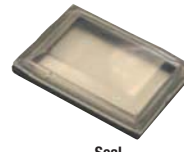
● AML51-F10A	Amber	23F4398	1.83	1.73	1.60
● AML51-F10W	White	23F4401	1.86	1.73	1.61
● AML51-F10Y	Yellow	23F4449	2.05	1.75	1.54
● AML51-F10R	Red	23F4447	1.82	1.66	1.60
● AML51-F10G	Green	23F4446	1.86	1.73	1.61

(4861)

AML75 PANEL SEALS/AML76 SWITCH GUARDS



Honeywell
Sensing and Control



Seal



Guard

Protect displays from contamination by dust, dirt, or spills. No effect on color, light intensity, or legend quality. Fit both 0.19" (4.83) standard-height square or rectangular pushbuttons.

Mfg. Part No.	Pushbutton Shape	Stock No.	Price Each		
			1-24	25-49	50-99
● AML75ABC	Square	23F4468	5.20	5.09	4.96
● AML75BBC	Rectangular	23F4469	5.15	5.05	4.92

AML76 SWITCH GUARDS

For square and rectangular pushbuttons, these clear, polycarbonate thermoplastic guards prevent accidental pushbutton operation. The word "LIFT" is molded into top front edge of guard. Bracket bright-finished stainless steel.

Mfg. Part No.	Description	Stock No.	Price Each		
			1-24	25-49	50-99
● AML76C10T01P	Square	23F4474	8.48	8.31	8.09
● AML76F10T01P	Rectangular	23F5001	8.48	8.31	8.09

(4925)

AML91 INCANDESCENT LAMPS



Honeywell
Sensing and Control

T-1 1/4 wedge base lamps for **AML 11/21/24/31/34/41 series** incandescent pushbutton switches as shown on page 1734.

Mfg. Part No.	Lamp Number	Lamp Voltage	Stock No.	Price Each	
				1-9	10-24
● AML91LA86	86	6.3	23F4473	2.63	2.47
● AML91LA73	73	14.0	23F4471	2.42	2.37
● AML91LA85	85	28.0	23F4472	2.42	2.37

(4923)

48 SERIES SEALED PUSHBUTTON SWITCHES



ITW Switches
SENSORS, SWITCHES, ELECTRONIC CONTROLS



- Meets IP67 standards
- Modular components can make over 1000 distinct parts
- Lighted or non-illuminated
- Solder Terminals
- Contact Rating: 400mA, 32VAC

Series 48 Flex-Tech sealed pushbutton is ideal for: medical equipment, instrumentation, datacom, transportation, recreational vehicles, outdoor controls, and mass transit controls. Available in momentary or alternate action with a variety of colors in keycaps; (On) = Momentary, On = Maintained.

Mfg. Part No.	Style	Circuit	Color	Stock No.	Price Each	
					1-4	5-9
● 48-1-RB-N-BK-B	Round	(On)	Black	21K5012	6.42	6.13
● 48-1-RB-N-RD-B	Round	(On)	Red	21K5013	6.42	6.13
● 48-2-RB-N-BK-B	Round	On	Black	21K5016	6.75	6.44
● 48-2-RB-N-RD-B	Round	On	Red	21K5017	7.10	6.78
● 48-1-SB-N-BK-B	Square	(On)	Black	21K5015	7.30	6.96
● 48-1-SB-N-RD-B	Square	(On)	Red	21K5014	7.30	6.96
● 48-2-SB-N-BK-B	Square	On	Black	21K5018	8.07	7.71
● 48-2-SB-N-RD-B	Square	On	Red	21K5019	8.11	7.74

(84003)

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(148843)

SWITCHES – PUSHBUTTON STANDARD

SERIES 48 DESIGNER KITS

Just Added

ITW Switches
SENSORS, SWITCHES, ELECTRONIC CONTROLS

48-EM



48-SS

- Modular design: each kit provides 1500 part number configurations
- Kit legend (part number matrix) facilitates building unique part numbers based on your application
- Detailed assembly instructions and individual components make it easy to build a complete switch
- Components meet IP67 standards

Mfg. Part No.	Description	Stock No.	Price Each	
			1-99	100-999
48-EM	Electromechanical Switch Kit	50M2224	75.60	71.82
48-SS	Solid State (Hall Effect) Switch Kit	50M2225	81.90	78.12

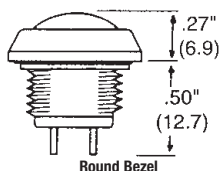
(116586)

49 SERIES SEALED PUSHBUTTON SWITCHES

RoHS Compliant Available

ITW Switches
SENSORS, SWITCHES, ELECTRONIC CONTROLS

Round Bezels



Round Bezel

- SPST-NO-DB
 - Momentary Action 400mA @ 32VAC Resistive; 100mA @ 50VDC Resistive, 125mA @ 125VAC Resistive.
- High-environment pushbutton switches designed for compact applications and protection from electrostatic discharge. Panel sealed IP67. Thermoplastic case. Gold-plated contacts.

Mfg. Part No.	Description	Stock No.	Price Each	
			1-9	
49111	Round Bezel, Black Button	01F986	9.95	
49112	Round Bezel, Red Button	01F987	9.95	
49113	Round Bezel, Green Button	01F988	9.95	
49411G	Round Bezel, Black, Green LED	01F989	16.27	
49411R	Round Bezel, Black, Red LED	01F990	16.27	

(11657)

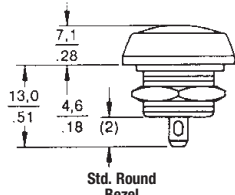
59 SERIES SEALED PUSHBUTTON SWITCHES

RoHS Compliant Available

ITW Switches
SENSORS, SWITCHES, ELECTRONIC CONTROLS

59 Series

- Zinc alloy housing
- Circuit: SPST-NO, Form X
- Dielectric strength: 1000VAC @ 125°C
- Current rating: 400mA @ 32VAC resistive; 100mA @ 50VDC resistive; 125mA @ 125VAC resistive
- Operating temperature: -55°C to 125°C (-67°F to +257°F)



Std. Round Bezel

59 series is sealed to IP67. Mounts into panels of minimum .0625" (1.5mm) and maximum 0.118" (3.00). Button material: PBT. Contacts: gold-plated palladium nickel. Terminals: gold-plated brass.

Mfg. Part No.	Bezel	Color	Stock No.	Price Each	
				1-9	
59-111	Standard Round	Black	50F1487	10.10	
59-112	Standard Round	Red	50F1488	10.10	
59-113	Standard Round	Green	50F1489	10.10	
59-211	Standard Square	Black	84F1008	9.81	

➔ CONTINUED ➔

59 SERIES SEALED PUSHBUTTON SWITCHES (CONT.)

Mfg. Part No.	Bezel	Color	Stock No.	Price Each	
				1-9	
59-212	Standard Square	Red	50F1490	9.51	
59-213	Standard Square	Green	50F1491	9.81	
59-311	High Round	Black	50F1492	10.99	
59-312	High Round	Red	50F1494	11.37	
59-313	High Round	Green	50F1493	11.37	

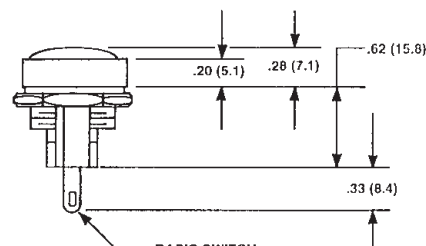
(5100)

49-59 SERIES SEALED PUSHBUTTON SWITCHES

RoHS Compliant Available

ITW Switches
SENSORS, SWITCHES, ELECTRONIC CONTROLS

Round



BASIC SWITCH Round

- Form Z: 5A @ 125/250VAC; 3A @ 28VDC Ind.
- Operating Temperature: -55°C to 105°C (-67°F to +221°F)
- Travel (nom): .09" (2.3)
- Panel sealed and fit a 0.63" (16.0mm) cut out
- Individually packaged and include: one actuator assembly, one basic switch, one sealing washer, and one hex nut per bag

- Body and button material: PBT
- Panel sealed to IP67
- All measurements in inches (mm).

SILVER - SPDT-DB

Mfg. Part No.	Color	Button Type	Stock No.	Price Each	
				1-9	
49-5911/530004	Black	Round	23C9025	25.19	
49-5912/530004	Red	Round	31C7623	20.72	
49-5921/530004	Black	Square	31C7627	21.98	
49-5922/530004	Red	Square	31C7629	31.81	
49-5923/530004	Green	Square	31C7631	24.90	

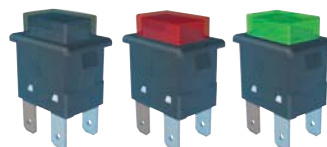
ENHANCED GOLD - DPDT-DB

49-5911/810	Black	Round	31C7622	37.98
49-5912/810	Red	Round	31C7624	45.09
49-5913/810	Green	Round	31C7626	37.14
49-5921/810	Black	Square	31C7628	36.98
49-5922/810	Red	Square	31C7630	46.30
49-5923/810	Green	Square	31C7632	46.30

(68322)

PUSHBUTTON SWITCHES - MC3310 SERIES

RoHS Compliant Available

SPC multicom

- DPST
- Snap-In panel mounting
- 3mm contact gap
- 8mm Isolation spacing

- 4.8 x 0.8 push-on quick connect terminals
- (On) = Momentary action
- VDE and ENEC Approvals, UL Recognized

NON-ILLUMINATED

Mfg. Part No.	Actuator Color	Action	Stock No.	Price Each	
				1-99	
MC3310-031-01	Black	(On)	74M3093	1.50	
MC3310-011-01	Black	Latching	74M3092	1.58	

ILLUMINATED

MC3310-051-02	Red	Latching	74M3094	1.80
MC3310-051-05	Green	Latching	74M3095	1.97

(115570)

SWITCHES – PUSHBUTTON 16MM

16mm STAINLESS STEEL
PUSHBUTTON SWITCHES

Fig. 1: Low Button



Fig. 2: Domed Button



Fig. 3: Prominent Button



Fig. 4: Low Button



Fig. 5: Prominent Button



Fig. 6: Dot Illuminated

Features:

- MP0042 and MP0044 available with flush, domed, or prominent button profile
- MP0045 available with flush, or prominent button profile
- Depth behind panel: 20.3 (MP0042 and MP0044); 36.5mm (MP0045)
- Available as non-illuminated or with dot or ring LED illumination

Specifications:

- LED operating voltage: 12VDC
- Mounting type: Front panel/single hole
- Switch material: Stainless steel

18mm OVERALL DIAMETER

Mfg. Part No.	Fig.	Circuitry	Function	Illumi- nation	Color	Stock No.	Price Each 1-9
● MP0042/1	1	SPST	Off-(On)	...	...	95M9939	4.72
● MP0044/1*	1	SPST	Off-(On)	...	...	95M9942	7.59
● MP0042/2	2	SPST	Off-(On)	...	...	95M9940	4.72
● MP0044/2*	2	SPST	Off-(On)	...	...	95M9943	7.59
● MP0042/3	3	SPST	Off-(On)	...	...	95M9941	4.72
● MP0044/3*	3	SPST	Off-(On)	...	...	95M9944	7.59

18mm OVERALL DIAMETER

● MP0045/1D0NN000	4	DPDT	Off-(On)	...	...	95M9945	11.14
● MP0045/1E0NN000	4	DPDT	On-Off	...	...	95M9954	11.64
● MP0045/3D0NN000	5	DPDT	Off-(On)	...	...	95M9964	11.14
● MP0045/3E0NN000	5	DPDT	On-Off	...	...	95M9965	11.64
● MP0045/1D1AM012	6	DPDT-2CO	Off-(On)	Dot	Amber	95M9946	13.36
● MP0045/1D1RD012	6	DPDT-2CO	Off-(On)	Dot	Red	95M9949	13.36
● MP0045/1D1GN012	6	DPDT-2CO	Off-(On)	Dot	Green	95M9948	13.36
● MP0045/1D1BL012	6	DPDT-2CO	Off-(On)	Dot	Blue	95M9947	13.36
● MP0045/1E1AM012	6	DPDT-2CO	On-Off	Dot	Amber	95M9955	14.07
● MP0045/1E1RD012	6	DPDT-2CO	On-Off	Dot	Red	95M9958	14.07
● MP0045/1E1GN012	6	DPDT-2CO	On-Off	Dot	Green	95M9957	14.07
● MP0045/1E1BL012	6	DPDT-2CO	On-Off	Dot	Blue	95M9956	14.07
● MP0045/1D2AM012	7	DPDT-2CO	Off-(On)	Ring	Amber	95M9950	13.36
● MP0045/1D2RD012	7	DPDT-2CO	Off-(On)	Ring	Red	95M9953	13.36
● MP0045/1D2GN012	7	DPDT-2CO	Off-(On)	Ring	Green	95M9952	13.36
● MP0045/1D2BL012	7	DPDT-2CO	Off-(On)	Ring	Blue	95M9951	13.36
● MP0045/1E2AM012	7	DPDT-2CO	On-Off	Ring	Amber	95M9959	14.07
● MP0045/1E2RD012	7	DPDT-2CO	On-Off	Ring	Red	95M9963	14.07
● MP0045/1E2GN012	7	DPDT-2CO	On-Off	Ring	Green	95M9962	14.07
● MP0045/1E2BL012	7	DPDT-2CO	On-Off	Ring	Blue	95M9961	14.07

* Gold plated Brass
(113854)

01 SERIES 16mm LIGHTED
PUSHBUTTON SWITCHES
AND INDICATORS

Rectangular Switch



Square Switch



Round Switch

➔ CONTINUED ➔

01 SERIES 16mm LIGHTED PUSHBUTTON SWITCHES AND INDICATORS

(CONT.)

Features:

- Front panel replaceable illumination and lens
- Minimum behind panel depth
- Extended lens w/ tapered bezel
- Available in up to a 4-pole form Z contact configuration
- Blue and white LEDs available; go online or call

Specifications:

- 250VAC/5A, 220VDC/0.1A, 24VDC/2A Snap-Action
- 42VAC/0.1A, 42VDC/0.1A Low Level
- Minimum Depth: 1.34"
- Use T-5.5 slide base single chip high intensity LED for illumination
- (On) = Momentary action; On = Maintained action

Use 4-Step Component Process to Assemble Complete Switch:

- STEP 1: Choose indicator or pushbutton
- STEP 2: Choose lens
- STEP 3: Choose optional LED illumination
- STEP 4: Choose optional accessories and tools

STEP 1: PUSHBUTTON SWITCHES

Mfg. Part No.	Circuit	Action	Bezel Style	Switch Element	Termination	Stock No.	Price Each 1-24
● 01-121.025	SPDT	(On)	Rectangular	Snap-Action	Solder	30B3642	16.02
● 01-122.025	DPDT	(On)	Rectangular	Snap-Action	Solder	30B3644	23.68
● 01-261.025	SPDT	On	Rectangular	Snap-Action	Solder	30B3671	18.82
● 01-262.025	DPDT	On	Rectangular	Snap-Action	Solder	30B3673	26.03
● 01-151.025	SPDT	(On)	Square	Snap-Action	Solder	30B3661	16.02
● 01-152.025	DPDT	(On)	Square	Snap-Action	Solder	30B3663	23.68
● 01-282.025	DPDT	On	Square	Snap-Action	Solder	27C2003	26.03
● 01-131.025	SPDT	(On)	Round	Snap-Action	Solder	30B3651	16.02
● 01-271.025	SPDT	On	Round	Snap-Action	Solder	88F3322	18.82
● 01-272.025	DPDT	On	Round	Snap-Action	Solder	99F8434	23.36

STEP 1: INDICATORS

Mfg. Part No.	Description	Termination	Stock No.	Price Each 1-24
● 01-040.005	Illuminated Indicator, Rectangular	Solder	30B3616	6.34
● 01-050.005	Illuminated Indicator, Square	Solder	30B3619	5.54
● 01-030.005	Illuminated Indicator, Round	Solder	88F3924	5.54

STEP 2: LENSES

Mfg. Part No.	Shape	Color	Stock No.	Price Each 1-24
● 01-901.2	Rectangular	Red	50B3010	1.92
● 01-901.4	Rectangular	Yellow	96B8821	1.68
● 01-901.5	Rectangular	Green	90B0028	1.68
● 01-901.6	Rectangular	Blue	50B3012	1.68
● 01-951.2	Square	Red	91B2351	1.68
● 01-951.4	Square	Yellow	91B2358	1.68
● 01-951.5	Square	Green	90B5364	1.68
● 01-951.6	Square	Blue	17C6557	1.51
● 01-931.2	Round	Red	66F9717	1.68
● 01-931.4	Round	Yellow	92B0719	1.68
● 01-931.5	Round	Green	91B0536	1.68
● 01-931.6	Round	Blue	31C1874	1.61

STEP 3: ILLUMINATION (OPTIONAL)

Mfg. Part No.	Forward Voltage	Color	Description	Stock No.	Price Each 1-24
● 10-1106.1369	...	...	Incandescent Bulb	40C1788	1.92
● 10-1109.1329	...	...	Incandescent Bulb	76K1087	2.11
● 10-1112.1279	...	...	Incandescent Bulb	76K1088	2.11
● 10-2106.3142	6 VDC	Red	Single Chip LED	79K3557	8.95
● 10-2106.3144	6 VDC	Yellow	Single Chip LED	79K3558	10.41
● 10-2106.3145	6 VDC	Green	Single Chip LED	79K3559	8.96
● 10-2109.1062	12 VAC/DC	Red	Single Chip LED	79K3562	9.02
● 10-2109.1064	12 VAC/DC	Yellow	Single Chip LED	79K3563	8.85
● 10-2112.1062	24 VAC/DC	Red	Single Chip LED	78K6783	9.30
● 10-2112.1064	24 VAC/DC	Yellow	Single Chip LED	76K1091	9.30
● 10-2112.1065	24 VAC/DC	Green	Single Chip LED	76K1092	9.30

STEP 4: ACCESSORIES AND TOOLS (OPTIONAL)

Mfg. Part No.	Description	Stock No.	Price Each 1-24
● 02-905	Lens Remover	50F8269	5.16
● 01-907	Mounting Tool	50F8271	4.72
● 02-906	Lamp Remover	50F8270	1.95
● 31-924.2	Rectangular Spray Cover	50F8272	5.31
● 01-927	Rectangular Protection Cover	50F8273	4.63
● 31-925	Switch Guard	50F8274	4.02
● 31-940	PCB Connector	66F9730	3.70

(5093)

SWITCHES – PUSHBUTTON 16MM

31 SERIES LIGHTED
PUSHBUTTON SWITCHES
AND INDICATORS

"Complete" Switch



Rectangular Switch



Lenses



Illumination

Features:

- Mount in 16mm round hole
- Uses a T-1 1/4 midget "groove" illumination in either incandescent, or LED style
- IP40 rated
- Solder or Q.C. terminals
- Front replaceable lens and illumination
- Blue and white LEDs available; *go online or call*

Specification:

- 5A at 250VAC (Snap-action)
- 0.1A at 42VAC/DC (Low level)
- Minimum Depth: 1.14"

Use 4-Step Component Process to Assemble Complete Switch:

- STEP 1: Choose pushbutton or indicator
- STEP 2: Choose lens
- STEP 3: Choose optional illumination
- STEP 4: Choose optional accessories and tools

STEP 1: PUSHBUTTON SWITCHES

SNAP-ACTION

Mfg. Part No.	Circuitry	Function	Bezel Style	Termination	Stock No.	Price Each
						1-24
● 31-121.022	SPDT	(On)	Rectangular	0.110" QC/Solder	92F5783	19.01
● 31-121.025	SPDT	(On)	Rectangular	Solder	50F8257	19.01
● 31-122.025	DPDT	(On)	Rectangular	Solder	50F8258	27.42
● 31-261.022	SPDT	On	Rectangular	0.110" QC/Solder	92F5782	22.37
● 31-261.025	SPDT	On	Rectangular	Solder	50F8259	22.37
● 31-262.025	DPDT	On	Rectangular	Solder	50F8260	30.50
● 31-151.022	SPDT	(On)	Square	0.110" QC/Solder	92B8191	19.01
● 31-151.025	SPDT	(On)	Square	Solder	52F1835	19.01
● 31-152.025	DPDT	(On)	Square	Solder	30B4130	27.42
● 31-281.022	SPDT	On	Square	0.110" QC/Solder	30B4158	22.37
● 31-281.025	SPDT	On	Square	Solder	30B4159	22.37
● 31-282.025	DPDT	On-On	Square	Solder	30B4160	30.50
● 31-131.022	SPDT	(On)	Round	0.110" QC/Solder	92B8819	19.01
● 31-131.025	SPDT	(On)	Round	Solder	88F4824	19.01
● 31-132.025	DPDT	(On)	Round	Solder	30B4122	27.26
● 31-271.022	SPDT	On	Round	0.110" QC/Solder	30B4148	21.43
● 31-271.025	SPDT	On	Round	Solder	30B4149	21.56
● 31-272.025	DPDT	On	Round	Solder	30B4151	30.50

LOW-LEVEL

● 31-421.036	DPST-2NO	(On)	Rectangular	0.79x0.020" QC/Solder	98F8313	19.01
● 31-451.036	DPST-2NO	(On)	Square	0.79x0.020" QC/Solder	30B4171	19.01
● 31-433.036	DPST-1NO/1NC	(On)	Round	0.79x0.020" QC/Solder	66F9680	17.38

STEP 1: INDICATORS

Mfg. Part No.	Description	Termination	Stock No.	Price Each
				1-24
● 31-040.005	Illuminated Indicator, Rectangular	Solder	50F8263	6.26
● 31-050.005	Illuminated Indicator, Square	Solder	88F2612	5.95
● 31-030.005	Illuminated Indicator, Round	Solder	30B4105	6.26

STEP 2: LENSES (TRANSLUCENT)

Mfg. Part No.	Shape	Color	Stock No.	Price Each
				1-24
● 31-901.2	Rectangular	Red	50B9690	1.86
● 31-901.4	Rectangular	Yellow	16C7429	1.86
● 31-901.5	Rectangular	Green	90B0024	1.86
● 31-901.6	Rectangular	Blue	90B8745	1.86
● 31-951.2	Square	Red	91B9741	1.86
● 31-951.4	Square	Yellow	91B9614	1.86
● 31-951.5	Square	Green	66F9726	1.86
● 31-951.6	Square	Blue	50B3049	1.84
● 31-931.2	Round	Red	66F9696	1.86
● 31-931.4	Round	Yellow	12C0340	1.81

➔ CONTINUED ➔

31 SERIES LIGHTED PUSHBUTTON SWITCHES AND INDICATORS (CONT.)

Mfg. Part No.	Shape	Color	Stock No.	Price Each
				1-24
● 31-931.5	Round	Green	31C1875	1.86
● 31-931.6	Round	Blue	17C1555	1.86

STEP 3: ILLUMINATION (OPTIONAL)

INCANDESCENT BULBS

Mfg. Part No.	Voltage (V)	Stock No.	Price Each
			1-24
● 10-1307.1369	6.3	10C2740	2.00
● 10-1310.1319	14	01M9804	2.00
● 10-1313.1249	28	76K1089	1.90

SINGLE CHIP LEDs

Mfg. Part No.	Forward Voltage	Color	Stock No.	Price Each
				1-24
● 10-2J06.3142	6VDC	Red	82K8958	9.02
● 10-2J06.3144	6VDC	Yellow	82K8959	10.41
● 10-2J06.3145	6VDC	Green	82K8960	9.02
● 10-2J09.1062	12VAC/DC	Red	82K8963	9.30
● 10-2J09.1064	12VAC/DC	Yellow	82K8964	9.30
● 10-2J09.1065	12VAC/DC	Green	82K8965	8.83
● 10-2312.1062	24VDC	Red	76K1093	11.04
● 10-2312.1064	24VDC	Yellow	76K1094	11.04
● 10-2312.1065	24VDC	Green	76K1095	10.49
● 10-2J13.1062	28VAC/DC	Red	80K6966	9.30
● 10-2J13.1064	28VAC/DC	Yellow	27M9673	9.30
● 10-2J13.1065	28VAC/DC	Green	82K8969	9.02

STEP 4: ACCESSORIES AND TOOLS (OPTIONAL)

Mfg. Part No.	Description	Stock No.	Price Each
			1-24
● 02-905	Lens Remover	50F8269	5.16
● 01-907	Mounting Tool	50F8271	4.72
● 02-906	Lamp Remover	50F8270	1.95
● 61-9740.0	LED Remover	29H3481	1.85
● 31-924.2	Rectangular Spray Cover	50F8272	5.31
● 01-927	Rectangular Protection Cover	50F8273	4.63
● 31-925	Switch Guard	50F8274	4.02
● 31-940	PCB Connector	66F9730	3.70

(5094)

SERIES 51 16mm LIGHTED
PUSHBUTTON SWITCHES

Complete Pushbutton



Step 1: Choose Actuator or Indicator



Step 2: Lenses



Step 3: Illumination

Features:

- Switches and indicators available in round, square, or rectangular shape
- Mounts in panels of approximately 1/4" thick (max of 0.255")
- Illuminated by a T-1 1/4" midget groove incandescent bulb or high intensity "daylight readable" LED
- Illuminated selector switches offered within this series
- Blue and white LEDs available; *go online or call*

Specifications:

- Oil and watertight to IP65 standards
- Snap action switch ratings: 5A at 250VAC, 2A at 24VDC, 0.1A at 220VDC
- Mounting in a 16mm diameter cut-out
- Low level contact rating: 100mA at 42VAC/DC
- QC, solder, or PCB terminals available
- On = Maintained; (On) = Momentary

Use 4-Step Component Process to Assemble Complete Switch:

- STEP 1: Choose pushbutton or indicator
- STEP 2: Choose lens
- STEP 3: Choose illumination (optional)
- STEP 4: Choose accessories and tools (optional)

STEP 1: SNAP ACTION PUSHBUTTONS

Mfg. Part No.	Circuitry	Function	Shape	Termination	Stock No.	Price Each
						1-24
● 51-261.025	SPDT-1NO/1NC	On	Rectangular	Solder Lug	66F9701	20.68
● 51-261.022	SPDT-1NO/1NC	On	Rectangular	0.110" QC/Solder	30B4419	20.68
● 51-281.025	SPDT-1NO/1NC	On	Square	Solder Lug	30B4439	19.07

➔ CONTINUED ➔

SWITCHES – PUSHBUTTON 16MM

SERIES 51 16mm LIGHTED PUSHBUTTON SWITCHES (CONT.)

Mfg. Part No.	Circuitry	Function	Shape	Termination	Stock No.	Price Each
						1-24
51-281.022	SPDT-1NO/1NC	On	Square	0.110" QC/Solder	30B4438	19.64
51-271.025	SPDT-1NO/1NC	On	Round	Solder Lug	30B4428	20.40
51-271.022	SPDT-1NO/1NC	On	Round	0.110" QC/Solder	30B4427	19.36
51-121.025	SPDT-1NO/1NC	(On)	Rectangular	Solder Lug	66F9706	18.01
51-121.022	SPDT-1NO/1NC	(On)	Rectangular	0.110" QC/Solder	90B0160	18.01
51-151.025	SPDT-1NO/1NC	(On)	Square	Solder Lug	88F2245	17.48
51-151.022	SPDT-1NO/1NC	(On)	Square	0.110" QC/Solder	30B4343	17.66
51-131.025	SPDT-1NO/1NC	(On)	Round	Solder Lug	30B4280	18.01
51-131.022	SPDT-1NO/1NC	(On)	Round	0.110" QC/Solder	30B4279	16.97
51-282.025	DPDT-2NO/2NC	On	Rectangular	Solder Lug	66F9702	27.11
51-282.025	DPDT-2NO/2NC	On	Square	Solder Lug	30B4441	26.16
51-272.025	DPDT-2NO/2NC	On	Round	Solder Lug	30B4430	26.68
51-122.025	DPDT-2NO/2NC	(On)	Rectangular	Solder Lug	66F9690	24.91
51-152.025	DPDT-2NO/2NC	(On)	Square	Solder Lug	27C8764	24.71
51-132.025	DPDT-2NO/2NC	(On)	Round	Solder Lug	30B4282	24.91

STEP 1: LOW LEVEL PUSHBUTTONS

51-465.036	SPST-NO	On	Rectangular	.79x.02"QC/Solder	30B4596	16.20
51-485.036	SPST-NO	On	Square	.79x.02"QC/Solder	30B4606	15.27
51-475.036	SPST-NO	On	Round	.79x.02"QC/Solder	30B4601	15.24
51-425.036	SPST-NO	(On)	Rectangular	.79x.02"QC/Solder	66F9705	14.09
51-455.036	SPST-NO	(On)	Square	.79x.02"QC/Solder	30B4587	13.68
51-435.036	SPST-NO	(On)	Round	.79x.02"QC/Solder	30B4566	14.09
51-466.036	SPST-NC	On	Rectangular	.79x.02"QC/Solder	30B4597	15.27
51-486.036	SPST-NC	On	Square	.79x.02"QC/Solder	30B4607	16.69
51-476.036	SPST-NC	On	Round	.79x.02"QC/Solder	30B4602	16.20
51-426.036	SPST-NC	(On)	Rectangular	.79x.02"QC/Solder	30B4558	13.68
51-456.036	SPST-NC	(On)	Square	.79x.02"QC/Solder	30B4588	12.85
51-436.036	SPST-NC	(On)	Round	.79x.02"QC/Solder	30B4567	12.90
51-463.036	DPST-1NO/1NC	On	Rectangular	.79x.02"QC/Solder	30B4595	20.68
51-483.036	DPST-1NO/1NC	On	Square	.79x.02"QC/Solder	30B4605	18.93
51-473.036	DPST-1NO/1NC	On	Round	.79x.02"QC/Solder	30B4600	20.68
51-423.036	DPST-1NO/1NC	(On)	Rectangular	.79x.02"QC/Solder	30B4557	18.01
51-453.036	DPST-1NO/1NC	(On)	Square	.79x.02"QC/Solder	30B4586	18.01
51-433.036	DPST-1NO/1NC	(On)	Round	.79x.02"QC/Solder	30B4565	16.47

STEP 1: INDICATORS

Mfg. Part No.	Shape	Termination	Stock No.	Price Each
				1-24
51-040.002	Rectangular	0.110" QC/Solder	91B7087	6.00
51-040.005	Rectangular	Solder	30B4245	6.02
51-050.002	Square	0.110" QC/Solder	30B4248	6.02
51-050.005	Square	Solder	30B4249	6.02
51-030.002	Round	0.110" QC/Solder	99F4070	5.84
51-030.005	Round	Solder	30B4242	6.02

STEP 2: LENSES

Mfg. Part No.	Shape	Color	Stock No.	Price Each
				1-24
51-903.2	Rectangular	Red	66F9713	1.96
51-903.3	Rectangular	Orange	50B3065	1.85
51-903.4	Rectangular	Yellow	66F9714	1.96
51-903.5	Rectangular	Green	66F9715	1.96
51-903.6	Rectangular	Blue	66F9716	1.96
51-903.7	Rectangular	White	66F9699	1.96
51-953.2	Square	Red	27C1247	1.96
51-953.3	Square	Orange	34C5762	1.96
51-953.4	Square	Yellow	93B9386	1.94
51-953.5	Square	Green	91B1809	1.96
51-953.6	Square	Blue	67H3196	1.79
51-953.7	Square	Clear	90B0077	1.96
51-933.2	Round	Red	90B7646	1.96
51-933.3	Round	Orange	02J7089	1.96
51-933.4	Round	Yellow	01C6557	1.96
51-933.5	Round	Green	94B4468	1.96
51-933.6	Round	Blue	86H7347	1.96
51-933.7	Round	Clear	01C8113	1.89

STEP 3: ILLUMINATION INCANDESCENT BULB

Mfg. Part No.	Forward Voltage	Color	Stock No.	Price Each
				1-24
10-1307.1369	6.3V	...	10C2740	2.00

SINGLE CHIP LED

10-2J06.3142	6VDC	Red	82K8958	9.02
10-2J06.3144	6VDC	Yellow	82K8959	10.41
10-2J06.3145	6VDC	Green	82K8960	9.02
10-2J09.1062	12VAC/DC	Red	82K8963	9.30
10-2J09.1064	12VAC/DC	Yellow	82K8964	9.30

➔ CONTINUED ➔

SERIES 51 16mm LIGHTED PUSHBUTTON SWITCHES (CONT.)

SINGLE CHIP LED

Mfg. Part No.	Forward Voltage	Color	Stock No.	Price Each
				1-24
10-2J09.1065	12VAC/DC	Green	82K8965	8.83
10-2312.1062	24VAC/DC	Red	76K1093	11.04
10-2312.1064	24VAC/DC	Yellow	76K1094	11.04
10-2312.1065	24VAC/DC	Green	76K1095	10.49
10-2J13.1062	28VAC/DC	Red	80K6966	9.30
10-2J13.1065	28VAC/DC	Green	82K8969	9.02

STEP 4: ACCESSORIES AND TOOLS

Mfg. Part No.	Description	Stock No.	Price Each
			1-24
01-907	Mounting Wrench	50F8271	4.72
31-946	Female Tab, 0.110"x0.020"	30B4196	0.37
31-929	Insulator Sleeve, 0.110"x0.020"	30B4193	0.37
02-905	Lens Remover	50F8269	5.16
61-9740.0	Lamp/LED Remover	29H3481	1.85

(47174)

61 SERIES 16mm LIGHTED PUSHBUTTON SWITCHES



Just Added



Standard + Flush Mount Complete Switch



Illumination



Tools

Specifications:

- Max rating: 5A at 250VAC
- Raised mounting into 16mm cut out
- Flush mounting into 22.5mm, 21x21mm and 21x27mm cut out
- Illumination using midjet-grooved T-1 ¾ lamps or single chip LEDs
- Sealed to IP65 standards
- On = Maintained; (On) = Momentary

Features:

- High quality modular switch range
- Standard and flush mount styles available
- Illuminated selector/rotary switches available
- Keylock with 135 different key codes exists
- Blue and white LEDs available; *go online or call*

Use 4-Step Component Process to Assemble Complete Switch:

- STEP 1A: Choose standard or flush mount actuator or indicator
- STEP 1B: Choose flush mount adapter (for flush mount actuator only)
- STEP 2: Choose lens
- STEP 3: Choose contact block separately on page 1746
- STEP 4: Choose illumination (optional)
- STEP 5: Choose accessories and tools (optional)

STEP 1A: STANDARD MOUNT PUSHBUTTON ACTUATORS

Mfg. Part No.	Function	Shape	Dim.	Stock No.	Price Each
					1-24
61-1130.0	(On)	Rectangular	18x24mm	30B4693	9.35
61-1230.0	On	Rectangular	18x24mm	30B4701	11.30
61-1120.0	(On)	Square	18x18mm	30B4692	9.17
61-1220.0	On	Square	18x18mm	30B4700	11.30
61-1110.0	(On)	Round	18mm	30B4691	9.35
61-1210.0	On	Round	18mm	30B4699	11.30

STEP 1A: STANDARD MOUNT INDICATORS

61-0030.02	...	Rectangular	18x24mm	14C3963	6.78
61-0020.02	...	Square	18x18mm	35C4323	6.78
61-0010.02	...	Round	18mm	35C3418	6.78

STEP 1A: FLUSH MOUNT ACTUATORS

Mfg. Part No.	Function	Description	Stock No.	Price Each
				1-24
61-1100.0	(On)	Universal Actuator	97B2939	9.35
61-1200.0	On	Universal Actuator	96B1613	13.39
61-0000.02	...	Universal Indicator	19C9561	6.78

STEP 1B: FLUSH MOUNT ADAPTERS

Mfg. Part No.	Shape	Color	Material	Stock No.	Price Each	
					1-24	25-249
61-9930.0	Square	Black	Plastic	48F3716	3.75	3.27
61-9933.0	Round	Natural	Anodized Aluminum	10C2530	8.57	7.57
61-9933.1	Round	Black	Anodized Aluminum	97B2952	8.68	7.67
61-9933.10	Round	Black	Plastic	48F3717	3.49	3.08

➔ CONTINUED ➔

SWITCHES – PUSHBUTTON 16MM

61 SERIES 16mm LIGHTED PUSHBUTTON SWITCHES (CONT.)

STEP 2: LENSES STANDARD MOUNT

Mfg. Part No.	Shape	Color	Stock No.	Price Each	
				1-24	25-249
● 61-9331.2	Rectangular	Red	29C2988	1.89	1.67
● 61-9331.3	Rectangular	Orange	02J7267	1.88	1.66
● 61-9331.4	Rectangular	Yellow	01C2396	1.89	1.67
● 61-9331.5	Rectangular	Green	23C8001	1.89	1.67
● 61-9331.6	Rectangular	Blue	23C8003	1.89	1.67
● 61-9331.7	Rectangular	White	23C8005	1.89	1.67
● 61-9321.2	Square	Red	09C9732	1.79	1.58
● 61-9321.3	Square	Orange	37C4913	1.79	1.58
● 61-9321.4	Square	Yellow	29C5643	1.79	1.58
● 61-9321.5	Square	Green	02C6555	1.85	1.63
● 61-9321.6	Square	Blue	02J7259	1.89	1.67
● 61-9321.7			29C8127	1.89	1.67
● 61-9311.2	Round	Red	70C5119	1.89	1.67
● 61-9311.3	Round	Orange	70C5291	1.79	1.58
● 61-9311.4	Round	Yellow	01H9038	1.89	1.67
● 61-9311.5	Round	Green	70C5286	1.79	1.58
● 61-9311.6	Round	Blue	70C5208	1.89	1.67
● 61-9311.7	Round	White	02J7257	1.79	1.58

STEP 2: LENSES FLUSH MOUNT

● 61-9681.2	Rectangular	Red	95B8272	2.08	1.83
● 61-9681.3	Rectangular	Orange	02J7277	2.12	1.87
● 61-9681.4	Rectangular	Yellow	48F3718	2.37	2.07
● 61-9681.5	Rectangular	Green	95B8273	2.42	2.11
● 61-9681.6	Rectangular	Blue	97H5999	2.08	1.83
● 61-9681.7	Rectangular	White	13C3191	2.12	1.87
● 61-9671.2	Square	Red	48F3719	2.42	2.11
● 61-9671.3	Square	Orange	35C0221	2.12	1.87
● 61-9671.4	Square	Yellow	95B8269	2.00	1.76
● 61-9671.5	Square	Green	48F3720	2.32	2.02
● 61-9671.6	Square	Blue	95B8270	2.12	1.87
● 61-9671.7	Square	White	95B8271	2.10	1.86
● 61-9642.2	Round	Red	48F3721	4.23	3.74
● 61-9642.3	Round	Orange	71C7561	4.06	3.59
● 61-9642.4	Round	Yellow	97B2958	3.87	3.42
● 61-9642.5	Round	Green	14C7519	4.23	3.74
● 61-9642.6	Round	Blue	10C2527	3.98	3.52
● 61-9642.7	Round	White	03H8418	4.12	3.64

STEP 4: ILLUMINATION

Mfg Part No.	Forward Voltage	Description	Stock No.	Price Each	
				1-24	
● 10-2J06.3142	6VDC	Red	82K8958	9.02	
● 10-2J06.3144	6VDC	Yellow	82K8959	10.41	
● 10-2J06.3145	6VDC	Green	82K8960	9.02	
● 10-1307.1369	6.3VDC	Lamp	10C2740	2.00	
● 10-2J09.1062	12VAC/DC	Red	82K8963	9.30	
● 10-2J09.1064	12VAC/DC	Yellow	82K8964	9.30	
● 10-2J09.1065	12VAC/DC	Green	82K8965	8.83	
● 10-1310.1319	14VDC	Lamp	01M9804	2.00	
● 10-2312.1062	24VAC/DC	Red	76K1093	11.04	
● 10-2312.1064	24VAC/DC	Yellow	76K1094	11.04	
● 10-2312.1065	24VAC/DC	Green	76K1095	10.49	
● 10-1313.1249	28VDC	Lamp	76K1089	1.90	
● 10-2J13.1062	28VAC/DC	Red	80K6966	9.30	
● 10-2J13.1064	28VAC/DC	Yellow	27M9673	9.30	
● 10-2J13.1065	28VAC/DC	Green	82K8969	9.02	
● 10-2J13.1066	28VAC/DC	Blue	82K8970	10.85	

STEP 5: ACCESSORIES AND TOOLS

Mfg. Part No.	Description	Stock No.	Price Each	
			1-24	25-249
● 61-9711.0	Contact Block Remover	30B4862	6.90	6.10
● 61-9740.0	LED/Lamp Remover	29H3481	1.85	1.65
● 02-905	Standard Lens Remover	50F8269	5.16	4.49
● 31-946	Female Tab, 0.110"x0.020"	30B4196	0.37	0.33
● 31-929	Insulator Sleeve, 0.110"x0.020"	30B4193	0.37	0.33
● 01-907	Mounting Wrench	50F8271	4.72	4.10
● 61-9730.0	Flush Lens Remover	97F7715	3.26	3.06

KITS

Mfg. Part No.	Circuitry	Action	Shape	Stock No.	Price Each	
					1-24	25-249
● 61-132-0021X	SPST-NO	Convertible	Square	84F1506	22.29	19.69
● 61-133-0022X	DPST-2NO	Convertible	Rectangular	84F1505	24.74	21.86

(5021)

16mm
PUSHBUTTON
SWITCHES

- IP65 sealed
- 5A contacts
- DPDT snap-acting contacts
- Mechanical life >2 million operations, depending on load
- Operating temperature: -30° to +55°C
- On = Maintained; (On) = Momentary

0.638" (16.2) mounting hole, 0.110" quick-connect/solder terminals.
Removable contacts with locking lever, back panel depth 1.75". UL recognized, CSA certified, CE.



ILLUMINATED 24VAC/DC

Mfg. Part No.	Shape	Color	Action	Stock No.	Price Each		
					1-24	25-49	50-99
● LA1L-M1C64-A	Round	Amber	Off-(On)	74K3839	20.10	17.97	16.37
● LA1L-M1C64-G	Round	Green	Off-(On)	19P2734	20.10	17.97	16.37
● LA1L-M1C64-R	Round	Red	Off-(On)	19P2735	20.10	17.97	16.37
● LA1L-A1C64-A	Round	Amber	On-Off	74K3836	22.60	20.20	18.40
● LA1L-A1C64-R	Round	Red	On-Off	15C7807	22.60	20.20	18.40
● LA2L-M1C64-A	Square	Amber	Off-(On)	74K3854	20.10	17.97	16.37
● LA2L-M1C64-G	Square	Green	Off-(On)	78K8320	20.10	17.97	16.37
● LA2L-M1C64-R	Square	Red	Off-(On)	74K3855	20.10	17.97	16.37
● LA2L-A1C64-A	Square	Amber	On-Off	74K3850	22.60	20.20	18.40
● LA2L-A1C64-G	Square	Green	On-Off	15C8728	22.60	20.20	18.40
● LA2L-A1C64-R	Square	Red	On-Off	19P2736	22.60	20.20	18.40
● LA3L-M1C64-A	Rect.	Amber	Off-(On)	19P2738	20.10	17.97	16.37
● LA3L-M1C64-G	Rect.	Green	Off-(On)	19P2739	20.10	17.97	16.37
● LA3L-M1C64-R	Rect.	Red	Off-(On)	74K3865	20.10	17.97	16.37
● LA3L-A1C64-A	Rect.	Amber	On-Off	74K3860	22.60	20.20	18.40
● LA3L-A1C64-G	Rect.	Green	On-Off	74K3861	22.60	20.20	18.40
● LA3L-A1C64-R	Rect.	Red	On-Off	74K3862	22.60	20.20	18.40

NON-ILLUMINATED

● LA1B-M1C6L-A*	Round	Amber	Off-(On)	74K3833	14.33	12.81	11.67
● LA1B-M1C6-G	Round	Green	Off-(On)	74K3831	14.33	12.81	11.67
● LA1B-M1C6-R	Round	Red	Off-(On)	19P2731	14.33	12.81	11.67
● LA1B-A1C6-G	Round	Green	On-Off	74K3828	16.83	15.04	13.70
● LA1B-M1C6-B	Round	Black	Off-(On)	74K3830	14.33	12.81	11.67
● LA1B-A1C6-R	Round	Red	On-Off	74K3829	16.83	15.04	13.70
● LA2B-M1C6-Y	Square	Yellow	Off-(On)	74K3849	14.33	12.81	11.67
● LA2B-M1C6-G	Square	Green	Off-(On)	74K3847	14.33	12.81	11.67
● LA2B-M1C6-R	Square	Red	Off-(On)	74K3848	14.33	12.81	11.67
● LA3B-M1C6-G	Rect.	Green	Off-(On)	74K3856	14.33	12.81	11.67
● LA3B-M1C6-R	Rect.	Red	Off-(On)	74K3857	14.33	12.81	11.67

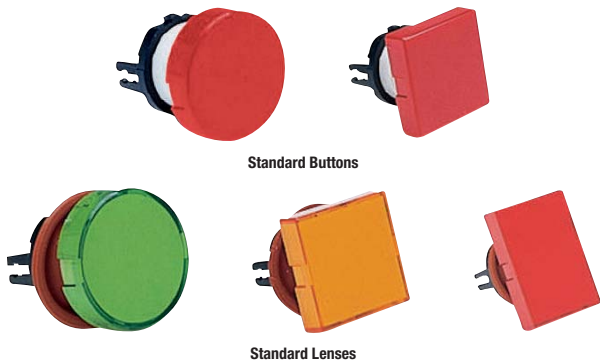
*Translucent lens (52070)

16mm SWITCH
SUBASSEMBLY
COMPONENTS

➤ CONTINUED ➤

SWITCHES – PUSHBUTTON 16MM

16mm SWITCH SUBASSEMBLY COMPONENTS (CONT.)



OPERATOR BASES

All are DPDT, momentary action except (*) SPDT. Units with maintained action also available; go online or call.

Mfg. Part No.	Shape	Illumination	Stock No.	Price Each		
				1-24	25-49	50-99
● AB6M-M200	Round	Non-Illuminated	74K3621	10.06	9.02	8.55
AB6M-M1-G	Round	Non-Illuminated	30B5587	10.02	8.98	8.51
AB6M-M2P-B	Round	Non-Illuminated	30B5622	13.86	12.43	11.78
● AL6M-M200	Round	Illuminated	74K3659	8.66	7.76	7.36
● AL6M-P00	Round	Pilot Light	74K3660	2.22	1.99	1.89
● AB6H-M100*	Rectangular	Non-Illuminated	30B5506	8.11	7.33	6.91
● AB6H-M200	Rectangular	Non-Illuminated	74K3617	10.06	9.02	8.55
● AL6H-M100*	Rectangular	Illuminated	74K3650	6.30	5.65	5.36
● AL6H-M200	Rectangular	Illuminated	74K3651	8.66	7.76	7.36
● AL6H-P00	Rectangular	Pilot Light	74K3652	2.22	1.99	1.89
● AB6Q-M200	Square	Non-Illuminated	74K3625	10.06	9.02	8.55
● AL6Q-M200	Square	Illuminated	74K3664	8.65	7.76	7.35
● AL6Q-P00	Square	Pilot Light	86K0512	2.39	2.16	2.03
AL6Q-M14-G	Square	Illuminated	96B2925	14.40	12.92	12.24
AL6Q-M14P-S	Square	Illuminated	15C0777	15.37	13.78	13.06
AL6Q-M14-R	Square	Illuminated	96B8877	14.40	12.92	12.24
AB6M-V1P-R	Mushroom Head	Non-Illuminated	30B5634	19.89	17.83	16.90

BUTTONS

Waterproof, oiltight and corrosion-resistant to IP65.

Mfg. Part No.	Shape	Color	Size	Stock No.	Price Each		
					1-24	25-49	50-99
● AB6M-BK2-B	Round	Black	Standard Size	74K3618	3.12	2.80	2.65
● AB6M-BK2-G	Round	Green	Standard Size	74K3619	3.12	2.80	2.65
● AB6M-BK2-R	Round	Red	Standard Size	74K3620	3.12	2.80	2.65
● AB6Q-BK2-B	Square	Black	Standard Size	96F4037	3.11	2.79	2.65
● AB6Q-BK2-G	Square	Green	Standard Size	74K3623	3.11	2.79	2.65
● AB6Q-BK2-R	Square	Red	Standard Size	74K3624	3.11	2.79	2.65
● AB6H-BK2-B	Rectangular	Black	Standard Size	74K3615	3.11	2.79	2.65
● AB6H-BK2-G	Rectangular	Green	Standard Size	74K3616	3.11	2.79	2.65
● AB6H-BK2-R	Rectangular	Red	Standard Size	96F4042	3.11	2.79	2.65

LENSES

LK1 = Dustproof to IP40. LK2 = Oiltight to IP65.

Mfg. Part No.	Shape	Color	Size	Stock No.	Price Each		
					1-24	25-49	50-99
● AL6M-LK2-A	Round	Amber	Standard Size	74K3653	3.12	2.80	2.65
● AL6M-LK2-G	Round	Green	Standard Size	74K3654	3.12	2.80	2.65
● AL6M-LK2-R	Round	Red	Standard Size	74K3655	3.12	2.80	2.65
● AL6Q-LK2-A	Square	Amber	Standard Size	74K3661	3.10	2.78	2.64
● AL6Q-LK2-G	Square	Green	Standard Size	74K3662	3.11	2.79	2.65
● AL6Q-LK2-R	Square	Red	Standard Size	74K3663	3.11	2.79	2.65
AL6Q-LK1-W	Square	White	Standard Size	83C8849	2.08	1.87	1.77
● AL6H-LK1-A	Rectangular	Amber	Standard Size	23C2033	2.08	1.87	1.77
● AL6H-LK1-W	Rectangular	White	Standard Size	23C1653	2.08	1.87	1.77
● AL6H-LK2-A	Rectangular	Amber	Standard Size	74K3645	3.09	2.77	2.63
● AL6H-LK2-G	Rectangular	Green	Standard Size	74K3646	3.09	2.77	2.63
● AL6H-LK2-R	Rectangular	Red	Standard Size	74K3647	3.09	2.77	2.63
● AL6H-LK2-W	Rectangular	White	Standard Size	74K3648	3.09	2.77	2.63
● AL6H-LK2-Y	Rectangular	Yellow	Standard Size	83C8808	3.09	2.77	2.63
● AL6M-LK3-A	Round	Amber	Standard Pilot Light	74K3656	3.10	2.78	2.64
● AL6M-LK3-G	Round	Green	Standard Pilot Light	74K3657	3.11	2.79	2.64
● AL6M-LK3-R	Round	Red	Standard Pilot Light	74K3658	3.11	2.79	2.65
● AL6H-LK3-G	Rectangular	Green	Standard Pilot Light	74K3649	3.11	2.79	2.64
● AL6H-LK3-R	Rectangular	Red	Standard Pilot Light	96F4078	3.11	2.79	2.65

LED LAMPS

Mfg. Part No.	Voltage (VAC/DC)	Current (mA)	Color	Stock No.	Price Each		
					1-24	25-49	50-99
● LATD-6A	6	30	Amber	74K3825	5.54	4.97	4.71
● LATD-6G	6	30	Green	74K3826	4.54	4.08	3.86

➔ CONTINUED ➔

16mm SWITCH SUBASSEMBLY COMPONENTS (CONT.)

Mfg. Part No.	Voltage (VAC/DC)	Current (mA)	Color	Stock No.	Price Each		
					1-24	25-49	50-99
● LATD-6R	6	30	Red	74K3827	5.54	4.97	4.71
LATD-6JW	6	30	White	05N0144	3.50	3.14	2.97
● LATD-1A	12	20	Amber	74K3819	5.54	4.97	4.71
● LATD-1G	12	20	Green	74K3820	5.54	4.97	4.71
● LATD-1R	12	20	Red	74K3821	5.54	4.97	4.71
● LATD-2A	24	10	Amber	74K3822	5.54	4.97	4.71
● LATD-2G	24	10	Green	74K3823	5.54	4.97	4.71
● LATD-2R	24	10	Red	74K3824	5.54	4.97	4.71
● LATD-2W	24	10	White	45C7097	5.96	5.39	5.07
LATD-2JW	24	10	White	05N0143	5.54	4.97	4.71

(3412)

FLUSH BEZELS FOR 16MM SWITCHES



FLUSH BEZELS FOR 16MM SWITCHES

Mfg. Part No.	Shape	Material	Color	Stock No.	Price Each	
					1-24	25-49
● LA9Z-SM61	Round	Metal	Aluminum	34M2045	11.72	10.51
● LA9Z-S61B	Round	Plastic	Black	34M2046	5.47	4.91
● LA9Z-S71B	Square	Plastic	Black	34M2047	5.47	4.91
● LA9Z-S81B	Rectangular	Plastic	Black	96K4413	5.47	4.91

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each	
			1-24	25-49
● LA9Z-BS6	Round mounting hole plug, plastic	34M2042	5.47	4.91
● LA9Z-BS7	Square mounting hole plug, plastic	34M2043	5.47	4.91
● LA9Z-BS8	Rectangular mounting hole plug, plastic	34M2044	5.47	4.91
● LA9Z-KS8	Switch guard w/ rectangular flush bezel, plastic	96K4415	9.38	8.41

(90570)

C&K LUMOTAST 75 SERIES 16mm LIGHTED PUSHBUTTON SWITCHES AND INDICATORS



7



- 4A @ 12-250VAC or 0.2A @ 12-220VDC
- Electrical Life: 60,000 - 2,000,000 Operations, Depending on Load
- Operating Temperature: -25°C to +55°C

High quality, long-life SPDT and DPDT momentary and maintained pushbutton switches and indicators. Threaded mounting ring included, fits standard 0.638" (16.2) mounting hole dia. Three bezel styles, color: black. T-4 1/2 incandescent lamp. Housing: thermosetting plastic, with solder terminals. Complete assembly length: 2.24" (57). UL listed, CSA certified and VDE approved. Product rated to IP40. IP65 versions also available. Additional lens colors and LED lamps available. For complete assembly, order switch or indicator, lens, diffuser and lamp.

75 SERIES SWITCHES

Mfg. Part No.	Style	Circuitry	Action	Stock No.	Price Each		
					1-24	25-49	100-249
● 1.15108.451	Round	SPDT	(On)	34M9494	28.54	27.35	21.15
● 1.15108.452	Round	DPDT	(On)	39M2289	41.75	40.02	30.93
● 1.15108.251	Square	SPDT	(On)	34M9490	28.54	27.35	21.15
● 1.15108.252	Square	DPDT	(On)	34M9491	41.75	40.02	30.93
● 1.15108.051	Rectangular	SPDT	(On)	34M9486	28.54	27.35	21.15
● 1.15108.052	Rectangular	DPDT	(On)	34M9487	41.75	40.02	30.93

➔ CONTINUED ➔

SWITCHES – PUSHBUTTON 16MM

C&K LUMOTAST 75 SERIES 16mm LIGHTED PUSHBUTTON SWITCHES AND INDICATORS (CONT.)

Mfg. Part No.	Style	Circuitry	Action	Stock No.	Price Each		
					1-24	25-99	100-249
● 1.15108.551	Round	SPDT	Latching	34M9495	33.89	32.48	25.11
● 1.15108.552	Round	DPDT	Latching	34M9496	47.36	45.40	35.09
● 1.15108.351	Square	SPDT	Latching	34M9492	33.29	31.91	24.67
● 1.15108.352	Square	DPDT	Latching	34M9493	47.36	45.40	35.09
● 1.15108.151	Rectangular	SPDT	Latching	34M9488	33.89	32.48	25.11
● 1.15108.152	Rectangular	DPDT	Latching	34M9489	47.36	45.40	35.09

LENSES

Mfg. Part No.	Style	Color	Stock No.	Price Each		
				1-24	25-99	100-249
● 5.49257.011/1002	Round	...	96F1830	0.70	0.63	0.57
● 5.49257.011/1303	Round	Red	96F1831	0.70	0.63	0.57
● 5.49257.011/1402	Round	Yellow	96F1832	0.70	0.63	0.57
● 5.49257.011/1502	Round	Green	96F1833	0.70	0.63	0.57
● 5.49275.036/1303	Square	Red	96F1836	0.67	0.64	0.50
● 5.49275.036/1402	Square	Yellow	96F1837	0.67	0.64	0.50
● 5.49275.036/1002	Square	...	96F1835	0.67	0.64	0.50
● 5.49275.036/1502	Square	Green	96F1838	0.67	0.64	0.50
● 5.49275.036/1601	Square	Blue	96F1839	0.67	0.64	0.50
● 5.49275.032/1002	Rectangular	...	96F1840	0.67	0.64	0.50
● 5.49275.032/1303	Rectangular	Red	96F1841	0.67	0.64	0.50
● 5.49275.032/1402	Rectangular	Yellow	96F1842	0.67	0.64	0.50
● 5.49275.032/1502	Rectangular	Green	96F1843	0.67	0.64	0.50
● 5.49275.032/1601	Rectangular	Blue	30C9113	0.67	0.64	0.50

DIFFUSERS

● 5.72050.000/0202	Round	White	96F1776	0.66	0.64	0.49
● 5.73013.000/0202	Square	White	96F1777	0.67	0.64	0.50
● 5.73012.000/0202	Rectangular	White	96F1778	0.67	0.64	0.50

T-4.5 INCANDESCENT LAMPS

Mfg. Part No.	Power Rating (W)	Volts	Stock No.	Price Each		
				1-24	25-99	100-249
● 1.90100.021	3	6	52M8853	4.98	4.78	3.69
● 1.90100.022	0.48	12	52M8854	4.98	4.78	3.69
1.90100.023	0.48	24	96F1781	7.67	7.35	5.68

XB6 SERIES 16mm ILLUMINATED PUSHBUTTONS



The XB6 series offer direct-acting contacts and tactile/audible feedback in the same unit. Utilize integrated, maintenance-free, protected LED's which operate at 12 to 24VAC/VDC. Reverse polarity protection, spike and surge protection, and EMI protection. Complete units with quick connectors/solder tabs. Contacts: 1 N/O, 1 N/C. Contacts rated 3A, 300V, NEMA 4X rating. UL listed, CSA certified, CE compliant.

Mfg. Part No.	Description	Type of Push	Stock No.	Price Each	
				Each	2-4
XB6AF1B5B	White	Flush, Maintained	17C6989	58.26	55.42
XB6AF3B5B	Green	Flush, Maintained	17C6990	58.26	55.42
XB6AF4B5B	Red	Flush, Maintained	17C6991	58.26	55.42
XB6AF5B5B	Yellow	Flush, Maintained	17C6992	58.26	55.42
XB6AF6B5B	Blue	Flush, Maintained	17C6993	58.26	55.42
XB6AW1B5B	White	Flush, Spring Return	17C7001	58.26	55.42
XB6AW3B5B	Green	Flush, Spring Return	17C7002	58.26	55.42
XB6AW4B5B	Red	Flush, Spring Return	17C7003	58.26	55.42
XB6AW5B5B	Yellow	Flush, Spring Return	17C7004	58.26	55.42
XB6AW6B5B	Blue	Flush, Spring Return	17C7005	58.26	55.42

SQUARE

XB6CF1B5B	White	Flush, Maintained	17C7012	58.26	55.42
XB6CF3B5B	Green	Flush, Maintained	17C7013	58.26	55.42
XB6CF4B5B	Red	Flush, Maintained	17C7014	58.26	55.42
XB6CF5B5B	Yellow	Flush, Maintained	17C7015	58.26	55.42
XB6CF6B5B	Blue	Flush, Maintained	17C7016	58.26	55.42
XB6CW1B5B	White	Flush, Spring Return	17C7022	58.26	55.42

➔ CONTINUED ➔

XB6 SERIES 16mm ILLUMINATED PUSHBUTTONS (CONT.)

SQUARE

Mfg. Part No.	Description	Type of Push	Stock No.	Price Each	
				Each	2-4
XB6CW3B5B	Green	Flush, Spring Return	17C7023	58.26	55.42
XB6CW4B5B	Red	Flush, Spring Return	17C7024	58.26	55.42
XB6CW5B5B	Yellow	Flush, Spring Return	17C7025	58.26	55.42
XB6CW6B5B	Blue	Flush, Spring Return	17C7026	58.26	55.42

RECTANGULAR

XB6DF1B5B	White	Flush, Maintained	17C7034	58.26	55.42
XB6DF3B5B	Green	Flush, Maintained	17C7035	58.26	55.42
XB6DF4B5B	Red	Flush, Maintained	17C7036	58.26	55.42
XB6DF5B5B	Yellow	Flush, Maintained	17C7037	58.26	55.42
XB6DF6B5B	Blue	Flush, Maintained	17C7038	58.26	55.42
XB6DW1B5B	White	Flush, Spring Return	17C7046	58.26	55.42
XB6DW3B5B	Green	Flush, Spring Return	17C7047	58.26	55.42
XB6DW4B5B	Red	Flush, Spring Return	17C7048	58.26	55.42
XB6DW5B5B	Yellow	Flush, Spring Return	17C7049	58.26	55.42
XB6DW6B5B	Blue	Flush, Spring Return	17C7050	58.26	55.42

(61086)

ZB6 SERIES 16mm CONTACT BLOCKS

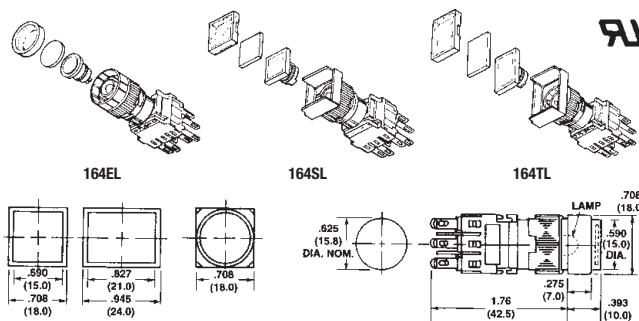
For use with XB6 series illuminated and non-illuminated pushbuttons (maximum of 3 contact blocks per mounting base). Contact material: silver alloy. Direct-acting contacts have a failure rate of less than 1 failure in 100,000,000 electrical operations (5V-1mA). Contacts rated 3A, 300V. UL listed, CSA certified, CE compliant.



Mfg. Part No.	Contacts	Stock No.	Price Each	
			Each	2-4
ZB6E1B	1 N/O	93B0763	8.58	8.19
ZB6E2B	1 N/C	97B9476	8.58	8.19

(61187)

COMMAND SERIES 16mm LIGHTED PUSHBUTTON SWITCHES



Instrument-grade switches feature snap-acting double-break, gold-plated, silver-clad contacts that satisfy logic level and power switching requirements. Electrically independent of one another and isolated from the lamp circuit, contacts are rated 0.4VA at 20VDC or peak AC, 5A at 250VAC or 24VDC resistive. Dielectric strength: 1,500Vrms. Life: 100,000 operations. Fit 0.625" (15.8) D panel hole. UL recognized E-51302. Units accept T-1 1/4 midget flange base lamp. Order lens button sets separately on page 1743.

NON-OILTIGHT SWITCHES
1 N.O. AND 1 N.C. CONTACTS

Mfg. Part No.	Action	Shape	Stock No.	Price Each	
				1-9	10-24
● 1571543-1	Momentary	Round	69K7011	25.09	24.18
● 164EL5-11	Push-On/Off	Round	52M8858	34.18	32.05
● 1571544-1	Momentary	Square	69K7012	17.87	17.22
● 1571545-1	Momentary	Rect.	69K7014	24.59	23.70
● 164TL-11	Momentary	Rect.	52M8861	21.49	20.13

2 N.O. AND 2 N.C. CONTACTS

● 164EL-22	Momentary	Round	30M8917	34.62	33.36
● 164EL5-22	Push-On/Off	Round	52M8859	26.90	25.92
● 1571544-2	Momentary	Square	69K7013	31.39	30.26
● 164SL5-22	Push-On/Off	Square	52M8860	30.10	28.21
● 164TL-22	Momentary	Rect.	46F3125	27.39	25.69
● 164TL5-22	Push-On/Off	Rect.	52M8862	30.10	28.21

3 N.O. AND 3 N.C. CONTACTS

● 164SL33	Momentary	Square	92F2880	41.85	40.34
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➔ CONTINUED ➔

SWITCHES – PUSHBUTTON 16MM • SWITCHES – PUSHBUTTON 22MM

COMMAND SERIES 16mm LIGHTED PUSHBUTTON SWITCHES (CONT.)

OILTIGHT SWITCHES

1 N.O. AND 1 N.C. CONTACTS

Mfg. Part No.	Action	Shape	Stock No.	Price Each	
				1-9	10-24
● 165SL511	Push - On/Off	Square	30M8925	33.47	32.26
2 N.O. AND 2 N.C. CONTACTS					
● 165SL22	Momentary	Square	30M8924	40.19	38.74
● 165TL-22	Momentary	Rectangular	31M6444	37.17	35.83
● 165TL522	Push - On/Off	Rectangular	31M6445	41.30	39.81

(4699)

COMMAND SERIES
LENS BUTTONS

ROUND

Mfg. Part No.	Color	Stock No.	Price Each			
			1-24	25-49	50-99	100-249
● 64E9	White	94F3301	1.46	1.34	1.24	1.14
● 64E2	Red	46F3148	1.44	1.32	1.23	1.13
● 64E3	Orange	46F3149	1.45	1.34	1.25	1.14
● 64E4	Yellow	46F3150	1.44	1.32	1.23	1.13
● 64E5	Green	46F3151	1.46	1.34	1.24	1.14

SQUARE

● 64S9	White	94F3303	1.45	1.33	1.24	1.14
● 64S2	Red	46F3143	1.45	1.33	1.24	1.14
● 64S3	Orange	46F3144	1.45	1.33	1.23	1.13
● 64S4	Yellow	46F3145	1.45	1.33	1.24	1.13
● 64S5	Green	46F3146	1.46	1.34	1.24	1.14

RECTANGULAR

● 64T9	White	94F3306	1.45	1.33	1.24	1.14
● 64T2	Red	46F3138	1.45	1.34	1.25	1.14
● 64T3	Orange	46F3139	1.45	1.33	1.23	1.13
● 64T4	Yellow	46F3140	1.34	1.26	1.21	1.16
● 64T5	Green	46F3141	1.45	1.33	1.24	1.14

(4701)

84 SERIES OIL AND WATERTIGHT
"HALO" PUSHBUTTON SWITCHES
AND INDICATORS

Just Added



Complete Halo Switch



Switch Unit



Lens



Tools

Features:

- Fresh new design for both industrial and commercial applications
- Glowing light emitted around edges of a raised aluminum lens by high intensity LED
- Low back-of-panel depth solution - 23mm to 31mm
- "Halo" style illumination provides high visibility of status indication
- Ideal for dimly lit applications - quickly attracts attention primary control or function
- Enhanced durability offered by required use of raised aluminum lens
- Other lens colors and styles offered

Specifications:

- 100mA at 42VAC/DC
- Circuitry: 1NO
- Power rating: 2W max
- ≤100mΩ resistance in a new state
- Mechanical life: ≥ 1 million operations
- Operating temperature: -13°F to +158°F/-25°C to +70°C
- Front dimension (bezel): 25mm
- Mounting hole diameter 22.5mm
- Oil and watertight - meet the IP67 standard

Use 4-step component process to create your "Halo" pushbutton switch or indicator:

- STEP 1: Choose housing
- STEP 2: Choose switching/indicator unit
- STEP 3: Choose lens
- STEP 4: Choose tools (optional)

STEP 1: HOUSINGS

Mfg. Part No.	Description	Stock No.	Price Each	
			1-24	
● 84-1091.7	Momentary illuminated pushbutton actuator, translucent "Halo" plastic	08N6158	11.92	
● 84-0909.7	Indicator body, translucent "Halo" plastic	08N6116	11.39	

➤ CONTINUED ➤

84 SERIES OIL AND WATERTIGHT "HALO" PUSHBUTTON SWITCHES AND INDICATORS (CONT.)

STEP 2: SWITCH UNITS

Mfg. Part No.	Description	Stock No.	Price Each	
			1-24	
● 84-8511.2620	Illuminated 1NO switch element, 24VDC, single chip red LED, solder/plug-in terminals	08N6128	13.24	
● 84-8511.3620	Illuminated 1NO switch element, 24VDC, single chip orange LED, solder/plug-in terminals	08N6130	13.24	
● 84-8511.4620	Illuminated 1NO switch element, 24VDC, single chip yellow LED, solder/plug-in terminals	08N6132	13.24	
● 84-8511.5620	Illuminated 1NO switch element, 24VDC, single chip green LED, solder/plug-in terminals	08N6134	15.86	
● 84-8511.6620	Illuminated 1NO switch element, 24VDC, single chip blue LED, solder/plug-in terminals	33M8053	26.26	
● 84-8511.9620	Illuminated 1NO switch element, 24VDC, single chip white LED, solder/plug-in terminals	02J7403	19.62	

STEP 3: LENSES

● 84-7205.200A	Red aluminum lens, raised for "Halo" illumination	08N6123	6.78
● 84-7205.400A	Yellow aluminum lens, raised for "Halo" illumination	08N6124	6.78
● 84-7205.500A	Green aluminum lens, raised for "Halo" illumination	08N6125	6.78
● 84-7205.800A	Natural aluminum lens, raised for "Halo" illumination	01P0993	6.78
● 84-7202.200A	Red aluminum lens, raised for "Halo" illumination, convex	08N6118	18.01
● 84-7202.500A	Green aluminum lens, raised for "Halo" illumination, convex	08N6120	18.01
● 84-7202.800A	Natural aluminum lens, raised for "Halo" illumination, convex	01P0992	18.01

STEP 4: TOOLS

● 61-9730.0	Flush mount lens remover	97F7715	3.26
● 84-997	Mounting tool	93B9431	3.52
● 84-998	Switch element remover	52F3544	1.20

(116599)

84 SERIES OIL AND WATERTIGHT MOMENTARY
PUSHBUTTON SWITCHES

Just Added



Complete Switch



Complete Indicator w/Window Lens



Housing



Lens



Aluminum lens w/Window



Tools

Features:

- Attractive, low-profile, momentary switching units give fresh, modern appearance
- Low back-of-panel depth solution - 23mm to 31mm
- Ideal for applications which require durability and longevity of much larger, heavy-duty pushbuttons
- Other lens colors and styles offered
- "Halo" style lens illuminate outer edges of lens providing high visibility of status indication

Specifications:

- 100mA at 42VAC/DC
- Circuitry: 1NO
- Power rating: 2W max
- ≤100mΩ resistance in a new state
- Mechanical life: ≥ 1 million operations
- Operating temperature: -13°F to +158°F/-25°C to +70°C
- Front dimension (bezel): 25mm
- Mounting hole diameter 22.5mm
- Oil and watertight - meet the IP67 standard

Use 4-step component process to create your "Halo" pushbutton switch or indicator:

- STEP 1: Choose housing
- STEP 2: Choose switching/indicator unit
- STEP 3: Choose lens
- STEP 4: Choose tools (optional)

STEP 1: HOUSINGS

Mfg. Part No.	Description	Stock No.	Price Each	
			1-24	
● 84-1101.0	Momentary illuminated pushbutton actuator, black plastic	52F472	4.51	
● 84-1201.7	Momentary illuminated pushbutton actuator, natural aluminum	52F473	13.54	

STEP 2: SWITCH UNITS

● 84-8512.2620	Illuminated 1NO switch element, 24VDC, red multi-chip LED, solder/plug-in terminals	08N5655	12.66
● 84-8512.4620	Illuminated 1NO switch element, 24VDC, yellow multi-chip LED, solder/plug-in terminals	35C1208	16.23

➤ CONTINUED ➤

SWITCHES – PUSHBUTTON 22MM

84 SERIES OIL AND WATERTIGHT MOMENTARY PUSHBUTTON SWITCHES (CONT.)

STEP 2: SWITCH UNITS

Mfg. Part No.	Description	Stock No.	Price Each 1-24
● 84-8512.5620	Illuminated 1NO switch element, 24VDC, green multi-chip LED, solder/plug-in terminals	76K1165	13.04
● 84-8511.6620	Illuminated 1NO switch element, 24VDC, blue single-chip LED, solder/plug-in terminals	33M8053	26.26
● 84-8511.9620	Illuminated 1NO switch element, 24VDC, white single-chip LED, solder/plug-in terminals	02J7403	19.62
● 84-8510.0020	Non-illuminated 1NO switch element, solder/plug-in terminals	76K1163	8.66
● 84-8515.8640	Illuminated 1NO switch element, 24VDC, red/green single chip LED, cable termination	08N8004	19.37
● 84-8512.2640	Illuminated 1NO switch element, 24VDC, red multi-chip LED, cable termination	80K8517	15.53
● 84-8512.4640	Illuminated 1NO switch element, 24VDC, yellow multi-chip LED, cable termination	76K1164	15.68

STEP 3: LENSES

● 84-7111.200	Red plastic lens, white diffuser, flush	52F474	2.01
● 84-7111.400	Yellow plastic lens, white diffuser, flush	52F476	2.01
● 84-7111.500	Green plastic lens, white diffuser, flush	52F477	2.01
● 84-7111.600	Blue plastic lens, white diffuser, flush	52F478	2.01
● 84-7111.700	Clear plastic lens, white diffuser, flush	91B1779	2.01
● 84-7111.201	Red plastic lens, white diffuser, flush - "Halo" style with silver/gray lacquer	08N7993	5.11
● 84-7111.401	Yellow plastic lens, white diffuser, flush - "Halo" style with silver/gray lacquer	08N7995	5.11
● 84-7111.501	Green plastic lens, white diffuser, flush - "Halo" style with silver/gray lacquer	08N7996	5.11
● 84-7111.601	Blue plastic lens, white diffuser, flush - "Halo" style with silver/gray lacquer	08N7997	5.37
● 84-7111.701	Clear plastic lens, white diffuser, flush - "Halo" style with silver/gray lacquer	08N7998	5.11
● 84-7124.200A	Red plastic lens, mushroom	08N8000	10.73
● 84-7124.500A	Green plastic lens, mushroom	08N8002	10.73
● 84-7201.200	Red anodized aluminum lens, flush	12C1579	5.78
● 84-7201.400	Yellow anodized aluminum lens, flush	52F504	5.78
● 84-7201.500	Green anodized aluminum lens, flush	52F505	5.75
● 84-7201.800	Natural anodized aluminum lens, flush	52F507	5.78
● 84-7211.800	Natural anodized aluminum lens with illumination window, flush	52F490	10.54

STEP 4: TOOLS

● 61-9730.0	Flush mount lens remover	97F7715	3.26
● 84-997	Mounting tool	93B9431	3.52
● 84-998	Switch element remover	52F3544	1.20

84 SERIES ILLUMINATED OIL AND WATERTIGHT INDICATORS

Just Added

eao

Complete Indicator
w/Window lensComplete Halo
Diffused Indicator

Housing



Switch Unit



Tools

Specifications:

- 100mA at 42VAC/DC
- Circuitry: 1NO
- Power rating: 2W max
- <100mΩ resistance in a new state
- Mechanical life: ≥ 1 million operations
- Operating temperature: -13°F to +158°F/-25°C to +70°C
- Front dimension (bezel): 25mm
- Mounting hole diameter 22.5mm
- Oil and watertight - meet the IP67 standard

Features:

- Sleek contemporary look
- Functionally flush by being just 2.0mm above the front panel
- Low back-of-panel depth solution - 23mm to 31mm
- Complement Series 84 pushbuttons
- Assurance, confidence, and quality of EAO
- "Halo" style lens illuminate outer edges of lens providing high visibility of status indication
- Other lens colors and styles offered

➤ CONTINUED ➤

84 SERIES ILLUMINATED OIL AND WATERTIGHT INDICATORS (CONT.)

Use 4-step component process to create your "Halo" pushbutton switch or indicator:

- STEP 1: Choose housing
- STEP 2: Choose switching/indicator unit
- STEP 3: Choose lens
- STEP 4: Choose tools (optional)

STEP 1: HOUSINGS

Mfg. Part No.	Description	Stock No.	Price Each 1-24
● 84-0100.0	Indicator body, black plastic	52F470	4.06
● 84-0200.7	Indicator body, natural aluminum	52F471	10.98

STEP 2: SWITCH UNITS

● 84-8002.2620	Indicator element, 24VDC, red multi-chip LED, solder/plug-in terminals	52F491	11.48
● 84-8002.4620	Indicator element, 24VDC, yellow multi-chip LED, solder/plug-in terminals	52F495	12.30
● 84-8002.5620	Indicator element, 24VDC, green multi-chip LED, solder/plug-in terminals	52F497	11.94
● 84-8001.6620	Indicator element, 24VDC, blue single-chip LED, solder/plug-in terminals	21M6857	17.37
● 84-8001.9620	Indicator element, 24VDC, white single-chip LED, solder/plug-in terminals	79K3578	18.26

STEP 3: LENSES

● 84-7111.200	Red plastic lens, white diffuser, flush	52F474	2.01
● 84-7111.400	Yellow plastic lens, white diffuser, flush	52F476	2.01
● 84-7111.500	Green plastic lens, white diffuser, flush	52F477	2.01
● 84-7111.600	Blue plastic lens, white diffuser, flush	52F478	2.01
● 84-7111.700	Clear plastic lens, white diffuser, flush	91B1779	2.01
● 84-7111.201	Red plastic lens, white diffuser, flush - "Halo" style with silver/gray lacquer	08N7993	5.11
● 84-7111.401	Yellow plastic lens, white diffuser, flush - "Halo" style with silver/gray lacquer	08N7995	5.11
● 84-7111.501	Green plastic lens, white diffuser, flush - "Halo" style with silver/gray lacquer	08N7996	5.11
● 84-7111.601	Blue plastic lens, white diffuser, flush - "Halo" style with silver/gray lacquer	08N7997	5.37
● 84-7111.701	Clear plastic lens, white diffuser, flush - "Halo" style with silver/gray lacquer	08N7998	5.11
● 84-7211.800	Natural anodized aluminum lens with illumination window, flush	52F490	10.54

STEP 4: TOOLS

● 61-9730.0	Flush mount lens remover	97F7715	3.26
● 84-997	Mounting tool	93B9431	3.52
● 84-998	Switch element remover	52F3544	1.20

(116601)

14 SERIES 22mm PUSHBUTTON AND MUSHROOM SWITCHES

NEMA

RoHS
Compliant
Available

eao



STEP 1: Round Pushbutton



STEP 1: Mushroom Pushbutton

STEP 1: Extreme-Duty
Mushroom Pushbutton

Features:

- Front panel replaceable lens and illumination
- Flush mount version available
- Legends are possible by engraving and hot stamping
- Low level switching elements offered
- Blue and white LEDs available; go online or call

Specifications:

- Contact rating: 5A at 250VAC; 2A at 24VDC
- Standard mounting in 22.5mm diameter hole (0.875")
- Oil watertight to NEMA 4 and 13 standards (IP67)
- Flush style mount in 30.5mm diameter hole (1.20")
- Utilizes T-5.5 slide base lamps and LEDs

STEP 2: Illumination



Use 2-Step Component Process to Assemble Complete Switch:

- STEP 1: Choose pushbutton
- STEP 2: Choose illumination (optional)

STEP 1: ROUND PUSHBUTTON SWITCHES

Mfg. Part No.	Circuitry	Function	Color	Stock No.	Price Each 1-24
● EUS-14-131.025-1192X	SPDT	(On)	Red	45C7054	29.44
● EUS-14-131.025-1194X	SPDT	(On)	Yellow	79K3543	30.20
● EUS-14-131.025-1195X	SPDT	(On)	Green	79K3544	29.64
● 14 131 025 1196X	SPDT	(On)	Blue	84F567	30.89
● EUS-14-131.025-1197X	SPDT	(On)	White	79K3545	30.20
● EUS-14-132.025-1192X	DPDT	(On)	Red	84F568	38.42

➤ CONTINUED ➤

SWITCHES – PUSHBUTTON 22MM

14 SERIES 22mm PUSHBUTTON AND MUSHROOM SWITCHES (CONT.)

Mfg. Part No.	Circuitry	Function	Color	Stock No.	Price Each
● EUS-14-132.025-1194X	DPDT	(On)	Yellow	79K3546	37.57
● EUS-14-132.025-1195X	DPDT	(On)	Green	79K3547	35.21
● EUS-14-132.025-1196X	DPDT	(On)	Blue	86H2600	38.42
● EUS-14-132.025-1197X	DPDT	(On)	White	79K3548	37.57
● EUS-14-271.025-1192X	SPDT	On	Red	67K8950	32.16
● EUS-14-271.025-1194X	SPDT	On	Yellow	79K3549	32.16
● EUS-14-271.025-1195X	SPDT	On	Green	79K3550	32.16
● EUS-14-271.025-1196X	SPDT	On	Blue	79K3551	32.89
● EUS-14-271.025-1197X	SPDT	On	White	84F569	32.89
● EUS-14-272.025-1192X	DPDT	On	Red	79K3552	37.62
● EUS-14-272.025-1194X	DPDT	On	Yellow	79K3553	36.84
● EUS-14-272.025-1195X	DPDT	On	Green	79K3554	39.20
● EUS-14-272.025-1196X	DPDT	On	Blue	79K3555	36.84
● EUS-14-272.025-1197X	DPDT	On	White	79K3556	36.84

STEP 1: MUSHROOM PUSHBUTTON — NON-ILLUMINATED

● EUS-14-131.025-4612X	SPDT	(On)	Red	84F571	32.15
● EUS-14-132.025-4612X	DPDT	(On)	Red	84F553	36.95

STEP 1: EXTREME-DUTY MUSHROOM PUSHBUTTON — NON-ILLUMINATED

● EUS-14-131.022/044	SPDT	(On)	Red	30C8259	38.12
● EUS-14-131.022/045	SPDT	(On)	Black	30C8260	36.64

STEP 2: ILLUMINATOR

Mfg. Part No.	Forward Voltage	Bulb Type	Color	Stock No.	Price Each
● 10-1106.1369	6V	Incandescent Bulb	...	40C1788	1.92
● 10-1109.1329	12V	Incandescent Bulb	...	76K1087	2.11
● 10-1112.1279	24V	Incandescent Bulb	...	76K1088	2.11
● 10-2106.3142	6VDC	Single Chip LED	Red	79K3557	8.95
● 10-2106.3144	6VDC	Single Chip LED	Yellow	79K3558	10.41
● 10-2106.3145	6VDC	Single Chip LED	Green	79K3559	8.96
● 10-2109.1062	12VAC/DC	Single Chip LED	Red	79K3562	9.02
● 10-2109.1064	12VAC/DC	Single Chip LED	Yellow	79K3563	8.85
● 10-2112.1062	24VAC/DC	Single Chip LED	Red	78K6783	9.30
● 10-2112.1064	24VAC/DC	Single Chip LED	Yellow	76K1091	9.30
● 10-2112.1065	24VAC/DC	Single Chip LED	Green	76K1092	9.30

(87538)

61 SERIES 22mm FLUSH MOUNT SWITCHES, LENSES, AND ADAPTERS



eao

61 series has the over-hanging lens feature with the convertible actuator. Used with flush mount adapters for flush panel appearance. Dimensions: (round bezel - 22.5mm); (rectangular bezel - 27 x 21mm); and (square bezel - 21 x 21mm). Round pushbutton also available; go online or call.



SWITCHES

Mfg. Part No.	Description	Stock No.	Price Each
● 61 138 0027X	Rectangular DPST, N.O./N.C.	84F546	18.89 16.48
● 61 137 0021X	Square SPST, N.O.	84F547	21.43 18.69
● 61 137 0022X	Square DPST, N.O.	84F548	27.40 23.90

LENSES

● 61-9681.4	Rectangular Yellow Lens	48F3718	2.37	2.07
● 61-9681.5	Rectangular Green Lens	95B8273	2.42	2.11
● 61-9671.2	Square Red Lens	48F3719	2.42	2.11
● 61-9671.5	Square Green Lens	48F3720	2.32	2.02

FLUSH MOUNT ADAPTER

● 61-9930.0	Square, Black Plastic	48F3716	3.75	3.27
● 61-993.10	Rectangular, Black Plastic	95F7138	3.67	3.20

(5022)

New products added weekly

(148886)

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704 SERIES 22.5mm PUSHBUTTON SWITCHES AND INDICATORS



eao



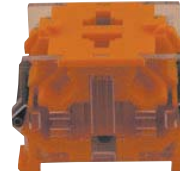
STEP 1: Indicator



STEP 1: Flush-mount Pushbutton



STEP 1: Illuminated Pushbutton



STEP 2: Contact Block



STEP 3: Illumination



STEP 4: Accessory/Tool

Features:

- Modular construction for easy assembly
- IP65 protection
- NEMA 4 and 13 rating
- Screw termination; quick connect also available
- Blue and white LEDs also available; go online or call

Specifications:

- Raised mounting into 22.5mm cutout
- Flush mounting into 30.5mm cutout
- Standard transparent lenses and translucent diffusers
- Max switch rating: 10A at 600VAC
- Suffix "BX" indicates black anodized aluminum
- Suffix "NX" indicates natural anodized aluminum

STEP 1: PUSHBUTTON

Mfg. Part No.	Action	Lens Color	Bezel Material	Shape	Illuminated	Stock No.	Price Each
● 704 01 1692X	(On)	Red	Gray Plastic	Round	Yes	50F7288	20.02
● 704 01 1694X	(On)	White	Gray Plastic	Round	Yes	50F7289	20.02
● 704 01 1695X	(On)	Green	Gray Plastic	Round	Yes	50F7290	20.02
● EUS-704.01-1696X	(On)	Blue	Gray Plastic	Round	Yes	79K1966	20.02
● EUS-704.01-1697X	(On)	White	Gray Plastic	Round	Yes	02J6082	20.02
● EUS-704.02-1692X	(On)	Red	Gray Plastic	Round	Yes	78H1972	11.82
● EUS-704.02-1694X	(On)	White	Gray Plastic	Round	No	02J6252	11.81
● EUS-704.02-1695X	(On)	Green	Gray Plastic	Round	No	78H1973	11.82
● EUS-704.02-1696X	(On)	Blue	Gray Plastic	Round	No	79K1974	12.15
● 704 02 1697X	(On)	White	Gray Plastic	Round	No	50F7291	12.15
● EUS-704.01-5692X	On	Red	Gray Plastic	Round	Yes	79K1968	21.36
● 704 01 5694X	On	White	Gray Plastic	Round	Yes	50F7293	20.85
● 704 01 5695X	On	Green	Gray Plastic	Round	Yes	50F7294	21.36
● EUS-704.01-5696X	On	Blue	Gray Plastic	Round	Yes	79K1969	21.36
● EUS-704.01-5697X	On	White	Gray Plastic	Round	Yes	79K1970	21.36
● 704 03 1162X	(On)	Red	Gray Plastic	Square	Yes	50F7298	22.24
● 704 03 1164X	(On)	White	Gray Plastic	Square	Yes	50F7299	22.71
● 704 03 1165X	(On)	Green	Gray Plastic	Square	Yes	50F7300	22.71
● EUS-704.03-1166X	(On)	Blue	Gray Plastic	Square	Yes	79K1975	21.23
● EUS-704.03-1167X	(On)	White	Gray Plastic	Square	Yes	02J6359	21.78
● EUS-704.03-3062X	(On)	Red	Gray Plastic	Square	No	02J6387	14.84
● EUS-704.03-3064X	(On)	White	Gray Plastic	Square	No	02J6389	13.82
● EUS-704.03-3065X	(On)	Green	Gray Plastic	Square	No	02J6390	13.72
● EUS-704.03-3066X	(On)	Blue	Gray Plastic	Square	No	02J6392	13.82
● 704 03 3067X	(On)	White	Gray Plastic	Square	No	50F7301	14.84
● 704 03 5162X	On	Red	Gray Plastic	Square	Yes	50F7302	22.29
● 704 03 5164X	On	White	Gray Plastic	Square	Yes	50F7303	23.80
● 704 03 5165X	On	Green	Gray Plastic	Square	Yes	50F7304	23.80
● EUS-704.03-5166X	On	Blue	Gray Plastic	Square	Yes	79K1976	23.25
● EUS-704.03-5167X	On	White	Gray Plastic	Square	Yes	79K1977	23.80

STEP 1: FLUSH MOUNT PUSHBUTTON

● 704-01-1892NX	(On)	Red	...	Round	Yes	92F7661	32.21
● 704-01-1894NX	(On)	White	...	Round	Yes	92F7663	32.94
● EUS-704.01-1895NX	(On)	Green	...	Round	Yes	79K4199	32.20
● EUS-704.01-1896NX	(On)	Blue	...	Round	Yes	79K1967	32.18
● EUS-704.01-1897NX	(On)	White	...	Round	Yes	05C2081	31.40
● EUS-704.01-1892BX	(On)	Red	...	Round	Yes	79K4197	32.94
● EUS-704.01-1894BX	(On)	White	...	Round	Yes	79K4198	31.61
● EUS-704.01-5892NX	On	Red	...	Round	Yes	20C9038	34.27
● EUS-704.01-5894NX	On	White	...	Round	Yes	79K4202	34.27
● EUS-704.01-5895NX	On	Green	...	Round	Yes	79K1971	33.51
● EUS-704.01-5896NX	On	Blue	...	Round	Yes	79K1972	32.05

» CONTINUED »

SWITCHES – PUSHBUTTON 22MM

704 SERIES 22.5mm PUSHBUTTON SWITCHES AND INDICATORS (CONT.)

STEP 1: FLUSH MOUNT PUSHBUTTON

Mfg. Part No.	Action	Lens Color	Bezel Material	Shape	Illuminated	Stock No.	Price Each
							1-24
● EUS-704.01-5897NX	On	White	...	Round	Yes	79K1973	34.27
● EUS-704.01-5892BX	On	Red	...	Round	Yes	79K4200	34.27
● EUS-704.01-5894BX	On	White	...	Round	Yes	79K4201	33.32

STEP 1: INDICATOR

Mfg. Part No.	Bezel	Color	Stock No.	Price Each
				1-24
● 704 0002X	Round	Red	50F7306	16.57
● EUS-704.000.4X	Round	Yellow	79K1965	17.39
● EUS-704.000.5X	Round	Green	50F7308	17.39
● EUS-704.000.6X	Round	Blue	02J6022	17.39
● EUS-704.000.7X	Round	White	81C8501	17.39
● 704 2002X	Square	Red	50F7309	19.02
● EUS-704.200.4X	Square	Yellow	02J6442	18.40
● 704 2005X	Square	Green	50F7311	19.04
● EUS-704.200.6X	Square	Blue	79K4203	19.21
● EUS-704.200.7X	Square	White	02J6446	19.68

STEP 3: ILLUMINATION (OPTIONAL)

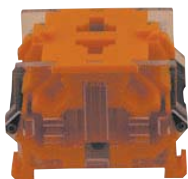
Mfg. Part No.	Voltage	Bulb Type	Color	Stock No.	Price Each
					1-24
● 10-1406.1369	6V	Incandescent Bulb	...	88C0671	2.51
● 10-1409.1329	12V	Incandescent Bulb	...	19C2536	2.18
● 10-1412.1279	24V	Incandescent Bulb	...	76K1090	2.07
● 10-1422.1179	110V	Incandescent Bulb	...	01M9805	4.89
● 10-2512.1142	24VAC/DC	Single Chip LED	Red	76K1096	12.04
● 10-2512.1144	24VAC/DC	Single Chip LED	Yellow	76K1097	12.40
● 10-2512.1145	24VAC/DC	Single Chip LED	Green	76K1098	12.04
● 10-2H24.2052	130VAC	Single Chip LED	Red	73K3636	12.04
● 10-2H24.2054	130VAC	Single Chip LED	Yellow	73K3639	12.40
● 10-2H24.2055	130VAC	Single Chip LED	Green	97J9860	12.40

STEP 4: ACCESSORIES AND TOOLS (OPTIONAL)

Mfg. Part No.	Description	Stock No.	Price Each
			1-24
● 700.006.0	Lens, LED, and Lamp Remover	01H5134	12.64
● 704.962.5	Legend Plate	50F7314	2.49
● 704.950.0	Lamp Holder, Screw Terminals	66F9750	7.44
● 704.925.0	Round Hinged Protective Cover for Pushbuttons	19C6692	13.55

(5089)

704 AND 61 SERIES CONTACT BLOCKS



Feature hard silver contacts; available in 10-amp snap action (SA) or slow make/slow break (SM) configurations. Offer screw terminations, and up to four contact blocks may be connected to any actuator. ISO 9001 certified. Gold and palladium contacts also available, go online or call.

Mfg. Part No.	Circuitry	Switch Element	Termination	Stock No.	Price Each
					1-24
● 704.900.1	SPST-NO	Snap-Action	Screw	50F7315	7.03
● 704.900.2	SPST-NC	Snap-Action	Screw	50F7316	7.03
● 704.900.3	DPST-2NO	Snap-Action	Screw	19C0344	10.28
● 704.900.4	DPST-2NC	Snap-Action	Screw	50F7318	10.28
● 704.900.5	DPST-1NO/1NC	Snap-Action	Screw	50F7319	10.28
● 704.910.1	SPST-NO	Slow-Make	Screw	50F7323	7.03
● 704.910.2	SPST-NC	Slow-Make	Screw	50F7324	7.03
● 704.910.3	DPST-2NO	Slow-Make	Screw	50F7320	10.28
● 704.910.4	DPST-2NC	Slow-Make	Screw	50F7321	10.28
● 704.910.5	DPST-1NO/1NC	Slow-Make	Screw	50F7322	10.28
● 61-8410.22	SPST-NO	0.110" QC/Solder		97B0336	9.58
● 61-8440.22	SPST-NC	0.110" QC/Solder		97B4444	10.41
● 61-8470.22	DPST-1NO/1NC	0.110" QC/Solder		83F3621	12.50
● 61-8490.22	3PST-2NO/1NC	0.110" QC/Solder		77C5701	15.82
● 61-8610.11	SPST-NO	Slow-Make	Screw	30B4822	13.26
● 61-8610.17	SPST-NO	Slow-Make	0.110" QC/Solder	30B4823	8.75

➔ CONTINUED ➔

704 AND 61 SERIES CONTACT BLOCKS (CONT.)

Mfg. Part No.	Circuitry	Switch Element	Termination	Stock No.	Price Each
					1-24
● 61-8610.37	SPST-NO	Slow-Make	0.110" QC/Solder	30B4824	10.41
● 61-8640.11	SPST-NC	Slow-Make	Screw	30B4829	13.26
● 61-8640.17	SPST-NC	Slow-Make	0.110" QC/Solder	30B4830	8.75
● 61-8640.37	DPST-1NO/1NC	Slow-Make	0.110" QC/Solder	30B4831	10.12
● 61-8670.17	DPST-1NO/1NC	Slow-Make	0.110" QC/Solder	30B4836	11.32
● 61-8670.37	DPST-1NO/1NC	Slow-Make	0.110" QC/Solder	30B4837	12.75
● 61-8755.11	DPST-2NC	Slow-Make	Screw	30B4847	19.35

704 SERIES ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each
			1-24
● 704.950.0	Lamp Holder, Screw Terminals	66F9750	7.44
● 704.950.1	LAMP HOLDER-QC TERMINAL	27C1102	7.44
● 704.955.0	FLUSH MNT ADAPTER ANDOZ	29C4192	12.60
● 704.604.5	MUSHROOM CAP, GREEN	84C8807	2.77

(5092)

EAO SWITCH LAMPS, LEDs AND TOOLS



Features:

- New Single chip LEDs offer high intensity "daylight readable" illumination
- LEDs offer high reliability and durability often needed for volatile applications and hazardous environments
- LEDs are available in custom colors, voltages and styles; go online or call
- LEDs have a low current consumption and a virtually unlimited life
- EAO single chip LEDs can now handle both AC and DC current

Specifications:

- Both incandescent and LEDs are offered in a range of voltages from 6V to 230V
- Industry standard bases



INCANDESCENT LAMPS

Mfg. Part No.	EAO Series	Voltage Rating	Stock No.	Price Each
				1-24
● 10-1106.1369	14, 01	6V	40C1788	1.92
● 10-1109.1329	14, 01	12V	76K1087	2.11
● 10-1112.1279	14, 01	24V	76K1088	2.11
● 10-1307.1369	31, 51, 61	6.3V	10C2740	2.00
● 10-1310.1319	31, 51, 61	14V	01M9804	2.00
● 10-1313.1249	31, 51, 61	28V	76K1089	1.90
● 10-1406.1369	44, 04	6V	88C0671	2.51
● 10-1409.1329	44, 04	12V	19C2536	2.18
● 10-1412.1279	44, 04	24V	76K1090	2.07
● 10-1422.1179	44, 04	110V	01M9805	4.89

SINGLE CHIP LEDs

Mfg. Part No.	EAO Series	Voltage Rating	Color	Stock No.	Price Each
					1-24
● 10-2106.3142	14, 01	6VDC	Red	79K3557	8.95
● 10-2106.3144	14, 01	6VDC	Yellow	79K3558	10.41
● 10-2106.3145	14, 01	6VDC	Green	79K3559	8.96
● 10-2106.3146	14, 01	6VDC	Blue	79K3560	12.52
● 10-2106.3149	14, 01	6VDC	White	79K3561	12.15
● 10-2109.1062	14, 01	12VAC/DC	Red	79K3562	9.02
● 10-2109.1064	14, 01	12VAC/DC	Yellow	79K3563	8.85
● 10-2109.1065	14, 01	12VAC/DC	Green	27M9674	10.41
● 10-2109.1066	14, 01	12VAC/DC	Blue	79K3564	11.97
● 10-2109.1069	14, 01	12VAC/DC	White	11J1699	12.15
● 10-2112.1062	14, 01	24VAC/DC	Red	78K6783	9.30
● 10-2112.1064	14, 01	24VAC/DC	Yellow	76K1091	9.30
● 10-2112.1065	14, 01	24VAC/DC	Green	76K1092	9.30
● 10-2112.1066	14, 01	24VAC/DC	Blue	02J6845	12.52
● 10-2112.1069	14, 01	24VAC/DC	White	97C8088	10.01
● 10-2512.1142	44, 04	24VAC/DC	Red	76K1096	12.04
● 10-2512.1144	44, 04	24VAC/DC	Yellow	76K1097	12.40
● 10-2512.1145	44, 04	24VAC/DC	Green	76K1098	12.04
● 10-2512.1146	44, 04	24VAC/DC	Blue	51J9272	15.64
● 10-2512.1149	44, 04	24VAC/DC	White	02J6854	15.64
● 10-2H24.2052	44, 04	130VAC	Red	73K3636	12.04
● 10-2H24.2054	44, 04	130VAC	Yellow	73K3639	12.40
● 10-2H24.2055	44, 04	130VAC	Green	97J9860	12.40
● 10-2H24.2056	44, 04	130VAC	Blue	73K3640	15.64
● 10-2H24.2059	44, 04	130VAC	White	73K3642	16.10
● 10-2J06.3142	31, 51, 61	6VDC	Red	82K8958	9.02
● 10-2J06.3144	31, 51, 61	6VDC	Yellow	82K8959	10.41

➔ CONTINUED ➔

SWITCHES – PUSHBUTTON 22MM

EAO SWITCH LAMPS, LEDS AND TOOLS (CONT.)

Mfg. Part No.	EAO Series	Voltage Rating	Color	Stock No.	Price Each	
					1-24	
● 10-2J06.3145	31, 51, 61	6VDC	Green	82K8960	9.02	
● 10-2J06.3146	31, 51, 61	6VDC	Blue	82K8961	12.15	
● 10-2J06.3149	31, 51, 61	6VDC	White	82K8962	12.15	
● 10-2J09.1062	31, 51, 61	12VAC/DC	Red	82K8963	9.30	
● 10-2J09.1064	31, 51, 61	12VAC/DC	Yellow	82K8964	9.30	
● 10-2J09.1065	31, 51, 61	12VAC/DC	Green	82K8965	8.83	
● 10-2J09.1066	31, 51, 61	12VAC/DC	Blue	82K8966	12.52	
● 10-2J09.1069	31, 51, 61	12VAC/DC	White	82K8967	10.85	
● 10-2J12.1062	31, 51, 61	24VAC/DC	Red	10M8600	10.21	
● 10-2J12.1064	31, 51, 61	24VAC/DC	Yellow	96K5724	9.03	
● 10-2J12.1065	31, 51, 61	24VAC/DC	Green	99K5332	10.41	
● 10-2J13.1062	31, 51, 61	28VAC/DC	Red	80K6966	9.30	
● 10-2J13.1064	31, 51, 61	28VAC/DC	Yellow	27M9673	9.30	
● 10-2J13.1065	31, 51, 61	28VAC/DC	Green	82K8969	9.02	
● 10-2J13.1066	31, 51, 61	28VAC/DC	Blue	82K8970	10.85	
● 10-2J13.1069	31, 51, 61	28VAC/DC	White	82K8971	10.01	

TOOLS

Mfg. Part No.	EAO Series	Description	Stock No.	Price Each	
				1-24	
● 02-906	14, 01, 31, 51, 61	Lamp Remover	50F8270	1.95	
● 700.006.0	04, 44	Lamp Remover	01H5134	12.64	
● 61-9740.0	...	LED Remover	29H3481	1.85	

(78980)

22mm ILLUMINATED PUSHBUTTONS

NEMA

Just Added

EATON

Features:

- Quick installation with modular construction
- Mounting base included with operators
- Notched hole mounting with anti-rotation tab



Pushbutton



Double Pushbutton

Specifications:

- LED rating: 100,000 hours of expected life in high vibration environments
- Contact rating: 4A @ 230VAC, 3A @ 24VDC
- Rated to max. 500VAC and 220VDC
- Heavy duty construction UL NEMA type 4X/13 and IP66, IP67 and IP69K on front of panel

NOTE: LED light unit, contact block and optional legend plate must be added to all illuminated pushbuttons.

ILLUMINATED PUSHBUTTONS

Mfg. Part No.	Color	Style	Bezel	Stock No.	Price Each	
					1-9	10-24
M22S-DL-W	White	Off-(On)	Black	10R1931	8.70	7.88
M22S-DL-R	Red	Off-(On)	Black	10R1930	8.70	7.88
M22S-DL-G	Green	Off-(On)	Black	10R1929	8.70	7.88
M22-DL-W	White	Off-(On)	Silver	10R1813	10.29	9.32
M22-DL-R	Red	Off-(On)	Silver	10R1812	10.29	9.32
M22-DL-G	Green	Off-(On)	Silver	10R1811	10.29	9.32
M22-DL-B	Blue	Off-(On)	Silver	10R1810	10.29	9.32
M22-DGL-W	White	Off-(On)	Silver w/ Guard	10R1803	18.24	16.52
M22-DGL-R	Red	Off-(On)	Silver w/ Guard	10R1802	18.24	16.52
M22-DGL-G	Green	Off-(On)	Silver w/ Guard	10R1801	18.24	16.52
M22S-DRLH-W	White	On-Off	Black	10R1945	15.90	14.40
M22S-DRLH-R	Red	On-Off	Black	10R1944	15.90	14.40
M22S-DRLH-G	Green	On-Off	Black	10R1943	15.90	14.40

ILLUMINATED DOUBLE PUSHBUTTONS

M22S-DDL-GR	Green/Red	Off-(On)	Black	10R1923	31.01	28.08
M22-DDL-GR-GB1-GB0	Green/Red	Off-(On)	Black	10R1793	33.66	30.48
M22-DDL-GR	Green/Red	Off-(On)	Silver	10R1792	32.60	29.52
M22-DDL-WS	White/Black	Off-(On)	Silver	10R1794	32.60	29.52
M22-DDLF-GR	Green/Red	Off-(On)	Silver	10R1795	32.60	29.52
M22-DDLF-WS	White/Black	Off-(On)	Silver	10R1796	32.60	29.52
M22-DDLM-GR	Green/Red	Off-(On)	Silver	10R1797	32.60	29.52
M22-DDLM-WS	White/Black	Off-(On)	Silver	10R1798	33.66	30.48

ILLUMINATED EMERGENCY STOPS

Mfg. Part No.	Description	Stock No.	Price Each	
			1-9	10-24
M22-PVL-K02-R	Red Push-Pull Button and Red 12-30VAC/VDC LED, 2NC Contact Blocks	10R1856	71.02	64.32
M22-PVL-K12-R	Red Push-Pull Button and Red 12-30VAC/VDC LED, 1NO-2NC Contact Blocks	10R1857	81.09	73.44

➤ CONTINUED ➤

22mm ILLUMINATED PUSHBUTTONS (CONT.)

LED LIGHT UNITS

Mfg. Part No.	Description	Stock No.	Price Each	
			1-9	10-24
M22-LED-W	White, 12-30VAC/VDC	10R1840	27.56	24.96
M22-LED-R	Red, 12-30VAC/VDC	10R1839	27.56	24.96
M22-LED-G	Green, 12-30VAC/VDC	10R1838	27.56	24.96
M22-LED230-W	White, 85-264VAC/VDC, 50/60Hz	10R1852	27.56	24.96
M22-LED230-R	Red, 85-264VAC/VDC, 50/60Hz	10R1851	27.56	24.96
M22-LED230-G	Green, 85-264VAC/VDC, 50/60Hz	10R1850	27.56	24.96

(148563)

22mm PUSHBUTTONS

Just Added

EATON



Pushbutton w/Black Bezel



Pushbutton w/Silver Bezel



Emergency Stop

Features:

- Quick installation
- Mounting base included with operators
- Field convertible from momentary to maintained
- Notched hole mounting with anti-rotation tab

Specifications:

- Contact rating: 4A at 230VAC; 3A at 24VDC
- Rated to max 500VAC and 220VDC
- Heavy duty construction UL NEMA type 4X/13 and IP67 and IP69K on front of panel

FLUSH MOUNTED PUSHBUTTONS

Mfg. Part No.	Actuator Color	Bezel	Action	Stock No.	Price Each	
					1-9	
M22S-D-S	Black	Black	Off-(On)	10R1918	6.36	
M22S-D-R	Red	Black	Off-(On)	10R1917	6.36	
M22S-D-G	Green	Black	Off-(On)	10R1915	6.36	
M22S-D-Y	Yellow	Black	Off-(On)	10R1922	6.36	
M22S-D-B	Blue	Black	Off-(On)	10R1914	6.36	
M22S-D-W	White	Black	Off-(On)	10R1919	6.36	
M22S-D-G-GB2	Green	Black	Off-(On)	10R1916	7.42	
M22S-D-X-SRG	Black, Red Green	Black	Off-(On)	10R1920	7.42	
M22S-D-X-SRG	Black, Red Green	Black	Off-(On)	10R1920	7.42	
M22S-D-X-SWRGYB	Black, White, Red, Green, Yellow, Blue	Black	Off-(On)	10R1921	9.54	
M22-D-S	Black	Silver	Off-(On)	10R1789	7.95	
M22-D-R	Red	Silver	Off-(On)	10R1788	7.95	
M22-D-G	Green	Silver	Off-(On)	10R1787	7.95	
M22-D-X-SRG	Black, Red Green	Silver	Off-(On)	10R1790	9.01	
M22-D-X-SWRGYB	Black, White, Red, Green, Yellow, Blue	Silver	Off-(On)	10R1791	11.13	
M22-DG-X-SRG	Black, Red Green	Silver w/Guard	Off-(On)	10R1799	16.96	
M22-DG-X-SWRGYB	Black, White, Red, Green, Yellow, Blue	Silver w/Guard	Off-(On)	10R1800	19.08	
M22S-DR-S	Black	Black	On-Off	10R1938	9.01	
M22S-DR-R	Red	Black	On-Off	10R1937	9.01	
M22S-DR-G	Green	Black	On-Off	10R1936	9.01	
M22S-DR-X-SWRGYB	Black, White, Red, Green, Yellow, Blue	Black	On-Off	10R1940	12.19	
M22S-DR-X-SRG	Black, Red Green	Black	On-Off	10R1939	10.07	

EXTENDED PUSHBUTTONS

M22S-DH-S	Black	Black	Off-(On)	10R1927	7.42	
M22S-DH-R	Red	Black	Off-(On)	10R1925	7.42	
M22S-DH-G	Green	Black	Off-(On)	10R1924	7.42	
M22S-DH-W	White	Black	Off-(On)	10R1928	7.42	
M22S-DH-R-GB0	Red	Black	Off-(On)	10R1926	8.48	
M22S-DRH-X-SWRGYB	Black, White, Red, Green, Yellow, Blue	Black	On-Off	10R1942	16.43	
M22S-DRH-X-SRG	Black, Red Green	Black	On-Off	10R1941	12.19	
M22-DH-S	Black	Silver	Off-(On)	10R1806	9.01	
M22-DH-R	Red	Silver	Off-(On)	10R1805	9.01	
M22-DH-G	Green	Silver	Off-(On)	10R1804	9.01	
M22-DH-W	White	Silver	Off-(On)	10R1807	9.01	
M22-DRH-X-SWRGYB	Black, White, Red, Green, Yellow, Blue	Silver	On-Off	10R1819	18.02	
M22-DRH-X-SRG	Black, Red Green	Silver	On-Off	10R1818	13.78	

MUSHROOM HEAD PUSHBUTTONS

M22S-DP-S	Black	Black	Off-(On)	10R1934	15.48	
M22S-DP-R	Red	Black	Off-(On)	10R1933	15.48	
M22S-DP-G	Green	Black	Off-(On)	10R1932	15.48	
M22S-DP-Y	Yellow	Black	Off-(On)	10R1935	15.48	
M22-DP-S	Black	Silver	Off-(On)	10R1816	17.07	
M22-DP-R	Red	Silver	Off-(On)	10R1815	17.07	

➤ CONTINUED ➤

SWITCHES – PUSHBUTTON 22MM

22mm PUSHBUTTONS (CONT.)

MUSHROOM HEAD PUSHBUTTONS

Mfg. Part No.	Actuator Color	Bezel	Action	Stock No.	Price Each
					1-9
M22-DP-G	Green	Silver	Off-(On)	10R1814	17.07
M22-DP-Y	Yellow	Silver	Off-(On)	10R1817	17.07
M22-PV	Red	...	Push-Pull	10R1855	43.12
M22-PVT	Red	...	Twist Release	10R1859	38.96
M22-PVS	Red	...	Pushlock Key Reset	10R1858	71.02

CONTACT BLOCKS

Mfg. Part No.	Circuitry	Termination	Stock No.	Price Each
				1-9
M22-K10	1NO	Screw	10R1831	10.60
M22-K01	1NC	Screw	10R1830	10.60

LEGEND PLATES

Mfg. Part No.	Inscription	Stock No.	Price Each
			1-9
M22S-ST-GB0	STOP	10R1948	4.03
M22S-ST-GB1	START	10R1949	4.03
M22S-ST-GB5	OFF	10R1953	4.03
M22S-ST-GB6	ON	10R1954	4.03
M22S-ST-GB7	RUN	10R1955	4.03
M22S-ST-GB8	FAULT	10R1956	4.03
M22S-ST-X52	1	10R1958	4.03
M22S-ST-X53	2	10R1959	4.03
M22-XAK5	For use with E-Stop, 90mm, Yellow	10R1882	6.63
M22-XBK5	For use with E-Stop, 60mm, Yellow	10R1885	6.63

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each
			1-9
M22-XGWK	Guard Ring for Pushbuttons, Black	10R1893	11.93
M22-XGPV	Guard Ring for Pushbuttons, Yellow	10R1892	17.23
M22G-XGPV	Guard Ring for Pushbuttons, Gray	10R1912	17.23
M22-PL-PV	Sealing Shroud for Pushbuttons	10R1854	23.32
M22-IVS	DIN Rail Mounting Adapter for Pushbuttons	10R1823	8.27
M22-MS	Mounting Ring Tool for Pushbuttons	10R1853	8.27
M22-R30	Pushbutton Adapter Ring Set for 30mm Hole	10R1864	8.27
M22-T-D	Protective Diaphragm for Plush Pushbuttons and Indicating Lights	10R1866	4.72
M22-T-DD	Protective Diaphragm for Double Pushbuttons	10R1867	4.72
M22-XKDP	Dust Cover for Pushbutton Contact Blocks	10R1894	1.22
M22-ADC	Dust Cover for maximum of 3 Pushbutton Contact Blocks	10R1768	20.62
M22-ADC4	Dust Cover for maximum of 4 Pushbutton Contact Blocks	10R1769	20.62

(148561)

22mm ILLUMINATED PUSHBUTTONS



Transformer Type



Full Voltage Type

Screw terminal units include lens, lamp, operator, lamp holder, contact block, and transformer or direct voltage adapter. 1NO-1NC contacts. Momentary action. Non-marking extended round lens. Rated NEMA 1, 2, 3, 3R, 4, 4X, 5, 12, 13, IP65. UL listed, CSA certified, CE compliant.

TRANSFORMER TYPES

Mfg. Part No.	Lens Color	Description	Style	Stock No.	Price Each		
					1-4	5-9	10-14
● ALW212611-G	Green	Incandescent	120VAC	74K3640	44.21	42.80	41.39

FULL VOLTAGE TYPES							
● ALW29911-G-24	Green	Incandescent	24V Lamp	74K3641	29.13	28.20	27.27
● ALW29911D-R-120	Red	LED	120V LED	74K3644	32.40	31.36	30.33
● ALW29911D-G-120	Green	LED	120V LED	74K3643	32.40	31.36	30.33
● ALW29911D-A-120	Amber	LED	120V LED	74K3642	32.40	31.36	30.33

LENSES

Mfg. Part No.	Lens Color	Description	Shape	Stock No.	Price Each	
					1-4	5-9
● ALW2LU-A	Amber	Incandescent	Round	74K3639	1.58	1.53
● ALW2LU-G	Green	Incandescent	Round	84C9081	1.58	1.53
● ALW2LU-R	Red	Incandescent	Round	74C0743	1.58	1.53

(3430)

LED LAMPS

Contains a current-limiting resistor and a protection diode. Available in 24V and 120V versions in a range of colors. Also available in yellow and blue; go online or call.



Mfg. Part No.	Voltage (V)	Color	Stock No.	Price Each			
				1-14	15-24	25-49	50-99
● LSTD-6R	6	Red	74K3876	4.75	4.18	3.87	3.87
● LSTD-6G	6	Green	84C6114	6.29	5.54	5.12	4.57
● LSTD-2A	24	Amber	74K3870	7.27	6.40	5.92	5.28
● LSTD-2G	24	Green	74K3871	7.27	6.40	5.92	5.28
● LSTD-2R	24	Red	74K3872	7.27	6.40	5.92	5.28
● LSTD-2W	24	White	74K3874	7.27	6.40	5.92	5.28
● LSTD-H2A	120	Amber	74K3866	10.90	9.60	8.88	7.92
● LSTD-H2G	120	Green	74K3867	10.90	9.60	8.88	7.92
● LSTD-H2R	120	Red	74K3868	10.90	9.60	8.88	7.92
● LSTD-H2W	120	White	74K3869	10.90	9.60	8.88	7.92

(3604)

22mm SELECTOR SWITCHES

Screw terminal units include insert, handle, operator, contact blocks. Black knob. Rated NEMA 1, 2, 3, 3R, 4, 4X, 5, 12, 13, IP65. Keylock only NEMA 1, 2, 3, 5, 13. UL listed, CSA certified.



KNOB ACTUATOR

Mfg. Part No.	Positions	Action	Circuitry	Stock No.	Price Each			
					1-14	15-24	25-49	50-99
● ASW220	2	On-(On)	SPDT	74K3680	21.62	19.39	18.37	17.26
● ASW320	3	On-(On)	DPDT	74K3681	21.62	19.39	18.37	17.26
● ASW211	2	On-(On)	DPST-1NO/1NC	74K3679	21.62	19.39	18.37	17.26
● ASW210	2	On-(On)	SPST-NO	74K3678	15.93	14.28	13.53	12.71
● ASW3320	3	...	DPDT	74K3682	23.52	21.09	19.98	18.77

LEVER ACTUATOR

● ASW2L11	2	On-(On)	DPST-1NO/1NC	95B0329	21.62	19.39	18.37	17.26
● ASW2L20	2	On-(On)	SPDT	93B6839	21.62	19.39	18.37	17.26

KEYLOCK ACTUATOR

● ASW2K10	2	On-(On)	SPDT	15C5572	38.70	34.70	32.89	30.89
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ACCESSORIES

● ASWHY-B	Selector Knob, Black	95B0449	1.49	1.34	1.27	1.19
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(3431)

22mm ILLUMINATED PUSHBUTTON SWITCHES

- LED lamp, full voltage, rated 24VAC/VDC
- Momentary action
- SPST-NO, SPST-NC contacts
- IP65 and NEMA 4/4X/13

Operating temperature range: -25°C to +50°C. Mechanical life: 5,000,000 operations. Meets IEC, UL listed, CSA certified, CE compliant, and TUV approved. May be mounted in Idec's one-to-five hole enclosures.



Extended w/ Full Shroud



Mushroom Head

Mfg. Part No.	Style	Lens Color	Stock No.	Price Each		
				Each	2-5	6-10
● HW1L-M1F11QD-G-24	Flush Head	Green	74K3768	32.68	31.35	29.15
● HW1L-M1F11QD-A-24	Flush Head	Amber	74K3767	32.68	31.35	29.15
● HW1L-M1F11QD-R-24	Flush Head	Red	74K3769	32.68	31.35	29.15
● HW1L-M2F11QD-G-24	Extended Head	Green	74K3770	32.68	31.35	29.15
● HW1L-M2F11QD-R-24	Extended Head	Red	74K3771	32.68	31.35	29.15
● HW1L-M4F11QD-G-24	Mushroom Head	Green	74K3772	33.19	31.85	29.60
● HW1L-M4F11QD-R-24	Mushroom Head	Red	76K6256	33.19	31.85	29.60

(13247)

SWITCHES – PUSHBUTTON 22MM

22mm NON-ILLUMINATED
PUSHBUTTON SWITCHES

Flush Head Plastic Bezel

- Plastic or nickel-plated aluminum bezels
- Momentary action
- Slow-break SPST-NO or SPST-NO - SPST-NC contacts



Extended Head Metal Bezel

- Meet IEC IP65 and NEMA 4/4x/13
- Available in red, black, green, blue, white and yellow

Rated 600VAC/DC, 10A. Operating temperature range: -25°C to +50°C. Mechanical life: 5,000,000 operations. May be mounted in Idec's one-to-five hole enclosures. Mushroom head also available; go online or call.

Mfg. Part No.	Head Style	Circuitry	Color	Bezel	Stock No.	Price Each
● HW1B-M1F10-B	Flush	SPST-NO	Black	Plastic	74K3746	11.25
● HW1B-M1F10-S	Flush	SPST-NO	Blue	Plastic	74K3749	11.25
● HW1B-M1F10-G	Flush	SPST-NO	Green	Plastic	74K3747	11.25
● HW1B-M1F10-R	Flush	SPST-NO	Red	Plastic	74K3748	11.25
● HW1B-M1F10-Y	Flush	SPST-NO	Yellow	Plastic	74K3750	11.25
● HW1B-M1F11-B	Flush	DPST-1NO/1NC	Black	Plastic	74K3751	17.05
● HW1B-M1F11-G	Flush	DPST-1NO/1NC	Green	Plastic	74K3752	17.05
● HW1B-M1F11-R	Flush	DPST-1NO/1NC	Red	Plastic	74K3753	17.05
● HW4B-M1F10-R	Flush	SPST-NO	Red	Metal	74K3783	12.44
● HW4B-M1F11-R	Flush	DPST-1NO/1NC	Red	Metal	74K3784	18.26
● HW1B-M2F11-R	Extended	SPST-NO	Red	Plastic	74K3754	11.25
● HW1B-M2F11-R	Extended	DPST-1NO/1NC	Red	Plastic	78K5982	17.05
● HW2B-M2F11-R	Extended	DPST-1NO/1NC	Red	Plastic	91F5586	19.83
● HW1B-M4F11-R	Mushroom	DPST-1NO/1NC	Red	Plastic	91F5588	23.14

(13028)

22mm
SELECTOR
SWITCHES

Knob Operated



Key Operated

HW series selector switches are rated 600VAC/DC, 10A. Mechanical life: 500,000 operations. All units listed are maintained action. Metal bezels are nickel-plated aluminum. Meets IEC IP65 and NEMA 4/4x/13 ratings. May be mounted in Idec's one-to-five hole enclosures.

Mfg. Part No.	Circuitry	Pos.	Bezel	Operation	Stock No.	Price Each
						1-9
● HW1K-2AF10	SPST-NO	2	Plastic	Key	74K3764	33.22
● HW1K-2AF20	DPST-2NO	2	Plastic	Key	74K3765	38.81
● HW1K-3AF20	DPST-2NO	3	Plastic	Key	74K3766	38.81
● HW1S-2TF20	DPST-2NO	2	Plastic	Knob	74K3782	19.93
● HW1S-3TF20	DPST-2NO	3	Plastic	Knob	78K5983	19.93
● HW4K-2AF20	DPST-2NO	2	Metal	Key	74K3789	39.90
● HW4K-3AF20	DPST-2NO	3	Metal	Key	74K3790	39.90
● HW4S-2TF20	DPST-2NO	2	Metal	Knob	74K3799	21.02
● HW4S-3TF20	DPST-2NO	3	Metal	Knob	74K3800	21.02

(13237)

Current Order Status & History

Check the status of your current order or access past orders from our website under MY ACCOUNT eSuite. Log in or register today.

(148881)

22mm
PUSHBUTTON
SWITCHES

Flush



Screw terminal units include button, operator, contact blocks. Mount 0.875" (22.23) hole. Momentary action. Caps included (R=Red, B=Black, G=Green). UL listed, CSA certified, CE compliant. NEMA 1, 2, 3, 4, 4X, 5, 12, 13.

Mfg. Part No.	Style	Circuitry	Color	Stock No.	Price Each			
					1-14	15-24	25-49	50-99
● ABW110-BGR	Flush	SPST-NO	...	74K3606	12.58	11.21	10.59	10.08
ABW110-R	Flush	SPST-NO	Red	09C9432	12.59	11.22	10.59	10.08
● ABW101-B,R,G	Flush	SPST-NC	...	74K3605	12.59	11.22	10.59	10.08
● ABW111-B,R,G	Flush	DPST-1NO/1NC	...	74K3607	18.49	16.49	15.56	14.81
● ABW210-B,G,R	Extended	SPST-NO	...	74K3609	12.59	11.22	10.59	10.08
● ABW201-B,G,R	Extended	SPST-NC	...	74K3608	12.59	11.22	10.59	10.08
● ABW211-B,G,R	Extended	DPST-1NO/1NC	...	74K3610	18.49	16.49	15.56	14.81
ABW310-G	Mushroom	SPST-NO	Green	14C8221	18.49	16.49	15.56	14.81
● ABW410-R	Mushroom	SPST-NO	Red	74K3613	18.49	16.49	15.56	14.81
● ABW410-B	Mushroom	SPST-NO	Black	96F3635	18.49	16.49	15.56	14.81
● ABW410-G	Mushroom	SPST-NO	Green	74K3612	18.49	16.49	15.56	14.81
● ABW401-R	Mushroom	SPST-NC	Red	74K3611	18.49	16.49	15.56	14.81
● ABW411-R	Mushroom	DPST-1NO/1NC	Red	74K3614	24.40	21.75	20.54	19.54
● ABW411-G	Mushroom	DPST-1NO/1NC	Green	96F3640	24.40	21.75	20.54	19.54

(3427)

16mm AND 22mm
SWITCH ACCESSORIES

Padlock Cover



Emergency Stop Name Plate



KG1

KG2

KG3

KG4

XA9Z-KG1

Individual buttons, spring-up terminal contacts and 22mm to 30mm adapter mfg. part no. HW9Z-A30 also available; go online or call.

Mfg. Part No.	Description	Stock No.	Price Each
			1-24
● HAAV4-27	16mm Yellow Emergency Stop Nameplate, 60mm Diameter	43J1425	8.82
● HW9Z-KL1	Padlock Cover For 22mm Switches	74K3803	13.23
● HWA-27	22mm Yellow Emergency Stop Nameplate, 60mm Diameter	74K3745	4.41
● HWA-5-27	22mm Yellow Emergency Stop Nameplate, 80mm Diameter	43J1426	4.41
● HW-C01	Exposed Screw Terminal Contacts, 1NC	74K3741	5.96
● HW-C10	Exposed Screw Terminal Contacts, 1NO	74K3742	5.96
● HW-CB2C	Contact Block Mounting Adapter w/Safety Level Lock for Mounting of Contact Blocks to Operator (First Pair Only)	74K3740	1.11
● HW-F01	Standard Fingersafe Contacts (IP20), 1NC	74K3743	5.96
● HW-F10	Standard Fingersafe Contacts (IP20), 1NO	74K3744	5.96
● HW9Z-KG3	E-Stop Shroud Yellow for 22mm XW & HW E-stops with 29mm & 40mm mushroom heads	34M2040	17.64
● HW9Z-KG4	E-Stop Shroud Yellow for 22mm XW & HW E-stops with 29mm & 40mm mushroom heads	34M2041	17.64
● XA9Z-KG1	E-Stop Shroud Yellow for 16mm XA E-stops with 29mm & 40mm mushroom heads	34M2077	21.57
● HW9Z-A30	22mm to 30mm Adaptor for round HW control unit	91F5658	4.41

▶ CONTINUED ▶

SWITCHES – PUSHBUTTON 22MM

16mm AND 22mm SWITCH ACCESSORIES (CONT.)

Mfg. Part No.	Description	Stock No.	Price Each
		1-24	
● HW9Z-KG1	E-Stop Shroud Yellow for 22mm XW & HW E-stops with 29mm & 40mm mushroom heads	32M7404	15.43
● HW9Z-KG2	E-Stop Shroud Yellow for 22mm XW & HW E-stops with 29mm & 40mm mushroom heads	20M7930	15.43
● HW9Z-SKP	Replacement Keys for HW Series Switches	28C7212	1.47

(15326)

ACTIVE METAL™ PANEL MOUNT SWITCHES



Stainless Steel

Aluminum Anodized

Features:

- IP68/NEMA 4X impervious to moisture, including direct exposure to pressure water
- Vandal proof and explosion proof
- Withstands shock and vibration-even major impact from a hammer
- Can be operated with gloved or protected hands
- No moving parts: Virtually unlimited life span
- Unaffected by electromagnetic radiation up to 25V ESD
- Body material: 6061 anodized aluminum or 316 stainless steel
- (On) = Momentary action; On = Maintained action

Specifications:

- Each switch is threaded and supplied with O-ring and mounting nut for installation
- 12" lead I/O connection
- Medium sensitivity level: Designed for indoor/outdoor use with or without a gloved hand; impervious to false activation caused by water
- Open collector: Open or closed relative to input voltage supply's ground
- "Normally low" function means an unactivated condition output at 0V relative to input voltage supply's ground

19MM SWITCHES NORMALLY LOW - DIGITAL OUTPUT

Mfg. Part No.	Supply Voltage (VDC)	Switch Function	Housing Material	Stock No.	Price Each
					1-9
● T01-011901-001-NL-M-2	5	(On)	Stainless Steel	50M7433	90.92
● T01-021901-002-NL-M-2	5	(On)	Aluminum - Black	50M7443	79.04
● T01-021901-001-NL-A-2	5	(On)	Aluminum - Clear	50M7442	79.04
● T01-021901-004-NL-M-2	5	(On)	Aluminum - Green	50M7445	79.04
● T01-021901-003-NL-M-2	5	(On)	Aluminum - Red	50M7444	79.04

19MM SWITCHES NORMALLY OPEN - OPEN COLLECTOR OUTPUT

● T01-011902-001-NO-M-2	5	(On)	Stainless Steel	50M7434	91.25
● T01-021902-002-NO-M-2	5	(On)	Aluminum - Black	50M7447	79.38
● T01-021902-001-NO-M-2	5	(On)	Aluminum - Clear	50M7446	79.38
● T01-021902-004-NO-M-2	5	(On)	Aluminum - Green	50M7449	79.38
● T01-021902-003-NO-M-2	5	(On)	Aluminum - Red	50M7448	79.38
● T01-011903-001-NO-M-2	10-24	(On)	Stainless Steel	50M7435	94.03
● T01-021903-002-NO-M-2	10-24	(On)	Aluminum - Black	50M7451	82.15
● T01-021903-001-NO-M-2	10-24	(On)	Aluminum - Clear	50M7450	82.15
● T01-021903-004-NO-M-2	10-24	(On)	Aluminum - Green	50M7453	82.15
● T01-021903-003-NO-M-2	10-24	(On)	Aluminum - Red	50M7452	82.15

22MM SWITCHES NORMALLY LOW - DIGITAL OUTPUT

● T01-012201-001-NL-M-2	5	(On)	Stainless Steel	50M7436	93.85
● T01-022201-002-NL-M-2	5	(On)	Aluminum - Black	50M7455	82.15
● T01-022201-001-NL-M-2	5	(On)	Aluminum - Clear	50M7454	82.15
● T01-022201-004-NL-M-2	5	(On)	Aluminum - Green	50M7457	82.15
● T01-022201-003-NL-M-2	5	(On)	Aluminum - Red	50M7456	82.15

22MM SWITCHES NORMALLY OPEN - OPEN COLLECTOR OUTPUT

● T01-012202-001-NO-M-2	5	(On)	Stainless Steel	50M7437	94.15
● T01-022202-002-NO-M-2	5	(On)	Aluminum - Black	50M7459	82.45
● T01-022202-001-NO-M-2	5	(On)	Aluminum - Clear	50M7458	82.45
● T01-022202-004-NO-M-2	5	(On)	Aluminum - Green	50M7461	82.45
● T01-022202-003-NO-M-2	5	(On)	Aluminum - Red	50M7460	82.45
● T01-012203-001-NO-M-2	10-24	(On)	Stainless Steel	50M7438	96.99
● T01-022203-002-NO-M-2	10-24	(On)	Aluminum - Black	50M7463	85.29
● T01-022203-001-NO-M-2	10-24	(On)	Aluminum - Clear	50M7462	85.29
● T01-022203-004-NO-M-2	10-24	(On)	Aluminum - Green	50M7465	85.29
● T01-022203-003-NO-M-2	10-24	(On)	Aluminum - Red	50M7464	85.29

30MM SWITCHES NORMALLY LOW - DIGITAL OUTPUT

● T01-013001-001-NL-M-2	5	(On)	Stainless Steel	50M7439	114.36
● T01-023001-002-NL-M-2	5	(On)	Aluminum - Black	50M7467	94.25
● T01-023001-001-NL-M-2	5	(On)	Aluminum - Clear	50M7466	94.25

➤ CONTINUED ➤

ACTIVE METAL™ PANEL MOUNT SWITCHES (CONT.)

30MM SWITCHES NORMALLY LOW - DIGITAL OUTPUT

Mfg. Part No.	Supply Voltage (VDC)	Switch Function	Housing Material	Stock No.	Price Each
					1-9
● T01-023001-004-NL-M-2	5	(On)	Aluminum - Green	50M7469	94.25
● T01-023001-003-NL-M-2	5	(On)	Aluminum - Red	50M7468	94.25

30MM SWITCHES NORMALLY OPEN - OPEN COLLECTOR OUTPUT

● T01-013002-001-NO-M-2	5	(On)	Stainless Steel	50M7440	114.66
● T01-023002-002-NO-M-2	5	(On)	Aluminum - Black	50M7471	94.54
● T01-023002-001-NO-M-2	5	(On)	Aluminum - Clear	50M7470	94.54
● T01-023002-004-NO-M-2	5	(On)	Aluminum - Green	50M7473	94.54
● T01-023002-003-NO-M-2	5	(On)	Aluminum - Red	50M7472	94.54
● T01-013003-001-NO-M-2	10-24	(On)	Stainless Steel	50M7441	117.49
● T01-023003-002-NO-M-2	10-24	(On)	Aluminum - Black	50M7475	97.38
● T01-023003-001-NO-M-2	10-24	(On)	Aluminum - Clear	50M7474	97.38
● T01-023003-004-NO-M-2	10-24	(On)	Aluminum - Green	50M7477	97.38
● T01-023003-003-NO-M-2	10-24	(On)	Aluminum - Red	50M7476	97.38

(95252)

ZB4 SERIES 22mm PUSHBUTTON COMPONENTS – NON-ILLUMINATED



Quick assembly components easily combine to provide custom switches to meet your specific requirements. **Complete Pushbutton Assembly = Operator + Mounting Base + Contact Block.** Operator locks into mounting collar, securing the operator in the enclosure. Screw clamp terminal contact blocks clip-on, up to 9 circuits. Operators are self-grounding, tamperproof, and antirotating. NEMA 4X, 13 IP65. Contact blocks are rated A600/Q600 (10A continuous). On = Maintained action; (On) = Momentary action. UL listed, CSA certified, CE compliant.

FLUSH HEAD OPERATORS

Mfg. Part No.	Color/Marked	Stock No.	Price Each	2-4
ZB4BA1	White	17C7066	12.53	11.94
ZB4BA2	Black	17C7067	12.53	11.94
ZB4BA3	Green	17C7068	12.53	11.94
ZB4BA4	Red	17C7071	12.53	11.94
ZB4BA5	White	17C7072	12.53	11.94
ZB4BA6	Blue	17C7073	12.53	11.94
ZB4BA331	Green/I	17C7069	17.92	17.08
ZB4BA333	Green/Start	17C7070	17.92	17.08

EXTENDED HEAD OPERATORS

ZB4BL1	White	17C7078	12.53	11.94
ZB4BL3	Green	17C7080	12.53	11.94
ZB4BL4	Red	17C7081	12.53	11.94
ZB4BL5	White	17C7084	12.53	11.94
ZB4BL6	Blue	17C7085	12.53	11.94
ZB4BL432	Red/O	17C7082	17.92	17.08
ZB4BL434	Red/Stop	17C7083	17.92	17.08

BOOTED HEAD OPERATORS

ZB4BP1	White	17C7087	24.84	23.67
ZB4BP2	Black	17C7088	24.84	23.67
ZB4BP3	Green	17C7089	24.84	23.67
ZB4BP4	Red	17C7090	24.84	23.67
ZB4BP5	White	17C7091	24.84	23.67
ZB4BP6	Blue	17C7092	24.84	23.67

PILOT LIGHT HEAD

● ZB5AV033	Green	17C8470	7.33	6.99
● ZB5AV043	Red	17C8472	7.33	6.99

PUSHBUTTON LIGHT MODULES

ZBVB1	White	17C8353	50.06	47.71
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➤ CONTINUED ➤

SWITCHES – PUSHBUTTON 22MM • SWITCHES – PUSHBUTTON 30MM

ZB4 SERIES 22mm PUSHBUTTON COMPONENTS – NON-ILLUMINATED (CONT.)

PUSHBUTTON SWITCH OPERATORS

Mfg. Part No.	Function	Color/Marked	Stock No.	Price Each	
				Each	2-4
● ZB5AW343	(On)	Red	17C8486	17.92	17.08
● ZB5AH043	Push On-Push Off	Red	80C8399	23.88	22.76

SECTOR SWITCH OPERATORS

Mfg. Part No.	No. of Positions	Color/Marked	Stock No.	Price Each	
				Each	2-4
● ZB5AD2	2	Black	17C8457	23.11	22.03
● ZB5AD3	3	Black	17C8458	23.11	22.03
● ZB5AK1333	3	Green	08C3672	33.70	32.12
● ZB5AK1343	3	Red	80C8424	33.70	32.12
● ZB5AK1333	3	Green	08C3672	33.70	32.12

E-STOPS/MUSHROOM OPERATORS

Mfg. Part No.	Description	Stock No.	Price Each	
			Each	2-4
ZB4BS14	40mm Metal, Red E-Stop, Key/Release	17C7093	107.82	102.76
ZB4BS24	60mm Metal, Red E-Stop, Key/Release	17C7094	107.82	102.76
ZB4BS54	40mm Metal, Red E-Stop, Turn/Release	17C7095	75.11	71.58
ZB4BS64	60mm Metal, Red E-Stop, Turn/Release	17C7096	86.65	82.58
ZB4BT4	40mm Metal, Red E-Stop, Push/Pull	17C7097	38.90	37.07

DOUBLE HEAD OPERATORS

ZB4BL9334	2-Head, Green/Red	17C7086	35.81	34.13
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MOUNTING BASES

ZB4BZ101	Base with 1 N.O. Block	17C7144	21.18	20.18
ZB4BZ102	Base with 1 N.C. Block	17C7145	21.18	20.18
ZB4BZ103	Base with 2 N.O. Block	12C2281	36.79	35.06
ZB4BZ105	Base with 1 N.O. and 1 N.C. Block	12C2264	36.79	35.06

CONTACT BLOCKS

ZBE101	1 N.O. Block	17C7051	15.79	15.05
ZBE102	1 N.C. Block	17C7052	15.79	15.05
ZBE203	2 N.O. Blocks, Dual-Circuit	16C1756	31.98	30.47
ZBE204	2 N.C. Blocks, Dual-Circuit	17C7053	31.98	30.47
ZBE205	1 N.O. and 1 N.C. Block, Dual-Circuit	17C7054	31.98	30.47

ACCESSORIES

Mfg. Part No.	Description	For Use With	Stock No.	Price Each	
				Each	2-4
● ZBZ1604	Metal Guard	40mm Emergency stop and mushroom head pushbuttons	17C8378	103.99	99.11

(59671)

ZB4 SERIES 22mm PUSHBUTTON COMPONENTS – ILLUMINATED



Extended Head



Flush Head



Light Module

Quick installation. Screw-clamp terminals. Operator locks into mounting collar, securing the operator in the enclosure. Protected LED reduces the effects of lightning, inductive spikes generated by coil de-energization and reverse polarity. Complete pushbutton assembly: operator and mounting base and contact blocks. Contact blocks clip-on, up to 9 circuits. Self-grounding, tamperproof, and anti-rotating. 100,000 hours average LED life. Contacts rated 6A @ 120VAC, 600VAC/DC Max. UL listed, CSA certified, CE compliant.

FLUSH HEAD OPERATOR

Mfg. Part No.	Color	Stock No.	Price Each	
			Each	2-4
ZB4BW313	White	17C7138	16.24	15.39
ZB4BW333	Green	17C7139	16.24	15.39
ZB4BW343	Red	17C7140	16.24	15.39
ZB4BW353	Yellow	17C7141	16.24	15.39
ZB4BW363	Blue	17C7142	16.24	15.39

EXTENDED HEAD OPERATOR

ZB4BW113	White	17C7133	11.35	10.76
ZB4BW133	Green	17C7134	11.35	10.76
ZB4BW143	Red	17C7135	11.35	10.76
ZB4BW153	Yellow	17C7136	11.35	10.76
ZB4BW163	Blue	17C7137	11.35	10.76

24V LED LIGHT MODULES

Mfg. Part No.	Contacts	Color	Stock No.	Price Each	
				Each	2-4
ZB4BW0B11	1 N.O.	White	17C7113	63.69	60.39
ZB4BW0B12	1 N.C.	White	17C7114	63.69	60.39

➤ CONTINUED ➤

ZB4 SERIES 22mm PUSHBUTTON COMPONENTS – ILLUMINATED (CONT.)

Mfg. Part No.	Contacts	Color	Stock No.	Price Each	
				Each	2-4
ZB4BW0B31	1 N.O.	Green	17C7115	63.69	60.39
ZB4BW0B32	1 N.C.	Green	17C7116	63.69	60.39
ZB4BW0B41	1 N.O.	Red	17C7117	63.69	60.39
ZB4BW0B51	1 N.O.	Yellow	17C7119	63.69	60.39
ZB4BW0B52	1 N.C.	Yellow	17C7120	63.69	60.39
ZB4BW0B61	1 N.O.	Blue	17C7121	63.69	60.39
ZB4BW0B62	1 N.C.	Blue	17C7122	63.69	60.39

120VAC LED LIGHT MODULES

ZB4BW0G11	1 N.O.	White	17C7123	63.69	60.39
ZB4BW0G12	1 N.C.	White	17C7124	63.69	60.39
ZB4BW0G31	1 N.O.	Green	17C7125	63.69	60.39
ZB4BW0G32	1 N.C.	Green	17C7126	63.69	60.39
ZB4BW0G41	1 N.O.	Red	17C7127	63.69	60.39
ZB4BW0G42	1 N.C.	Red	17C7128	63.69	60.39
ZB4BW0G51	1 N.O.	Yellow	17C7129	63.69	60.39
ZB4BW0G52	1 N.C.	Yellow	17C7130	63.69	60.39
ZB4BW0G61	1 N.O.	Blue	17C7131	63.69	60.39
ZB4BW0G62	1 N.C.	Blue	17C7132	63.69	60.39

(59674)

704 SERIES 30MM FLUSH PANEL MOUNT SWITCHES



704 series mount in a standard 30.5mm hole. These updated flush mount switches meet NEMA enclosure types 4, 13, and meet IEC enclosure IP65 classification. Compatible with T-3/4 bayonet lamps, neon lamps, or LEDs. NOTE: The last numeral in the mfg. part no. indicates lens color: 2 = red, 4 = yellow. UL recognized, CSA certified, VDE approved, SEV approved, and ISO9001 certified. Order 04 series contact blocks separately on page 1746.



Rotary Lever



Pushbutton

PUSHBUTTONS

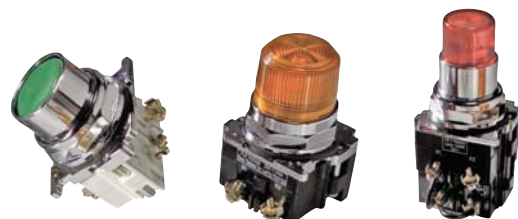
Mfg. Part No.	Description	Stock No.	Price Each	
			1-24	25-249
● 704-01-1892NX	Momentary Lighted	92F7661	32.21	27.90
● 704-01-1894NX	Momentary Lighted	92F7663	32.94	28.54

TWO-POSITION ROTARY LEVERS

Mfg. Part No.	Description	Stock No.	Price Each	
			1-24	25+
● 704-41000NX	Round SEL Maintained	92F7687	31.22	26.80

(5053)

30MM PUSHBUTTONS 10250T SERIES



- Heavy-duty zinc die cast construction
 - Enclosed silver contacts with reliability nibs
 - Reliability nibs improve contact reliability even under dry circuit and fine dust conditions
 - Drainage holes prevent buildup of liquid inside the operator which can prevent operation in freezing environments
 - Grounding nibs bite through paint and other coatings to secure grounding
- The 10250T 30.5 mm pushbutton line features a zinc die cast construction with chrome-plated housing and mounting nut. The same durable construction is also available with the corrosive resistant E34 line of pushbuttons.

NON-ILLUMINATED MOMENTARY PUSHBUTTON OPERATORS

Mfg. Part No.	Color	Stock No.	Price Each
			1-14
FLUSH BUTTON (CHOOSE CONTACT BLOCK BELOW)			
10250T101	Black	<u>44K1511</u>	28.30
10250T103	Green	<u>44K1540</u>	28.30
EXTENDED BUTTON (CHOOSE CONTACT BLOCK BELOW)			
10250T112	Red	<u>44K1608</u>	28.30
MUSHROOM BUTTON (CHOOSE CONTACT BLOCK BELOW)			
10250T122	Red	<u>44K1624</u>	59.94

➤ CONTINUED ➤

SWITCHES – PUSHBUTTON 30MM

30MM PUSHBUTTONS 10250T SERIES (CONT.)

JUMBO MUSHROOM BUTTON (CHOOSE CONTACT BLOCK BELOW)

Mfg. Part No.	Color	Stock No.	Price Each
			1-14
10250T172	Red	44K2130	71.36
10250T17213	Red (EMERG. STOP)	44K2136	78.50

ILLUMINATED MOMENTARY PUSHBUTTON (CHOOSE COLOR LENS BELOW)

Mfg. Part No.	Light Unit Type	Type	Voltage	Stock No.	Price Each
					1-14
10250T411	Incandescent	Transformer AC Only	120	44K3175	104.66

PRES-TO-TEST ILLUM. PUSHBUTTON (CHOOSE COLOR LENS BELOW)

10250T221N	Incandescent	Transformer AC Only	120	44K2611	137.96
10250T231N	Incandescent	Resistor AC/DC	120	44K2668	117.03

INDICATING LIGHT OPERATORS (CHOOSE COLOR LENS BELOW)

10250T201N	Incandescent	Resistor AC/DC	120	44K2494	85.16
10250T181N	Incandescent	Transformer; AC Only	120	44K2176	104.66

INDICATING LIGHTS - LED

Mfg. Part No.	Type	Voltage	Color	Stock No.	Price Each
					1-14
10250T197LRP2A	Full Voltage	120V AC	Red	44K2396	114.17

INDICATING LIGHTS - INCANDESCENT

10250T201NC1N	Resistor	120V AC/DC	Red	44K2495	91.82
10250T201NC2N	Resistor	120V AC/DC	Green	44K2506	91.82
10250T206NC1N	Full Voltage	24V AC/DC	Red	41K1045	91.82
10250T206NC2N	Full Voltage	24V AC/DC	Green	44K2551	91.82

ILLUMINATED MOMENTARY PUSHBUTTON - LED

10250T411LRD06-53	Transformer	120V AC	Red	44K3238	145.57
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2-POSITION ILLUMINATED MAINTAINED PUSH-PULL SWITCHES - LED

Mfg. Part No.	Contact Type	Type	Voltage	Color	Stock No.	Price Each
						1-14
10250T597LRD2A-1X	1NO/1NC	Full Voltage	120V AC	Red	44K3805	172.21

2-POSITION NON-ILLUMINATED MAINTAINED PUSH-PULL SWITCHES

Mfg. Part No.	Contact Type	Button Type	Color	Stock No.	Price Break 1
					1-14
10250T5862-1X	1NO/1NC	40 mm	Red	44K3573	91.82
10250T5J63-1X	1NO/1NC	65 mm Engrave E-STOP	Red/Engrave E-STOP	44K3612	134.15

NON-ILLUMINATED MOMENTARY PUSHBUTTON

10250T23B	SPST-NO	Flush	Black	44K2654	43.77
10250T25R	SPST-NC	Extended	Red	44K2749	43.77
10250T29	SPST-NC	Engrave E-STOP	Red/Engrave E-STOP	44K2792	97.05

SWITCH ACCESSORIES

CONTACTS BLOCK - WITH SCREW TERMINALS

Mfg. Part No.	Circuit	Stock No.	Price Each
			1-14
10250T1	1NO/1NC	44K1497	31.16
10250T2	DPST-2NO	44K2440	31.16
10250T3	DPST-2NC	44K2854	31.16
10250T51	SPST-NC	44K3626	15.71
10250T53	SPST-NO	44K3639	15.71

PLASTIC LENSES

Mfg. Part No.	Color/For Use With	Stock No.	Price Each
			1-14
10250TC1N	Red/Indicating Lights	44K1098	7.47
10250TC19N	Amber/Indicating Lights	44K1113	7.47
10250TC21	Red/Illuminated Pushbutton/PresTest	44K1115	7.47
10250TC22	Green/Illuminated Pushbutton/PresTest	44K1116	7.47
10250TC2N	Green/Indicating Lights	44K1114	7.47
10250TC43	Amber/Illuminated Pushbutton/PresTest	44K1129	7.47
10250TC6N	White/Indicating Lights	44K1142	7.47

GLASS LENSES

10250TC12N	White/Indicating Lights	44K1101	13.32
10250TC13N	Red/Illuminated Pushbutton/PresTest	44K1102	13.32
10250TC14N	Green/Illuminated Pushbutton/PresTest	44K1104	13.32
10250TC15N	Amber/Illuminated Pushbutton/PresTest	44K1106	13.32
10250TC7N	Red/Indicating Lights	44K1151	13.32
10250TC8N	Green/Indicating Lights	44K1152	13.32
10250TC9N	Amber/Indicating Lights	44K1153	13.32

➔ CONTINUED ➔

30MM PUSHBUTTONS 10250T SERIES (CONT.)

LEGEND PLATES

10250TM24	OFF-Round Legend Plate	44K1260	3.57
10250TM25	ON-Round Legend Plate	44K1261	3.57
10250TM31	RUN-Round Legend Plate	44K1267	3.57
10250TM33	START-Round Legend Plate	44K1269	3.57
10250TM34	STOP-Round Legend Plate	44K1270	3.57
10250TM36	BLANK-Round Legend Plate	44K1272	3.57
10250TM80	POWER ON-Round Legend Plate	44K1300	3.57
10252TS24	OFF-Square Legend Plate	19P7871	3.38
10250TS25	ON-Square Legend Plate	44K1438	3.57
10250TS31	RUN-Square Legend Plate	44K1444	3.57
10250TS33	START-Square Legend Plate	44K1446	3.57
10250TS34	STOP-Square Legend Plate	44K1447	3.57
10250TS36	BLANK-Square Legend Plate	44K1449	3.57
10250TS80	POWER ON-Square Legend Plate	44K1482	3.57

ENCLOSURES

10250TN11	1-Hole 2-Contact Block Depth Enclosure	44K1321	102.76
10250TN12	2-Hole 2-Contact Block Depth Enclosure	44K1322	116.07
10250TN13	3-Hole 2-Contact Block Depth Enclosure	44K1323	137.01
10250TN14	4-Hole 2-Contact Block Depth Enclosure	44K1324	168.40

(136333)

30mm PUSHBUTTON SWITCHES



Standard size screw terminal units include button, operator, contact blocks. Mount 1.20" (30.00) hole. Rated 600V/10A. Momentary action. Rated NEMA 1, 2, 3, 3R, 4, 4X, 5, 12, 13; IP65. UL listed, CSA certified and CE compliant.



Mfg. Part No.	Style	Circuitry	Color	Stock No.	Price Each
					1-9 10-24 25-49
● ABD110N-B,G,R	Flush	SPST-NO	Black,Green,Red	74K3599	15.14 14.14 13.73
● ABD310N-G	1.58" Mushroom	SPST-NO	Green	74K3601	25.95 24.24 23.53
● ABD310N-Y	1.58" Mushroom	SPST-NO	Yellow	75K6446	25.95 24.24 23.53
● ABD301N-R	1.58" Mushroom	SPST-NC	Red	74K3600	25.95 24.24 23.53
● ABD410N-R	2.56" Mushroom	SPST-NO	Red	74K3604	29.55 27.61 26.79
● ABD410N-G	2.56" Mushroom	SPST-NO	Green	74K3603	29.55 27.61 26.79
● ABD401N-R	2.56" Mushroom	SPST-NC	Red	96F3774	29.55 27.61 26.79

ACCESSORIES

Mfg. Part No.	Description	Color	Stock No.	Price Each
				1-9 10-24 25-49
● ABD18N-B	Flush Mount Button	Black	30B5099	0.17 0.16 0.15
● ABD48N-Y	2.56" Jumbo Mushroom Button	Yellow	74K3602	9.31 8.70 8.44

(3438)

30mm SPECIAL FUNCTION SWITCHES



Screw terminal units include button, operator, contact blocks. Rated NEMA 1, 2, 3, 4, 4X, 5, 12, 13. Color: red. UL listed, CSA certified, and CE compliant.



Mfg. Part No.	Description	Circuitry	Stock No.	Price Each
				1-14 15-24 25-49
● AVD310N-R	Pushlock Turn Reset	SPST-NO	74K4800	45.55 40.47 38.35
● AVD301N-R	Pushlock Turn Reset	SPST-NC	74K3686	45.55 40.47 38.35
● AVD311N-R	Pushlock Turn Reset	DPST-1NO/1NC	74K3688	51.94 46.14 43.73
● AVD301N-R	Push-Pull	SPST-NC	74K3696	43.43 38.58 36.56
● AVD311N-R	Push-Pull	DPST-1NO/1NC	74K3697	49.81 44.25 41.93
● AVD302N-R	Pushlock Turn Reset	DPST-2NC	74K3687	51.94 46.14 43.73

➔ CONTINUED ➔

SWITCHES – PUSHBUTTON 30MM • SWITCHES – EMERGENCY STOP

30mm SPECIAL FUNCTION SWITCHES (CONT.)

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each			
			1-14	15-24	25-49	50-99
● AVN3B-R	Replacement Button for Pushlock Turn Reset Switches, 1 ^{37/64} " (40mm) Diameter	74K3689	12.00	10.66	10.10	9.60

(3439)

30mm ILLUMINATED MOMENTARY PUSHBUTTON OPERATORS

SQUARE D
Schneider Electric

30mm oillight/watertight illuminated pushbuttons. 24VAC/DC units are full voltage, 110VAC units are transformer type. All include full guard. UL listed, CSA certified, CE compliant. Complete pushbutton = operator + contact block(s). For complete assembly, order contact blocks separately on this page. NEMA 4x black bezel switches also available in red 24-28VAC/DC and 110-120VAC; go online or call.



NEMA 4, 13 CHROME BEZEL

Mfg. Part No.	Color	Voltage	Stock No.	Price Each	
				Each	2-4
9001KP38A31	Red	24-28VAC/DC	16F4055	141.16	130.60
9001K1L35R	Green	24-28VAC/DC	16F4054	141.16	130.60
9001KP38A31	Red	110-120VAC	17B062	170.84	158.07
9001KP38A31	Green	110-120VAC	14C7454	170.84	158.07

NEMA 4X BLACK BEZEL

9001SK1L35G	Green	24-28VAC/DC	16F4052	141.16	130.60
9001SK1L1G	Green	110-120VAC	17B648	170.84	158.07

(3588)

30mm NON-ILLUMINATED MOMENTARY PUSHBUTTON OPERATORS

SQUARE D
Schneider Electric

9001KR3U



9001KR1



9001KR2

30mm round, pushbuttons are oillight/watertight and meet NEMA 4, 13. Include one each black, red, green, yellow, orange, blue, white button inserts. For complete assembly, see contact blocks on this page. Complete pushbutton = operator + contact block(s). UL listed, CSA certified, CE compliant.

NEMA 4, 13 CHROME BEZEL

Mfg. Part No.	Guard	Stock No.	Price Each	
			Each	2-4
9001KR1U	Full	93F2969	42.25	38.93
9001KR3U	None	97F9982	42.25	38.93
9001KR2U	Extended	97F9981	42.25	38.93

NEMA 4X BLACK BEZEL (CORROSION RESISTANT)

9001SKR1U	Full	16F4046	42.25	38.93
9001SKR2U	Extended	16F4047	42.25	38.93

(3392)

30mm NON-ILLUMINATED MOMENTARY MUSHROOMS

SQUARE D
Schneider Electric

90001KR4



9001KR5

Switches have same performance specifications as 9001KR pushbuttons. All include red knob. For complete assembly, see contact blocks on this page. UL listed, CSA certified, CE compliant.

Mfg. Part No.	Diameter	Stock No.	Price Each	
			Each	2-4
9001KR4R	1.375" (34.93)	97F9983	85.58	78.61
9001KR5R	2.250" (57.15)	97F9985	85.58	78.61

NEMA 4X - BLACK BEZEL (CORROSION RESISTANT)

9001SKR5R	2.250" (57.15)	16F4049	85.58	78.61
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(3393)

30mm NON-ILLUMINATED PUSH-PULL SWITCHES

SQUARE D
Schneider Electric

Same as 9001KR series pushbuttons except maintained action and offers legend plate marked "Pull to Start", "Push to Stop". Includes 1 NO & 1 NC contacts. Red knob. Contact blocks accept two 12-24AWG solid or stranded wires. NEMA A600 rated @ 120VAC, 60A make/6A break/10A continuous; @ 240VAC, 30A make/3A break/10A continuous. 9001SKR series has NEMA 4X corrosion-resistant black bezel. UL listed, CSA certified, CE compliant.



Mfg. Part No.	Stock No.	Price Each	
		Each	2-4
9001KR9RH13	50F4630	173.43	161.75
9001SKR9RH13	16F4051	173.43	161.75

(3394)

CONTACT BLOCKS

SQUARE D
Schneider Electric

KA1, KA4



KA2



KA3

Contact blocks accept two 12-24AWG solid or stranded wires. NEMA A600 rated 120VAC 60A make/6A break/10A continuous; @ 240VAC, 30A make/3A break/10A continuous. 9001KA contact blocks are for use with all 9001K, 9001SK and 9001KX pushbuttons and selector switches. Terminals are Fingersafe® (meet VDE 0106 part 100). Color-coded. 9001KA1 and KA4 are clear. 9001KA2 is green. 9001KA3 is red. UL listed, CSA certified, CE compliant. *EC = Early Closing. Additional NO, EC version is available. Go online or call.

Mfg. Part No.	Contacts	Stock No.	Price Each	
			1-9	10-24
9001KA1	NO & NC**	93F2966	48.78	46.17
9001KA2	NO	93F2964	24.36	23.06
9001KA3	NC**	93F2965	24.36	23.06
9001KA4	NO EC* & NC	16F4057	48.78	46.17

** Positive Opening
(3453)

61 SERIES 16mm "FOOLPROOF" EMERGENCY STOP PUSHBUTTON SWITCHES

RoHS
Compliant
Available

Features:

- Kit comes complete with contact block and 43mm emergency stop legend plate
- Actuators meet EN418 "tease-proof" directive
- Actuator design prevents blocking by foreign objects
- For higher security applications key release versions available

Specifications:

- IP65 rated; oil and watertight
- Mount in 16mm diameter cut-out
- Maximum rating: 5A at 250VAC
- Gold contacts available



16mm "TEASE-PROOF" EMERGENCY STOP

Mfg. Part No.	Circuitry	Release	Stock No.	Price Each	
				1-24	25-249
● EUS-61-3440.414511LX	SPST-1NC	Twist	95F7140	68.70	60.16
● EUS-61-3440.415511LX	DPST-2NC	Twist	95F7141	73.95	64.75

(5135)

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(148857)

SWITCHES – EMERGENCY STOP

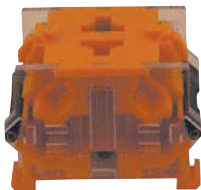
04 SERIES 22.5MM EMERGENCY STOP PUSHBUTTON SWITCHES



STEP 1: EN418 Emergency Stop Actuator



STEP 1: Key Release Emergency Stop Actuator



STEP 2: Contact Block



STEP 3: Legend Plates

Features:

- Stays in "off" position when actuated
- Released when twisted in direction of arrows
- 37mm versions rated to EN418 tease-proof directive
- Mounts in 22.5mm round hole
- Key release versions available for higher security applications
- Non-mushroom styles designed to prevent blocking of actuation
- Order SM contact blocks on page 1746 and legend plate separately below.

Use 3-Step Component Process to Assemble Complete Switch:

- STEP 1: Choose actuator
- STEP 2: Choose contact block separately on page 1746
- STEP 3: Choose emergency stop legend plate (optional)

STEP 1: 22.5mm "TEASE-PROOF" EMERGENCY STOP ACTUATOR

Mfg. Part No.	Release	Description	Stock No.	Price Each
● 704.064.2	Twist	37mm w/White Arrows	52F6442	28.71
● 704.066.2	Key	37mm w/White Arrows	88F5302	48.75

STEP 1: 22.5mm MUSHROOM EMERGENCY STOP ACTUATOR

● 704.074.2	Twist	50mm w/White Arrows	98F9617	22.78
● 704.075.2	Twist	50mm w/White Arrows	98F9504	24.06
● 704.076.0	Key	50mm w/White Arrows	72C7211	41.72
● 704.078.0	Key	50mm w/White Arrows	79K3930	46.12

STEP 3: EMERGENCY STOP LEGEND PLATES

Mfg. Part No.	Diameter (mm)	For Use With Series	Stock No.	Price Each
● 704.963.6	60	04, 84	52F6443	8.67
● 704.963.1	90	04, 84	28C7175	8.67

(5153)

04 SERIES 22mm STOP SWITCH PUSHBUTTON ACTUATOR



Actuators stay in "off" maintained position when actuated and can only be released when twisted in direction of arrows. Include red mushroom cap with arrows. Mfg. part no. 704-0742LX includes a yellow, "emergency stop" legend plate. Mount in 0.875" (22.5) round hole. 40mm diameter actuator. To assure separation in an emergency, order slow make/break 704 series contact blocks separately on page 1746. ISO 9001 certified.



Mfg. Part No.	Shroud	Stock No.	Price Each
● 704.074.2	Plastic	98F9617	22.78
● 704.0742LX	Plastic	50F7339	33.38
● 704.075.2	Metal	98F9504	24.06

(85090)

84 SERIES 22.5mm ILLUMINATED LOW PROFILE EMERGENCY STOP SWITCHES



E-Stop w/Plug-In Terminals



E-Stop w/Ribbon Cable

Features:

- Robust: single piece "monoblock" construction sealed to IP65
- Bright: LED illumination visible (including side view)
- Versatile Illumination: Powered by any voltage from 5 to 30 VDC
- Complete unit: no additional parts needed
- Compact shallow panel depth
- 22.5mm diameter mounting hole
- Illumination color: Red (custom colors available)
- Color of status indication ring: Black

Specifications:

- Foolproof: Conforms to EN418, EN60947-5-1, EN60947-5-5
- Electrical and mechanical life: 50,000 operations
- AC 15 B300: 3A at 120V; 1.5A at 240V
- DC 13 R300: 0.22A at 120V; 0.1A at 240V

ILLUMINATED - PLUG-IN TERMINATION

Mfg. Part No.	Circuitry	Release	Stock No.	Price Each
● 84-5021.2B20	1NC	Twist	76K1159	39.14
● 84-5041.2B20	2NC	Twist	76K1161	41.07
● 84-5031.2B20	1NC/1NO	Twist	76K1160	36.67

ILLUMINATED - RIBBON CABLE TERMINATION

● 84-5031.2B40	2NC	Twist	21M6856	61.16
● 84-5041.2B40	2NC	Twist	76K1162	58.69

NON-ILLUMINATED - PLUG-IN TERMINATION

● 84-5020.0020	1NC	Twist	01J2166	25.23
● 84-5040.0020	2NC	Twist	01J2174	27.20
● 84-5030.0020	1NC/1NO	Twist	01J2170	25.64

NON-ILLUMINATED - RIBBON CABLE TERMINATION

● 84-5020.0040	1NC	Twist	01J2167	31.50
● 84-5030.0040	2NC	Twist	01J2171	41.19
● 84-5040.0040	1NC/1NO	Twist	01J2175	34.51

(78975)

10250T SERIES EMERGENCY STOP PUSHBUTTON SWITCHES

Just Added



- Heavy-duty zinc die cast construction
- Enclosed silver contacts with reliability nibs
- Reliability nibs improve contact reliability even under dry circuit and fine dust conditions
- Drainage holes prevent buildup of liquid inside the operator which can prevent operation in freezing environments
- Grounding nibs bit through paint and other coatings to secure ground

The 10250T 30.5 mm pushbutton line features a zinc die cast construction with chrome-plated housing and mounting nut. The same durable construction is also available with the corrosive resistant E34 line of pushbuttons.

MOMENTARY PUSHBUTTON OPERATORS, NON-ILLUMINATED

Mfg. Part No.	Color	Stock No.	Price Each
10250T17213	Red (EMERG. STOP)	44K2136	78.50

MOMENTARY PUSHBUTTON SWITCHES - NON-ILLUMINATED

Mfg. Part No.	Circuitry	Color	Stock No.	Price Each
10250T29	SPST-NC	Red/Engrave E-STOP	44K2792	97.05

2-POSITION PUSH-PULL SWITCHES NON-ILLUMINATED

10250T5J63-1X	1NO/1NC	Red/Engrave E-STOP	44K3612	134.15
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SWITCH ACCESSORIES CONTACTS BLOCK - WITH SCREW TERMINALS

Mfg. Part No.	Circuit	Stock No.	Price Each
10250T1	1NO/1NC	44K1497	31.16
10250T2	DPST-2NO	44K2440	31.16
10250T3	DPST-2NC	44K2854	31.16
10250T51	SPST-NC	44K3626	15.71
10250T53	SPST-NO	44K3639	15.71

ROUND LEGEND PLATES

Mfg. Part No.	Description/For Use With	Stock No.	Price Each
10250TM13	E-STOP/Pushbutton Operators/ Indicating Lights	44K1249	3.57

➤ CONTINUED ➤

SWITCHES – EMERGENCY STOP

10250T SERIES EMERGENCY STOP PUSHBUTTON SWITCHES (CONT.)

SQUARE LEGEND PLATES

Mfg. Part No.	Circuit	Stock No.	Price Each
10252TS13	E-STOP/Pushbutton Operators/ Indicating Lights	19P7870	3.38

ENCLOSURES

10250TN11	1-Hole 2-Contact Block Depth Enclosure	44K1321	102.76
10250TN12	2-Hole 2-Contact Block Depth Enclosure	44K1322	116.07
10250TN13	3-Hole 2-Contact Block Depth Enclosure	44K1323	137.01
10250TN14	4-Hole 2-Contact Block Depth Enclosure	44K1324	168.40

(136527)

22mm EMERGENCY STOP MUSHROOM SWITCHES



Turn Reset

Push Pull

Key Reset

Screw terminal units include button, operator, contact blocks. Caps included, Red only. 1.58". UL listed, CSA certified, and CE compliant.

Mfg. Part No.	Mushroom Style	Circuitry	Stock No.	Price Each			
				1-24	25-49	50-99	100-249
● AVW410-R	Turn Reset	SPST-NO	74K3692	34.74	30.81	29.33	27.86
● AVW401-R	Turn Reset	SPST-NC	74K3690	34.74	30.81	29.33	27.86
● AVW411-R	Turn Reset	DPST-1NO/1NC	74K3693	40.41	35.83	34.12	32.40
● AVW402-R	Turn Reset	DPST-2NC	74K3691	40.41	35.83	34.12	32.40
● AYW410-R	Push-Pull	SPST-NO	74K3699	32.29	28.64	27.27	25.90
● AYW401-R	Push-Pull	SPST-NC	74K3698	32.29	28.64	27.27	25.90
● AYW411-R	Push-Pull	DPST-1NO/1NC	74K3700	37.68	33.41	31.81	30.21
● AXW401-R	Key Reset	SPST-NC	96F3667	46.07	40.86	38.90	36.95
● AXW411-R	Key Reset	DPST-1NO/1NC	96F3668	51.74	45.88	43.69	41.49

(3428)

22mm EMERGENCY STOP SWITCHES



Pushlock Turn Reset

Pushlock Key Reset

HW series 22mm emergency stop switches have 40mm mushroom heads. Rated 600VAC/DC, 10A. Meets IEC and NEMA 4/4X13 ratings. Metal bezels are nickel-plated aluminum. UL listed, CSA certified, CE compliant, and TUV approved. IP65 units with SPDT-1NO/1NC contact arrangement are also available; *go online or call*. May be mounted in Idéc's one-to-five hole enclosures.

Mfg. Part No.	Description	Circuitry	Bezel	Stock No.	Price Each	
					Each	2-5
● HW1B-Y2F01-R	Push-Pull	SPST-NC	Plastic	74K3760	30.03	29.07
● HW1B-V4F01-R	Pushlock Turn Reset	SPST-NC	Plastic	74K3755	31.12	30.12
● HW1B-V4F10-R	Pushlock Turn Reset	SPST-NO	Plastic	74K3756	31.12	30.12
● HW1B-X4F01-R	Pushlock Key Reset	SPST-NC	Plastic	74K3758	43.08	41.70
● HW1B-V4F11-R	Pushlock Turn Reset	DPST-1NO/1NC	Plastic	74K3757	36.68	35.51
● HW1B-X4F11-R	Pushlock Key Reset	DPST-1NO/1NC	Plastic	74K3759	48.64	47.09
● HW1B-V4F02-R	Pushlock Turn Reset	DPDT-2NC	Plastic	30B6648	36.68	35.51
● HW4B-Y2F01-R	Push-Pull	SPST-NC	Metal	74K3787	31.12	30.12
● HW4B-Y2F10-R	Push-Pull	SPST-NO	Metal	74K3788	31.12	30.12
● HW4B-V4F01-R	Pushlock Turn Reset	SPST-NC	Metal	74K3786	32.20	31.17

OPERATOR ASSEMBLY

Mfg. Part No.	Description	Bezel	Stock No.	Price Each
Type				Each 2-5
● HW1B-V4R	40mm Head Pushlock Turn Reset	Plastic	30B6651	21.93 21.23

(13235)

16mm EMERGENCY STOP SWITCHES

Just Added



40mm

29mm



- "Safe Break Action" ensures all NC contacts open if the contact block is separated from the operator
- Pushlock turn reset and push-pull functions built into same unit
- 40mm and 29mm mushroom button size
- Electrical life: 100,000 operations min.
- IP65 protection
- Rated thermal current: 5A

"Safe Break Action" design reverses the energy direction and uses the spring-pressure to assure that the NC contacts will open if the emergency switch is damaged or the contact blocks separate due to excessive force. EN compliant. XA1E-LV illuminated versions and 22mm sizes also available; *go online or call*.

40mm MUSHROOM

Mfg. Part No.	Circuitry	Terminals	Actuator Color	Stock No.	Price Each
XA1E-BV4U01-N	SPST-NC	Solder Lug	Gray	05R0258	40.95
XA1E-BV4U01-R	SPST-NC	Solder Lug	Red	05R0259	40.95
XA1E-BV4U01-Y	SPST-NC	Solder Lug	Yellow	05R0260	40.95
XA1E-BV4U01K-N	SPST-NC	Solder Lug	Gray	05R0261	35.10
XA1E-BV4U01K-R	SPST-NC	Solder Lug	Red	05R0262	35.10
XA1E-BV4U01K-Y	SPST-NC	Solder Lug	Yellow	05R0263	35.10
● XA1E-BV411V-R	DPST-1NO/1NC	Through Hole	Red	43J1432	35.10
● XA1E-BV411-R	DPST-1NO/1NC	Solder Lug	Red	43J1431	35.10
XA1E-BV4U02-N	DPST-2NC	Solder Lug	Gray	05R0264	46.80
XA1E-BV4U02-R	DPST-2NC	Solder Lug	Red	05R0265	46.80
XA1E-BV4U02-Y	DPST-2NC	Solder Lug	Yellow	05R0266	46.80
XA1E-BV4U02K-N	DPST-2NC	Solder Lug	Gray	05R0267	40.95
XA1E-BV4U02K-R	DPST-2NC	Solder Lug	Red	05R0268	40.95
XA1E-BV4U02K-Y	DPST-2NC	Solder Lug	Yellow	05R0269	40.95
● XA1E-BV402V-R	DPST-2NC	Through Hole	Red	43J1428	35.10
● XA1E-BV402-R	DPST-2NC	Solder Lug	Red	43J1427	35.10
● XA1E-BV413-R	4PST-3NC/1NO	Solder Lug	Red	43J1433	46.80
● XA1E-BV404V-R	4PST-4NC	Through Hole	Red	43J1430	46.80
● XA1E-BV404-R	4PST-4NC	Solder Lug	Red	43J1429	46.80

29mm MUSHROOM

XA1E-BV3U01-N	SPST-NC	Solder Lug	Gray	05R0246	40.95
XA1E-BV3U01-R	SPST-NC	Solder Lug	Red	05R0247	40.95
XA1E-BV3U01-Y	SPST-NC	Solder Lug	Yellow	05R0248	40.95
XA1E-BV3U01K-N	SPST-NC	Solder Lug	Gray	05R0249	35.10
XA1E-BV3U01K-R	SPST-NC	Solder Lug	Red	05R0250	35.10
XA1E-BV3U01K-Y	SPST-NC	Solder Lug	Yellow	05R0251	35.10
● XA1E-BV311V-R	DPST-1NO/1NC	Through Hole	Red	82K9264	35.10
● XA1E-BV311-R	DPST-1NO/1NC	Solder Lug	Red	82K9263	35.10
XA1E-BV3U02-N	DPST-2NC	Solder Lug	Gray	05R0252	46.80
XA1E-BV3U02-R	DPST-2NC	Solder Lug	Red	05R0253	46.80
XA1E-BV3U02-Y	DPST-2NC	Solder Lug	Yellow	05R0254	46.80
XA1E-BV3U02K-N	DPST-2NC	Solder Lug	Gray	05R0255	40.95
XA1E-BV3U02K-R	DPST-2NC	Solder Lug	Red	05R0256	40.95
XA1E-BV3U02K-Y	DPST-2NC	Solder Lug	Yellow	05R0257	40.95
● XA1E-BV302V-R	DPST-2NC	Through Hole	Red	82K9260	35.10
● XA1E-BV302-R	DPST-2NC	Solder Lug	Red	82K9259	46.80
● XA1E-BV313V-R	4PST-3NC/1NO	Through Hole	Red	82K9266	46.80
● XA1E-BV313-R	4PST-3NC/1NO	Solder Lug	Red	82K9265	46.80
● XA1E-BV304V-R	4PST-4NC	Through Hole	Red	82K9262	46.80
● XA1E-BV304-R	4PST-4NC	Solder Lug	Red	82K9261	46.80

40mm MUSHROOM—EMO

XA1E-BV411-RH-EMO	DPST-1NO/1NC	Solder Lug	Red	05R0270	21.39
XA1E-BV413-RH-EMO	4PST-3NC/1NO	Solder Lug	Red	05R0271	27.33

(83058)



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(148830)

SWITCHES – EMERGENCY STOP

22mm EMERGENCY STOP SWITCHES

Just Added



- "Safe Break Action" ensures all NC contacts open if contact block is separated from operator
- Pushlock turn reset and push-pull functions built into same unit
- Behind the panel depth is only 48.7mm for 4 contacts
- Electrical life: 100,000 operations min.
- IP65 protection
- Rated thermal current: 5A
- Screw terminals



40mm Mushroom Button



60mm Jumbo Mushroom Button

"Safe Break Action" design reverses the energy direction and uses the spring-pressure to assure that the NC contacts will open if the emergency switch is damaged or the contact blocks separate due to excessive force. EN compliant. May be mounted in Idec's one-to-five hole enclosures.

40mm MUSHROOM BUTTON WITH BUILT-IN 24V LED

Mfg. Part No.	Contacts	Termination	Actuator Color	Stock No.	Price Each
● XW1E-LV411Q4M-R	DPST-1NO/1NC	Screw	Red	43J1445	38.61 38.19
● XW1E-LV402Q4M-R	DPST-2NC	Screw	Red	43J1443	38.61 38.19
● XW1E-LV413Q4M-R	4PST-3NC/1NO	Screw	Red	43J1446	44.55 44.06
● XW1E-LV404Q4M-R	4PST-4NC	Screw	Red	43J1444	44.55 44.06

40mm MUSHROOM BUTTON

● XW1E-BV411M-R	DPST-1NO/1NC	Screw	Red	43J1437	29.70 29.37
● XW1E-BV402M-R	DPST-2NC	Screw	Red	43J1435	29.70 29.37
● XW1E-BV413M-R	4PST-3NC/1NO	Screw	Red	43J1438	35.64 35.25
● XW1E-BV404M-R	4PST-4NC	Screw	Red	43J1436	35.64 35.25

60mm JUMBO MUSHROOM BUTTON

● XW1E-BV511M-R	DPST-1NO/1NC	Screw	Red	43J1441	36.83 36.42
● XW1E-BV502M-R	DPST-2NC	Screw	Red	43J1439	36.83 36.42
● XW1E-BV513M-R	4PST-3NC/1NO	Screw	Red	43J1442	42.77 42.30
● XW1E-BV504M-R	4PST-4NC	Screw	Red	43J1440	42.77 42.30

40mm MUSHROOM—EMO

XW1E-BV411M-RH-EMO	DPST-1NO/1NC	Screw	Red	05R0272	33.27 32.90
XW1E-BV413M-RH-EMO	4PST-3NC/1NO	Screw	Red	05R0273	39.21 38.77

(83170)

EMERGENCY STOP SWITCHES



40mm Plastic Bezel - XN1E



60mm Plastic Bezel - XN1E



Padlock - XN4E



Flush Bezel - XN5E

Features:

- Plastic bezel, metallic padlock and flush bezel available
- Install up to 20 padlocks (XN4E)
- ø40, ø44 or ø60mm Mushroom heads available
- IDEC's original "safe break action" ensures that the contacts stay open when the contact block is detached from the operator
- Safety-lock mechanism (IEC60947-5-5, 6.2)
- 2-in-1: Push-to-lock, Pull/Turn-to-Reset (XN4E: Turn to Reset only)
- Push-ON LED model allows E-Stops to be illuminated only when latched
- Direct Opening Action mechanism (IEC60947-5-5, 5.2, IEC60947-5-1, Annex K)
- Only 47.7mm depth behind the panel for up to 4 contacts (XN1E)
- RoHS compliant (EU directive 2002/95/EC)

Specifications:

- Min. Force for Direct Opening Action: 80N
- Contact rating: 5A at 125VAC
- Contact resistance: 50mΩ max
- Mechanical life: 250,000 operations
- Terminal type: M3.0 screw terminal
- Degree of protection IP65 (IEC60529)
- XN4E series complies with OSHA and ISO 12100-2:2003 standards

XN1E 30MM EMERGENCY STOP SWITCHES

Mfg. Part No.	Actuator Diameter (mm)	Contacts	Illumination	Stock No.	Price Each
● XN1E-BV411MR	40	DPST-1NO/1NC	Non-Illuminated	75M3624	58.99
● XN1E-BV402MR	40	DPST-2NC	Non-Illuminated	75M3622	58.99
● XN1E-BV422MR	40	4PST-2NC/2NO	Non-Illuminated	75M3626	75.15
● XN1E-BV404MR	40	4PST-4NC	Non-Illuminated	75M3623	75.15
● XN1E-BV504MR	60	4PST-4NC	Non-Illuminated	75M3630	80.80
● XN1E-LV411Q4MR	40	DPST-1NO/1NC	Illuminated	75M3639	77.57
● XN1E-LV402Q4MR	40	DPST-2NC	Illuminated	75M3636	77.57

➤ CONTINUED ➤

EMERGENCY STOP SWITCHES (CONT.)

Mfg. Part No.	Actuator Diameter (mm)	Contacts	Illumination	Stock No.	Price Each
● XN1E-LV413Q4MR	40	4PST-3NC/1NO	Illuminated	75M3641	93.73
● XN1E-LV404Q4MR	40	4PST-4NC	Illuminated	75M3638	93.73

XN4E PADLOCK EMERGENCY STOP SWITCHES

● XN4E-BL411MR	44	DPST-1NO/1NC	Non-Illuminated	75M3649	96.96
● XN4E-BL402MR	44	DPST-2NC	Non-Illuminated	70M9745	96.96
● XN4E-BL413MR	44	4PST-3NC/1NO	Non-Illuminated	75M3651	113.12
● XN4E-BL404MR	44	4PST-4NC	Non-Illuminated	75M3648	113.12
● XN4E-LL411Q4MR	44	DPST-1NO/1NC	Illuminated	75M3657	115.55
● XN4E-LL402Q4MR	44	DPST-2NC	Illuminated	75M3654	115.55
● XN4E-LL413Q4MR	44	4PST-3NC/1NO	Illuminated	74M8776	131.71
● XN4E-LL404Q4MR	44	4PST-4NC	Illuminated	75M3656	131.71

XN4E FLUSH BEZEL EMERGENCY STOP SWITCHES

● XN5E-BV411MR	40	DPST-1NO/1NC	Non-Illuminated	75M3666	63.03
● XN5E-BV402MR	40	DPST-2NC	Non-Illuminated	75M3663	63.03
● XN5E-BV413MR	40	4PST-3NC/1NO	Non-Illuminated	75M3668	79.19
● XN5E-BV404MR	40	4PST-4NC	Non-Illuminated	75M3665	79.19
● XN5E-LV411Q4MR	40	DPST-1NO/1NC	Illuminated	75M3674	79.19
● XN5E-LV402Q4MR	40	DPST-2NC	Illuminated	75M3671	79.19
● XN5E-LV413Q4MR	40	4PST-3NC/1NO	Illuminated	75M3676	103.43
● XN5E-LV404Q4MR	40	4PST-4NC	Illuminated	75M3673	103.43

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each
● XW9Z-VL2M	Terminal Cover	43J1448	3.13
● XW9Z-VL2MF	IP20 Fingersafe Terminal Cover	43J1449	3.13
● XN9Z-HASP421	Lockout Hasp	75M3681	20.20
● XN9Z-T1	Locking Ring Wrench	75M3682	36.36
● TWST-T1	Locking Ring Twist Wrench	75M3620	4.85
● HNAV-0	Nameplate; Legend: (blank)	84C2747	3.76
● HNAV-27	Nameplate; Legend: "EMERGENCY STOP"	84C2748	3.45

(105921)

UNIBODY 22MM E-STOP™ SWITCHES



- Finger-safe IP20 contacts
- Tamperproof non-removable buttons
- Meet EN418
- IEC-style mounting
- Contacts rated 10A thermal current, 600V max.
- Screw terminal connectors



Operator cannot remove switch from exterior of control panel. LED types are 24VAC/DC. UL listed, CSA certified, CE compliant, and TÜV approved.

Mfg. Part No.	Circuitry	Description	Stock No.	Price Each
● HW1E-BV4F11R	DPST-1NO/1NC	Pushlock Turn Reset, Non-Illuminated	74K3761	37.13 33.00
● HW1E-LV4F11QD-R-24V	DPST-1NO/1NC	Illuminated (LED)	74K3763	47.34 42.08
● HW1E-BV412R-TK2093-1	3PST-2NC/1NO	Pushlock Turn Reset, Non-Illuminated	74K3762	55.69 49.50

(52925)

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(148835)



SWITCHES – EMERGENCY STOP

SAFETY ENABLING SWITCHES

- Meets ANSI and RIA standards
- Max current: 3A
- Rated insulation voltage: 250VAC/VDC
- HE1G grip switch features optional e-stop
- UL listed, CE compliant



Grip Switch w/E-Stop

Grip Switch



A22E SERIES EMERGENCY STOP SWITCHES



OMRON SCIENTIFIC TECHNOLOGIES, INC.



Meets the latest ANSI and RIA standards for working with robotic equipment (ANSI/RIA R15.06). These standards specifically require the use of 3-position enabling switches in teaching pendants. **HE series** switches feature OFF-ON-OFF functionality, based on studies showing that the human response in panic situations may be to squeeze or to release. The contacts will not close when released from OFF (position 3) to OFF (position 1), as per EN60204-1; 9.2.5.8. Mechanical life: 1,000,000 operations. Electrical life: 100,000 operations (at full load). Terminal shape: Internal screw terminal block.

Mfg. Part No.	Circuitry	Action	Description	Degree of Protection	Stock No.	Price Each
● HE1G-20ME	DPST-2NC	Off-On-Off	Grip Switch w/E-Stop	IP65	72K7283	429.00
● HE1G-21SM	SPST-NC	Off-On-Off	Grip Switch	IP66	72K7284	357.50

(72454)

A165E COMPACT EMERGENCY STOP SWITCHES



OMRON SCIENTIFIC TECHNOLOGIES, INC.

- Minimal depth required for mounting on panels
- Direct opening mechanism to open the circuit if the contact fuses
- Safety lock mechanism prevents operating errors
- Two piece construction for easy installation
- Conforms to EN418
- Illuminated models are 24 VDC

Just Added



ILLUMINATED EMERGENCY STOP SWITCHES

Mfg. Part No.	Description	Circuitry	Stock No.	Price 1-24
● A165E-LM-24D-01	Lighted E-stop, 40mm dia.	SPST-NC	01N5262	38.47
● A165E-LM-24D-02	Lighted E-stop, 40mm dia.	DPST-2NC	01N5263	42.42

NON-ILLUMINATED EMERGENCY STOP SWITCHES

● A165E-M-02	Non-lighted E-stop, 40mm dia.	DPST-2NC	94C2774	32.23
● A165E-S-03U	Non-lighted E-stop, 30mm dia.	3PST-3NC	49C9099	37.98
● A165E-M-03U	Non-lighted E-stop, 40mm dia.	3PST-3NC	63H2149	39.04

NON-ILLUMINATED EMERGENCY STOP SOCKETS

● A165E-01	Non-lighted socket, 30mm dia.	SPST-NC	01N5264	6.91
● A165E-02	Non-lighted socket, 30mm dia.	DPST-2NC	72C3971	12.66

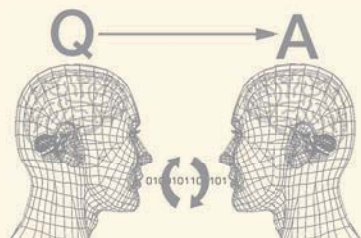
ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price 1-24
● A16Z-5070	Background Label; For Use With:A16 Series Switches	80H9939	3.95

(115465)

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(148839)



A22E-3466-1

A22Z-EG1

- Direct opening mechanism to open the circuit if the contact fuses
- Safety lock mechanism prevents operating errors
- Easy mounting and removal of switch blocks using a lever
- Install using either round, or forked crimp terminals
- Illuminated models are 24 VAC/VDC

The A22E Emergency stop switches offer a full line of contact configurations. Available with 30mm and 40mm heads, illuminated and non-illuminated. Push with pull to reset or push with twist to reset options. Emergency off shroud is available for SEMI S2 applications. The emergency stop switch with integrated control box, can simplify installation.

NON-ILLUMINATED EMERGENCY STOP SWITCHES

Mfg. Part No.	Description	Circuitry	Stock No.	Price Each
● A22E-MP-01	Push-pull reset	SPST-NC	01N5271	31.65
● A22E-MP-11	Push-pull reset	SPST-NO+SPST-NC	80H9919	34.08
● A22E-MP-02	Push-pull reset	DPST-2NC	01N5272	36.50
● A22E-M-01	Push-lock, turn reset	SPST-NC	15N7086	25.32
● A22E-M-11	Push-lock, turn reset	SPST-NO+SPST-NC	01N5267	29.54
● A22E-M-02	Push-lock, turn reset	DPST-2NC	55C4473	27.62
● A22E-S-01	Push-lock, turn reset	SPST-NC	01N5273	29.60
● A22E-S-11	Push-lock, turn reset	SPST-NO+SPST-NC	01N5274	26.64
● A22E-S-02	Push-lock, turn reset	DPST-2NC	85C4752	29.47
● A22E-MK-01	Push-lock, key reset	SPST-NC	01N5269	44.39
● A22E-MK-11	Push-lock, key reset	SPST-NO+SPST-NC	54H3917	34.99
● A22E-MK-02	Push-lock, key reset	DPST-2NC	01N5270	37.49

ILLUMINATED EMERGENCY STOP SWITCHES

● A22EL-M-24A-01	Push-lock, turn reset	SPST-NC	87H8522	42.20
● A22EL-M-24A-02	Push-lock, turn reset	DPST-2NC	50M1992	50.31

EMERGENCY STOP SWITCHES WITH INTEGRATED CONTROL BOX

● A22E-M-01B	Push-lock, turn reset	SPST-NC	01N5266	87.35
● A22E-M-11B	Push-lock, turn reset	SPST-NO+SPST-NC	01N5268	99.60
● A22E-M-02B	Push-lock, turn reset	DPST-2NC	50M1990	146.15

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each
● A22-24AR	A22-24AR, spare LED light 24VAC/VDC	01N5265	20.72
A22KK	Key For A22 Selector Switch	66J1595	10.33
● A22Z-3466-1	E-stop background label, 60-dia. "Emergency Stop"	07H9788	3.95
● A22Z-EG1	Emergency Off Shroud, SEMI S2 compatible	01N5276	21.10

(115464)

SWITCHES – EMERGENCY STOP • SWITCHES – PUSHBUTTON VANDAL RESISTANT

XB6 SERIES 16mm
MUSHROOM EMERGENCY
STOP PUSHBUTTONS

Telemecanique™

Trigger action emergency stop. Complete unit features red key or red turn release. Direct-acting contacts and tactile/audible feedback. Diameter of head: 1.17" (30mm). 1 N/O and 1 N/C. Contacts rated 3A, 300V. NEMA 4X rating. UL listed, CSA certified, CE compliant.



Mfg. Part No.	Description	Stock No.	Price Each	
			Each	2-4
XB6AS8345B	Red, Turn to Release	17C6994	79.43	75.49
XB6AS9345B	Red, Key to Release	17C6995	95.06	90.35

(61170)

28mm EMERGENCY
STOP SWITCHES

Just Added

Features:

- Mushroom head actuator 28x30mm
- Illuminated actuator (optional)
- Red actuator

Specifications:

- Mechanical life: 100,000 operations
- Contact rating: 5A at 250VAC; 8A at 125VAC
- Max. insulation voltage: 2000V, 60Hz
- Panel thickness: 0.5mm to 5mm
- Degree of protection: IP65
- Operating temperature: -25°C to +55°C



NON-ILLUMINATED

Mfg. Part No.	Current (A)	Circuitry	Lamp	Termination	Stock No.	Price Each
						1-24
● MCADA16E6-R11-B10R	8	SPDT-1NO/1NC	...	Solder Lug	12N2293	26.74

ILLUMINATED

● MCADA16E6-R11-B1FR	8	SPDT-1NO/1NC	110V Neon	Solder Lug	12N2289	26.56
● MCADA16E6-R11-B1GR	8	SPDT-1NO/1NC	240V Neon	Solder Lug	12N2290	26.56
● MCADA16E6-R11-B1JR	8	SPDT-1NO/1NC	12V LED	Solder Lug	12N2291	28.09
● MCADA16E6-R11-B1KR	8	SPDT-1NO/1NC	24V LED	Solder Lug	12N2292	28.09

(142180)

VANDAL RESISTANT
PUSHBUTTON SWITCHES

- Push on/push off
- SPST-NO, momentary and latching
- (On) = Momentary action
- 16mm compact design
- Long life
- Multi terminal options
- Curved or flat actuator



FLAT ACTUATOR

Mfg. Part No.	Circuitry	Function	Termination	Stock No.	Price Each	
					1-9	10-24
● AV0630C900	SPST-NO	(On)	Screw	72J8711	10.01	8.97
● AV0611A200	SPST-NO	Latching	Solder Lug	75K6889	18.15	16.26

CURVED ACTUATOR

● AV1630C900	SPST-NO	(On)	Screw	37J1566	20.13	18.03
● AV1611A200	SPST-NO	Latching	Solder Lug	75K6908	19.61	17.56
● AV1611A800	SPST-NO	Latching	Quick Connect	75K6909	38.50	34.48

(90823)

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(148843)

21.5mm STAINLESS STEEL
VANDAL-RESISTANT
PUSHBUTTON SWITCHES

BULGIN

Features:

- Front panel sealed to IP66
- 21.5mm diameter
- Momentary action

Specifications:

- Contact rating: 3A at 125VAC
- Circuitry: SPDT-CO
- Termination: Solder lugs
- Mechanical life: 1million ops
- Body and button: Stainless steel
- Moulding: Glass filled nylon
- Terminals: Tin-plated brass
- Contacts: Silver-plated brass



Just Added

Mfg. Part No.	Current (A)	Circuitry	Function	Termination	Stock No.	Price Each
						1-24
● MPD031	3	DPDT-2CO	Off-(On)	Solder Lug	08N4486	17.20

(142330)

32mm STAINLESS STEEL
VANDAL-RESISTANT
PUSHBUTTON SWITCHES

BULGIN

Features:

- Front panel sealed to IP68
- Flush or protruding button
- 32mm diameter
- Momentary action

Specifications:

- Contact rating: 5A at 250VAC
- Circuitry: SPDT-CO
- Termination: Solder lugs
- Mechanical life: 1million ops
- Body and button: Stainless steel
- Moulding: Glass filled nylon
- Terminals: Tin-plated brass
- Contacts: Fine silver



Just Added

Mfg. Part No.	Current (A)	Circuitry	Function	Button Profile	Termination	Stock No.	Price Each
							1-24
● MP0050	5	SPDT-CO	Off-(On)	Flush	Solder Lug	08N4487	26.93
● MP0050/2	5	SPDT-CO	Off-(On)	Protruded	Solder Lug	08N4488	26.93

(142267)

VANDAL-RESISTANT SWITCHES



BULGIN

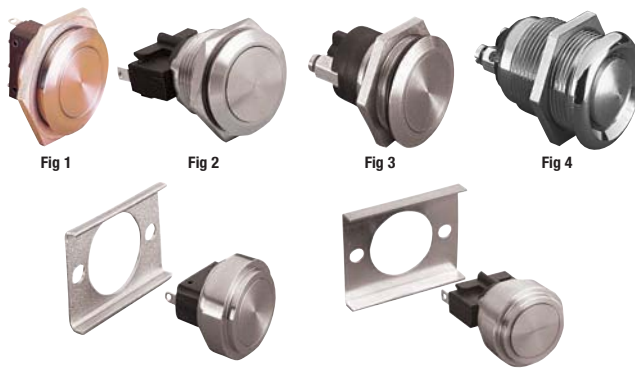


Fig 1

Fig 2

Fig 3

Fig 4

Fig 5

Fig 6

An extensive range of vandal-resistant switches designed with high resistance to wear and tear, corrosion and harsh use in potentially hostile environments. Manufactured from marine grade stainless steel, prominent, domed and low profile buttons, front and rear panel mounting options, front panel sealing option. All versions: (On) = Momentary action

FRONT PANEL MOUNTING

Mfg. Part No.	Fig.	Circuitry	Function	Rating	Overall Dia (mm)	Mtg. Hole Dia. (mm)	Stock No.	Price Each
								1-9
● MP0027	1	SPDT	(On)	5A at 250V	28	26	48F2529	18.54
● MP0027/2	1	SPDT	(On)	5A at 250V	28	26	91C6847	20.18
● MP0027/3	1	SPDT	(On)	5A at 250V	28	26	91C6848	20.18
● MP0038	1	SPDT	(On)	5A at 250V	28	26	48F2533	18.67
● MP0038/2	1	SPDT	(On)	5A at 250V	28	26	91C6853	21.00
● MP0038/3	1	SPDT	(On)	5A at 250V	28	26	40C0166	21.00
● MPL027	1	SPDT	Latching	2A at 50V	28	26	33K3579	27.75
● MPL038	1	SPDT	Latching	2A at 50V	28	26	33K3582	24.82
	2			5A at 250V	22	19.2		
● MP0031/2	2	SPDT	(On)	5A at 250V	22	19.2	91C6849	19.18
● MP0037	3	SPST	(On)	1A at 250V	22	19.2	48F2532	12.68
● MP0037/2	3	SPST	(On)	1A at 250V	22	19.2	91C6852	14.16
● MP0037/3	3	SPST	(On)	1A at 250V	22	19.2	32C5776	14.16

➤ CONTINUED ➤

SWITCHES – PUSHBUTTON VANDAL RESISTANT

VANDAL-RESISTANT SWITCHES (CONT.)

Mfg. Part No.	Fig.	Circuitry	Function	Rating	Overall Dia (mm)	Mtg. Hole Dia. (mm)	Stock No.	Price Each
● MP0013	4	SPST	(On)	1A at 250V	22	19.2	48F2526	7.99
● MP0033	4	SPST	(On)	1A at 250V	22	19.2	48F2527	13.01

REAR PANEL MOUNTING

Mfg. Part No.	Fig.	Circuitry	Function	Rating	Overall Dia (mm)	Stock No.	Price Each
● MP0025	5	SPDT	(On)	5A at 250V	22	48F2528	18.54
● MP0025/2	5	SPDT	(On)	5A at 250V	22	91C6845	20.18
● MP0025/3	5	SPDT	(On)	5A at 250V	22	91C6846	20.18
● MPL025	5	SPDT	Latching	2A at 50V	22	33K3578	24.82
● MP0034	6	SPDT	(On)	5A at 250V	19	48F2531	16.68
● MP0034/2	6	SPDT	(On)	5A at 250V	19	91C6850	19.18
● MP0034/3	6	SPDT	(On)	5A at 250V	19	91C6851	19.18
● MPL034	6	SPDT	Latching	2A at 50V	19	33K3581	22.62

(33387)

ILLUMINATED VANDAL RESISTANT SWITCHES

Just Added



B BULGIN



Illustrated vandal resistant security switches styled to match mfg. part nos. MP0031 and MP0037 switches. Manufactured from stainless steel with tough polycarbonate lenses. Single pole push to make contacts. Bright daylight LEDs, dot or ring illumination, 2.8mm solder tags or screw terminations, front panel sealed to IP66, single hole mounting (19mm dia.).

Mfg. Part No.	Overall Dia (mm)	Mounting Diameter (mm)	Illumination	Color	Termination	Stock No.	Price Each
● MPI001/TERM/AM	22	19	Dot	Amber	Screw	50H4762	23.52
● MPI001/28/AM	22	19	Dot	Amber	Solder Lug	50H4763	22.81
● MPI001/TERM/BL	22	19	Dot	Blue	Screw	91C6841	24.69
● MPI001/28/BL	22	19	Dot	Blue	Solder Lug	91C6842	23.98
● MPI001/TERM/GN	22	19	Dot	Green	Screw	18C5581	22.34
● MPI001/28/GN	22	19	Dot	Green	Solder Lug	18C5579	21.63
● MPI001/TERM/RD	22	19	Dot	Red	Screw	18C5580	22.34
● MPI001/28/RD	22	19	Dot	Red	Solder Lug	18C5565	21.63
● MPI001/TERM/D4	22	19	Dot	Red/Blue	Screw	75M3517	26.77
● MPI001/28/D4	22	19	Dot	Red/Blue	Solder Lug	75M3516	26.77
● MPI001/TERM/D1	22	19	Dot	Red/Green	Screw	75M3514	26.77
● MPI001/28/D1	22	19	Dot	Red/Green	Solder Lug	75M3515	26.77
● MPI001/TERM/WH	22	19	Dot	White	Screw	87K6706	26.77
● MPI001/28/WH	22	19	Dot	White	Solder Lug	75M3518	26.77
● MPI002/TERM/AM	22	19	Ring	Amber	Screw	50H4764	23.52
● MPI002/28/AM	22	19	Ring	Amber	Solder Lug	50H4765	22.81
● MPI002/TERM/BL	22	19	Ring	Blue	Screw	91C6843	24.69
● MPI002/28/BL	22	19	Ring	Blue	Solder Lug	91C6844	23.98
● MPI002/TERM/WH	22	19	Ring	White	Screw	87K6406	26.77
● MPI002/TERM/GN	22	19	Ring	Green	Screw	18C5588	22.34
● MPI002/28/GN	22	19	Ring	Green	Solder Lug	18C5584	21.63
● MPI002/TERM/RD	22	19	Ring	Red	Screw	18C5587	22.34
● MPI002/28/RD	22	19	Ring	Red	Solder Lug	18C5582	21.63
● MPI002/TERM/D4	22	19	Ring	Red/Blue	Screw	75M3522	26.77
● MPI002/28/D4	22	19	Ring	Red/Blue	Solder Lug	75M3520	26.77
● MPI002/TERM/D1	22	19	Ring	Red/Green	Screw	75M3522	26.77
● MPI002/28/D1	22	19	Ring	Red/Green	Solder Lug	75M3519	26.77
● MPI002/28/WH	22	19	Ring	White	Solder Lug	75M3525	26.77

(72390)

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(148886)

VANDAL-RESISTANT INDICATORS



B BULGIN

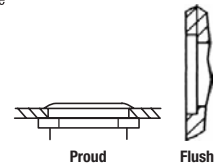


DX0506



DX0505

Bezel Profiles



Proud

Flush

Tough vandal-resistant indicators designed to complement Bulgin's vandal-resistant switches. Stainless steel bodies with front panel sealing to IP67. Shock- and vibration-resistant. 15mm diameter. Single-hole mounting (12.1mm). Red, Green Yellow or Blue LEDs. Wide viewing angle. Operating voltage: 24VDC.

Mfg. Part No.	Bezel	LED Color	Termination	Stock No.	Price Each
● DX0505/RD/24	Proud	Red	2.8mm Tag	91C6492	14.35
● DX0505/GN/24	Proud	Green	2.8mm Tag	91C6491	14.35
● DX0505/YL/24	Proud	Yellow	2.8mm Tag	91C6493	14.35
● DX0505/BL/24	Proud	Blue	2.8mm Tag	91C6490	19.43
● DX0506/RD/24	Flush	Red	2.8mm Tag	91C6496	14.35
● DX0506/GN/24	Flush	Green	2.8mm Tag	91C6495	14.35
● DX0506/YL/24	Flush	Yellow	2.8mm Tag	91C6497	14.35
● DX0506/BL/24	Flush	Blue	2.8mm Tag	91C6494	19.43

(72419)

ACTIVE METAL™ ULTRA-RUGGED TOUCH SENSORS

ITW Switches
SENSORS, SWITCHES, ELECTRONIC CONTROLS

Just Added



19mm



22mm



30mm

Features:

- Touch activates shear and torsional mechanical waves at ultrasonic frequencies as a high quality resonator
- High sensitivity designed for indoor use; may be susceptible to false activations caused by water or an accidental touch
- Medium sensitivity designed for indoor/outdoor use with or without a gloved hand; impervious to false activations caused by water
- Low sensitivity designed for indoor/outdoor use without a gloved hand (heavy force required); impervious to false activations

Specifications:

- Contact rating: 100mA at 5VDC or 24VDC
- Material: Zinc alloy
- Operating temperature: -40°C to +85°C
- Relative humidity: No Effect
- Ingress protection: IP68
- Shock: Tested to 30g in each axis
- Vibration: Tested at 4 hours each axis
- Impact: 2 ft-lb impact from 1.7ft (per UL 294)
- On = Maintained action; (On) = Momentary action

19MM HIGH SENSITIVITY SWITCHES — DIGITAL OUTPUT

Mfg. Part No.	Circuitry	Input Voltage (VDC)	Function	Actuator Color	Stock No.	Price Each
● T01-041901-007-NH-M-1	SPST-Normally High	5	Off-(On)	Black	08R4919	31.39
● T01-041901-006-NH-M-1	SPST-Normally High	5	Off-(On)	Chrome	08R4907	30.60
● T01-041901-005-NH-M-1	SPST-Normally High	5	Off-(On)	Satin	08R4895	31.09
● T01-041901-007-NL-M-1	SPST-Normally Low	5	Off-(On)	Black	08R4925	31.39
● T01-041901-006-NL-M-1	SPST-Normally Low	5	Off-(On)	Chrome	08R4913	30.60
● T01-041901-005-NL-M-1	SPST-Normally Low	5	Off-(On)	Satin	08R4901	31.09

19MM HIGH SENSITIVITY SWITCHES — OPEN COLLECTOR OUTPUT

● T01-041902-007-NC-A-1	SPST-NC	5	On-Off	Black	08R4952	31.48
● T01-041902-006-NC-A-1	SPST-NC	5	On-Off	Chrome	08R4940	30.70
● T01-041902-005-NC-A-1	SPST-NC	5	On-Off	Satin	08R4928	31.19
● T01-041903-007-NC-A-1	SPST-NC	10-24	On-Off	Black	08R4989	31.94
● T01-041903-006-NC-A-1	SPST-NC	10-24	On-Off	Chrome	08R4977	31.15
● T01-041903-005-NC-A-1	SPST-NC	10-24	On-Off	Satin	08R4964	31.64
● T01-041902-007-NO-A-1	SPST-NO	5	On-Off	Black	08R4958	31.48
● T01-041902-006-NO-A-1	SPST-NO	5	On-Off	Chrome	08R4946	30.70
● T01-041902-005-NO-A-1	SPST-NO	5	On-Off	Satin	08R4934	31.19
● T01-041903-007-NO-A-1	SPST-NO	10-24	On-Off	Black	08R4995	31.94
● T01-041903-006-NO-A-1	SPST-NO	10-24	On-Off	Chrome	08R4983	31.15
● T01-041903-005-NO-A-1	SPST-NO	10-24	On-Off	Satin	08R4970	31.64

19MM MEDIUM SENSITIVITY SWITCHES — DIGITAL OUTPUT

● T01-041901-007-NH-M-2	SPST-Normally High	5	Off-(On)	Black	08R4920	31.39
● T01-041901-006-NH-M-2	SPST-Normally High	5	Off-(On)	Chrome	08R4908	30.60
● T01-041901-005-NH-M-2	SPST-Normally High	5	Off-(On)	Satin	08R4896	31.09

➤ CONTINUED ➤

SWITCHES – PUSHBUTTON VANDAL RESISTANT

ACTIVE METAL™ ULTRA-RUGGED TOUCH SENSORS (CONT.)

19MM MEDIUM SENSITIVITY SWITCHES — DIGITAL OUTPUT

Mfg. Part No.	Circuitry	Input Voltage (VDC)	Function	Actuator Color	Stock No.	Price Each 1-9
● T01-041901-007-NL-M-2	SPST-Normally Low	5	Off-(On)	Black	08R4926	31.39
● T01-041901-006-NL-M-2	SPST-Normally Low	5	Off-(On)	Chrome	08R4914	30.60
● T01-041901-005-NL-M-2	SPST-Normally Low	5	Off-(On)	Satin	08R4902	31.09

19MM LOW SENSITIVITY SWITCHES — DIGITAL OUTPUT

● T01-041901-007-NH-M-3	SPST-Normally High	5	Off-(On)	Black	08R4921	31.39
● T01-041901-006-NH-M-3	SPST-Normally High	5	Off-(On)	Chrome	08R4909	30.60
● T01-041901-005-NH-M-3	SPST-Normally High	5	Off-(On)	Satin	08R4897	31.09
● T01-041901-007-NL-M-3	SPST-Normally Low	5	Off-(On)	Black	08R4927	31.39
● T01-041901-006-NL-M-3	SPST-Normally Low	5	Off-(On)	Chrome	08R4915	30.60
● T01-041901-005-NL-M-3	SPST-Normally Low	5	Off-(On)	Satin	08R4903	31.09

22MM HIGH SENSITIVITY SWITCHES — DIGITAL OUTPUT

● T01-042201-007-NH-M-1	SPST-Normally High	5	Off-(On)	Black	08R5028	33.43
● T01-042201-006-NH-M-1	SPST-Normally High	5	Off-(On)	Chrome	08R5016	32.75
● T01-042201-005-NH-M-1	SPST-Normally High	5	Off-(On)	Satin	08R5004	33.24
● T01-042201-007-NL-M-1	SPST-Normally Low	5	Off-(On)	Black	08R5034	33.43
● T01-042201-006-NL-M-1	SPST-Normally Low	5	Off-(On)	Chrome	08R5022	32.75
● T01-042201-005-NL-M-1	SPST-Normally Low	5	Off-(On)	Satin	08R5010	33.24

22MM HIGH SENSITIVITY SWITCHES — OPEN COLLECTOR OUTPUT

● T01-042202-007-NC-A-1	SPST-NC	5	On-Off	Black	08R5061	33.53
● T01-042202-006-NC-A-1	SPST-NC	5	On-Off	Chrome	08R5049	32.84
● T01-042202-005-NC-A-1	SPST-NC	5	On-Off	Satin	08R5037	33.34
● T01-042203-007-NC-A-1	SPST-NC	10-24	On-Off	Black	08R5097	33.97
● T01-042203-006-NC-A-1	SPST-NC	10-24	On-Off	Chrome	08R5085	33.28
● T01-042203-005-NC-A-1	SPST-NC	10-24	On-Off	Satin	08R5073	33.77
● T01-042202-007-NO-A-1	SPST-NO	5	On-Off	Black	08R5067	33.53
● T01-042202-006-NO-A-1	SPST-NO	5	On-Off	Chrome	08R5055	32.84
● T01-042202-005-NO-A-1	SPST-NO	5	On-Off	Satin	08R5043	33.34
● T01-042203-007-NO-A-1	SPST-NO	10-24	On-Off	Black	08R5103	33.97
● T01-042203-006-NO-A-1	SPST-NO	10-24	On-Off	Chrome	08R5091	33.28
● T01-042203-005-NO-A-1	SPST-NO	10-24	On-Off	Satin	08R5079	33.77

22MM MEDIUM SENSITIVITY SWITCHES — DIGITAL OUTPUT

● T01-042201-007-NH-M-2	SPST-Normally High	5	Off-(On)	Black	08R5029	33.43
● T01-042201-006-NH-M-2	SPST-Normally High	5	Off-(On)	Chrome	08R5017	32.75
● T01-042201-005-NH-M-2	SPST-Normally High	5	Off-(On)	Satin	08R5005	33.24
● T01-042201-007-NL-M-2	SPST-Normally Low	5	Off-(On)	Black	08R5035	33.43
● T01-042201-006-NL-M-2	SPST-Normally Low	5	Off-(On)	Chrome	08R5023	32.75
● T01-042201-005-NL-M-2	SPST-Normally Low	5	Off-(On)	Satin	08R5011	33.24

22MM LOW SENSITIVITY SWITCHES — DIGITAL OUTPUT

● T01-042201-007-NH-M-3	SPST-Normally High	5	Off-(On)	Black	08R5030	33.43
● T01-042201-006-NH-M-3	SPST-Normally High	5	Off-(On)	Chrome	08R5018	32.75
● T01-042201-005-NH-M-3	SPST-Normally High	5	Off-(On)	Satin	08R5006	33.24
● T01-042201-007-NL-M-3	SPST-Normally Low	5	Off-(On)	Black	08R5036	33.43
● T01-042201-006-NL-M-3	SPST-Normally Low	5	Off-(On)	Chrome	08R5024	32.75
● T01-042201-005-NL-M-3	SPST-Normally Low	5	Off-(On)	Satin	08R5012	33.24

30MM HIGH SENSITIVITY SWITCHES — DIGITAL OUTPUT

● T01-043001-007-NH-M-1	SPST-Normally High	5	Off-(On)	Black	08R5136	39.62
● T01-043001-006-NH-M-1	SPST-Normally High	5	Off-(On)	Chrome	08R5124	39.13
● T01-043001-005-NH-M-1	SPST-Normally High	5	Off-(On)	Satin	08R5112	39.38
● T01-043001-007-NL-M-1	SPST-Normally Low	5	Off-(On)	Black	08R5142	39.62
● T01-043001-006-NL-M-1	SPST-Normally Low	5	Off-(On)	Chrome	08R5130	39.13
● T01-043001-005-NL-M-1	SPST-Normally Low	5	Off-(On)	Satin	08R5118	39.38

30MM MEDIUM SENSITIVITY SWITCHES — DIGITAL OUTPUT

● T01-043001-007-NH-M-2	SPST-Normally High	5	Off-(On)	Black	08R5137	39.62
● T01-043001-006-NH-M-2	SPST-Normally High	5	Off-(On)	Chrome	08R5125	39.13
● T01-043001-005-NH-M-2	SPST-Normally High	5	Off-(On)	Satin	08R5113	39.38
● T01-043001-007-NL-M-2	SPST-Normally Low	5	Off-(On)	Black	08R5143	39.62
● T01-043001-006-NL-M-2	SPST-Normally Low	5	Off-(On)	Chrome	08R5131	39.13
● T01-043001-005-NL-M-2	SPST-Normally Low	5	Off-(On)	Satin	08R5119	39.38

30MM LOW SENSITIVITY SWITCHES — DIGITAL OUTPUT

● T01-043001-007-NH-M-3	SPST-Normally High	5	Off-(On)	Black	08R5138	39.62
● T01-043001-006-NH-M-3	SPST-Normally High	5	Off-(On)	Chrome	08R5126	39.13
● T01-043001-005-NH-M-3	SPST-Normally High	5	Off-(On)	Satin	08R5114	39.38
● T01-043001-007-NL-M-3	SPST-Normally Low	5	Off-(On)	Black	08R5144	39.62
● T01-043001-006-NL-M-3	SPST-Normally Low	5	Off-(On)	Chrome	08R5132	39.13
● T01-043001-005-NL-M-3	SPST-Normally Low	5	Off-(On)	Satin	08R5120	39.38

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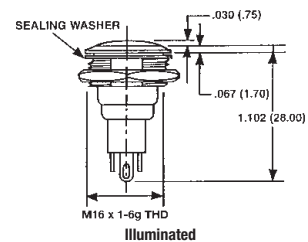
57 SERIES MINIATURE VANDAL-RESISTANT PUSHBUTTON SWITCHES

ITW Switches
SENSORS, SWITCHES, ELECTRONIC CONTROLS

RoHS Compliant Available



57 Series



- Momentary Action
- Travel (Norm): .09" (2.3)
- Current Rating: 400mA @ 32VAC Resistive, 100mA @ 50VDC Resistive, 125mA @ 125VAC Resistive
- Operating Temperature Range: -40°C to +125°C Illuminated (-40°F to 257°F), 35°C to +85°C (-31°F to 185°F)

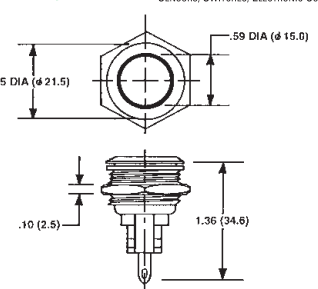
The 57 series pushbutton switches are miniature, rugged panel sealed with a round button and bezel. Available with or without LED status illumination. A lockout is supplied with each switch. Manufactured of non-spark zinc alloy and chrome velour plated. Panel is sealed to IP67 and is designed to be impact resistant. The small size, robustness and panel sealing makes these switches ideal in a harsh environment. The illuminated version is available with a choice of 2 high brightness LED colors: red LED or green LED. All measurements in inches (mm).

Mfg. Part No.	Description	LED Color	Stock No.	Price Each 1-9
● 57-111	Non-Illuminated	...	31C7633	16.92
● 57-112G	Illuminated	Green	31C7634	21.09
● 57-112R	Illuminated	Red	31C7635	21.09

(68323)

76-95 SERIES VANDAL-RESISTANT PUSHBUTTON SWITCHES

RoHS Compliant Available

ITW Switches
SENSORS, SWITCHES, ELECTRONIC CONTROLS

- Momentary Action
- Operating Temperature Range: -30°C to +105°C (-22°F to 221°F)
- Form Z: 5A @ 125/250VAC, 3A @ 28VDC Ind.

The 76-95 series pushbutton switches are designed to withstand impacts of significant force. The main switch body and button are created by using rugged stainless steel with front mount styling. The bezel protrudes a maximum of 0.10" (2.5mm) from the front panel, including sealing washer. The low profile makes it difficult for vandals to pry the switch from its mounting. Panel thickness: .06" - .3" (1.5 to 8). Panel sealed to IP67. All measurements in inches (mm).

Mfg. Part No.	Contacts	Contact Arrangement	Stock No.	Price Each 1-9
● 76-9510/530004	Silver	SPDT-DB	31C7636	35.89
● 76-9510/810	Enhanced Gold	DPDT-DB	31C7637	53.90

(68324)

VANDAL-PROOF LATCHING ACTION SWITCHES

RoHS Compliant Available

SCHURTER
ELECTRONIC COMPONENTS

Standard



Ring Illuminated

Features:

- The new MSM LA has a push-on push-off latching function
- In the OFF state, the actuator position protrudes; in the ON state, it is depressed
- This provides a user-friendly actuating function and also prevents inadvertent switching, e.g. caused by objects leaning on the switch
- The new MSM DP switch is designed with two separate switching contacts and may thus be used as

➔ CONTINUED ➔

SWITCHES – PUSHBUTTON VANDAL RESISTANT

VANDAL-PROOF LATCHING ACTION SWITCHES (CONT.)

- normally open, normally closed or as change-over
- Point and ring illuminated versions in different colors are available
- IP67 sealed

Specifications:

- Contact rating: MSM DP 3A at 250 VAC and 5A at 125 VAC MSM LA 12A at 30VDC or 250VAC
- Circuitry: MSM DP DPST; MSM LA SPST
- Temperature range: -25°C to +85°C

MSM SINGLE-POLE MOMENTARY ACTION SWITCHES

Mfg. Part No.	Current (A)	Circuitry	Dia. (mm)	Illumination	Stock No.	Price Each	
						1-9	10-24
1241.6621.1180000	5	SPST	19	Standard	64M3845	14.69	13.61
1241.6624.1181000	5	SPST	19	Red Ring	64M3846	41.92	38.85
1241.6631.1180000	5	SPST	22	Standard	64M3847	15.80	14.65
1241.6634.1181000	5	SPST	22	Red Ring	64M3848	43.56	40.38

MSM DP DOUBLE-POLE MOMENTARY ACTION SWITCHES

1241.6921.1120000	5	DPST	19	Standard	66M4577	16.60	15.39
1241.6924.1121000	5	DPST	19	Red Ring	66M4582	41.92	38.85
1241.6924.1122000	5	DPST	19	Green Ring	66M4583	41.92	38.85
1241.6924.1124000	5	DPST	19	Blue Ring	66M4584	44.89	41.61
1241.6931.1120000	5	DPST	22	Standard	66M4585	17.86	16.55
1241.6934.1121000	5	DPST	22	Red Ring	66M4590	43.56	40.38
1241.6934.1124000	5	DPST	22	Blue Ring	66M4591	46.67	43.26
1241.6961.1120000	5	DPST	30	Standard	66M4592	25.29	23.44
1241.6964.1121000	5	DPST	30	Red Ring	66M4596	49.57	45.94
1241.6934.1122000	5	DPST	30	Green Ring	77M9419	45.74	42.39
1241.6964.1122000	5	DPST	30	Green Ring	66M4597	49.57	45.94

MSM LA SINGLE-POLE LATCHING ACTION SWITCHES

1241.6821.1120000	12	SPST	19	Standard	66M4569	19.16	17.75
1241.6824.1121000	12	SPST	19	Red Ring	66M4570	43.74	40.54
1241.6824.1122000	12	SPST	19	Green Ring	66M4571	45.93	42.57
1241.6824.1124000	12	SPST	19	Blue Ring	66M4572	46.85	43.42
1241.6831.1120000	12	SPST	22	Standard	66M4573	20.60	19.10
1241.6834.1121000	12	SPST	22	Red Ring	66M4574	45.45	42.13
1241.6834.1122000	12	SPST	22	Green Ring	66M4575	45.45	42.13
1241.6834.1124000	12	SPST	22	Blue Ring	66M4576	48.70	45.14

(106371)

SWITCHES (CONT.)



Fig. 9



Fig. 10



Fig. 11



Fig. 13



Fig. 14



Fig. 15



Fig. 16



Fig. 17



Fig. 21



Fig. 22

VANDAL-PROOF SWITCHES

Piezo, capacitive and electro-mechanical switches are for heavy-duty use in highly exposed areas and extreme environments. Piezo types meet MIL STD 202 and European Railway Standards, Ex type for explosion-proof environments. Seal (IP Rating) IP67, except MCS19 series which is IP65 (switching unit). Lifetime >20 x 10⁶. Operating temperature: -20°C +60°C. Panel hole mounting dimensions (mm) indicated by series. All switches are CE certified.

M16 PIEZO PLASTIC — FET OUTPUT

Mfg. Part No.	Fig.	Actuation	Terminals	Stock No.	Price Each
					1-14
1241.2356	1	Pulse	Faston	05M2319	20.86

M16 PIEZO — FET OUTPUT

1241.2411.8	2	Pulse	Pins (Faston Available)	88K2104	31.92
1241.2415.8+	3	Pulse	Pins (Faston Available)	32C4648	56.11

M16 PIEZO TACTILE — FET OUTPUT

1241.5200.8.093	4	Pulse	Wire (210mm)	88K1315	25.45
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M16 CSE WITH RED LED — CAPACITIVE, NPN TRANSISTOR

1243.1318.1.1	5	Momentary	Wire (210mm)	88K1332	83.29
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M19 PIEZO — FET OUTPUT

1241.3123	6	Pulse	Pins	32C4714	38.70
1241.5003*	7	Pulse	Faston	05M2321	29.50

M22 PIEZO — FET OUTPUT

1241.3008	8	Pulse	Pins (Faston Available)	32C4686	47.32
1241.3020†	9	Pulse	Pins (Faston Available)	88K1314	35.18

M24 PIEZO WITH RED/GREEN 24V LEDs — FET OUTPUT

1241.3010	10	Pulse	Wire (210mm)	32C4687	128.44
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M27 PIEZO WITH RED/GREEN 24V LEDs — FET OUTPUT

1241.3011	11	Pulse	Wire (210mm)	32C4688	131.14
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M30 PIEZO — FET OUTPUT

1241.3012	13	Pulse	Pins (Faston Available)	88K1313	106.73
1245.3122.221*‡	21	Momentary	Wire Leads	05M2323	43.27
1241.6403*‡	22	Momentary	Wire Leads	10J1561	72.19

MCS19 WITH ELECTROMECHANICAL CONTACTS**

1241.2800*	14	Momentary	Pins (Solder Aid or Clip Available)	18C9112	10.14
1241.2858*	15	Momentary	Pins (Solder Aid or Clip Available)	05M2320	16.42

SWA SERIES VOLTAGE SELECTOR SWITCHES

SWA series 2-position voltage selector switch available in panel mount or PCB versions. Both feature series-parallel connections and are easily set by screwdriver or coin. Rated: 6.3A/23–50V. Black thermoplastic socket housing, rated UL94V-0. Meet standards: IEC/EN 61058-2-5, UL 508, CSA C 22.2/55. UL recognized, CSA certified, VDE approved, SEV approved, SEMKO approved.

Mfg. Part No.	Fig.	Mounting	Terminals	Stock No.	Price Each
					1-9
0033.4504	16	Panel	Solder	90B3254	4.60
0033.4601	17	PCB	Pins	90C1166	4.60

» CONTINUED »

SWITCHES



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8

» CONTINUED »

SWITCHES – PUSHBUTTON VANDAL RESISTANT • SWITCHES – REED

SWITCHES (CONT.)

Mfg. Part No.	Fig.	Series	Actuator	Mounting	Switching Voltage/Current	Stock No.	Price Each
● 1241.1002	18	MTG 1/2	Short	PCB	24VDC/50mA	23B5870	2.05
● 1241.1022	18	MTG 1/2	Long	PCB	24VDC/50mA	23B6156	2.05

+Explosion-proof, meets EN standards for intrinsic safety; *Lifetime is >10 x 10⁶. **Mfg. part no. 1241.2858 is point illuminated with Red/Green LED. † With 24V Red LED. ‡ With electromechanical contacts. (69563)

VANDAL-PROOF MSM SWITCHES



- Stainless steel housing and actuator
- Flat construction of 1.7mm provides nearly flush mounting to the panel surface
- Quick-connect terminals
- SPST-NO+SPST-NC contacts
- Momentary switching action

MSM series switches are built for tough environments where the switch can be subject to heavy use or impact. Ideal for use in equipment exposed to liquid spills, drips, leaks or wash-downs. Actuating force: 3.7N. Actuating travel: 0.8mm. Operating temperature: -25°C to +85°C. IP 67 degree of protection. Shock resistance according to DIN EN 50102 of IK 06 for 16mm mounting diameter and IK 07 for 19 and 22mm mounting diameters.

NON-ILLUMINATED

Mfg. Part No.	Mounting Hole Dia. (mm)	Current Rating	Stock No.	Price Each
● 1241.6611.1110000	16	0.1A	88K2105	14.12
● 1241.6621.1110000	19	100mA	73J8448	14.66
● 1241.6622.1110000	19	100mA	73J8451	22.31
● 1241.6631.1110000	22	100mA	88K1324	16.50
● 1241.6632.1110000	22	100mA	88K1325	24.46
● 1241.6612.1120000	16	5A	73J8444	20.46
● 1241.6621.1120000	19	5A	73J8449	13.58
● 1241.6622.1120000	19	5A	73J8452	21.48
● 1241.6631.1120000	22	5A	73J8464	15.34
● 1241.6611.1130000	16	10A	88K1316	14.12
● 1241.6612.1130000	16	10A	73J8447	21.25
● 1241.6621.1130000	19	10A	88K1317	14.79
● 1241.6622.1130000	19	10A	88K1318	22.51
● 1241.6631.1130000	22	10A	73J8465	16.35
● 1241.6632.1130000	22	10A	73J8468	24.24

GREEN POINT ILLUMINATION

● 1241.6623.1112000	19	100mA	88K1320	26.81
● 1241.6633.1112000	22	100mA	88K1326	27.50
● 1241.6623.1122000	19	5A	73J8457	25.56
● 1241.6633.1122000	22	5A	88K1328	26.48
● 1241.6623.1132000	19	10A	88K1322	26.81
● 1241.6633.1132000	22	10A	88K1330	27.50

GREEN RING ILLUMINATION

● 1241.6624.1122000	19	5A	73J8462	40.70
● 1241.6634.1122000	22	5A	73J8476	42.30

RED POINT ILLUMINATION

● 1241.6623.1111000	19	100mA	88K1319	26.81
● 1241.6623.1121000	19	5A	88K1321	25.79
● 1241.6633.1121000	22	5A	88K1327	26.48
● 1241.6623.1131000	19	10A	73J8458	26.57
● 1241.6633.1131000	22	10A	88K1329	27.50

RED RING ILLUMINATION

● 1241.6624.1111000	19	100mA	88K1323	42.63
● 1241.6624.1121000	19	5A	73J8461	40.70
● 1241.6634.1121000	22	5A	88K1331	42.68

(83998)



Current Order Status & History

Check the status of your current order or access past orders from our website under MY ACCOUNT eSuite. Log in or register today.

(148881)

MOLDED DRY REED SWITCHES



Gull Wing



J-Lead

- 5W power
- Rugged encapsulation
- SPST-NO contacts

- Actuation by electromagnetic, permanent magnet or combination of both
- Tape & reel packaging

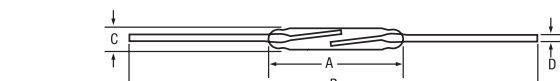
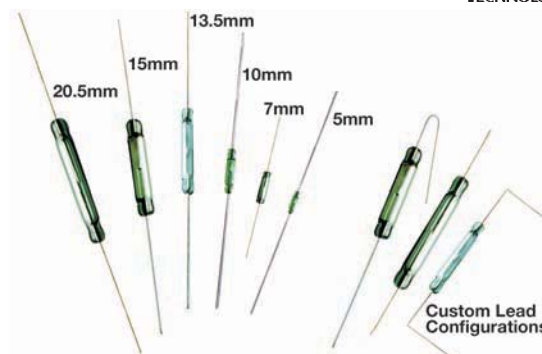
Operating Range (AT)	25 to 50	Switched Current (VDC max.)	350
Release Range (AT)	5 to 45	Carrying Current (A max.)	0.5
Switched Power (W max.)	5	Contact Resist. (Ω Initial max.)	160
Switched Voltage (VDC max.)	140	Insulation Resistance (M Ω min.)	10 ⁹

Operating temperature: -40°C to +125°C. Shock withstand: 10G. Vibration withstand: 100G. Custom operating ranges available; go online or call Newark.

Mfg. Part No.	Ampere Turns ON	Termination	Stock No.	Tape Cut Price Each		
● CT05-1535-G1	15-35	Gull Wing	65K1023	4.09	3.45	2.89
● CT05-1535-J1	15-35	J-Lead	78H1413	4.24	3.58	3.00
● CT05-3050-J1	30-50	J-Lead	65K1025	4.24	3.58	3.00

(78007)

DRY REED SWITCHES



- Contact layers: gold, sputtered ruthenium
- Superior glass-to-metal seal and blade alignment
- Hermetically sealed in a gas-filled envelope
- Life expectancy of at least 10 million operations

SPST type have normally open contacts and contain two magnetically actuated reeds. Switches are double ended and may be actuated by an electromagnet, a permanent magnet, or a combination of both. Additional versions in stock. Operate ranges to customer specifications as well as preformed leads are available; go online or call.

MICRO DRY-REEDS

Mfg. Part No.	Amp. Turns (On)	Current (A)	Switching Voltage (VDC)	Power (W)	Stock No.	Price Each		
● RI-23A*	18-32	0.5	200	10	65K1045	3.32	2.83	2.41
● RI-23AA*	14-23	0.5	200	10	65K1046	3.32	2.83	2.41
● RI-23AAA*	8-16	0.5	200	10	65K1047	1.36	1.16	0.99
● RI-23B*	28-52	0.5	200	10	65K1048	1.16	0.99	0.84
● RI-23C*	46-70	0.5	200	10	65K1049	1.16	0.99	0.84
● RI-25AA	14-23	1	200	15	65K1051	5.09	4.34	3.70
● RI-25C	46-70	1	200	25	65K1054	5.09	4.34	3.70
● RI-46A	15-28	1	200	30	65K1063	1.94	1.66	1.41
● RI-46B	24-51	1	200	40	65K1065	2.41	2.06	1.75
● RI-48A	15-28	1	200	70	65K1067	1.94	1.66	1.41
● RI-48B	24-51	1	200	70	65K1068	1.71	1.46	1.24
● RI-48C	46-70	1	200	70	65K1069	1.71	1.46	1.24

CLOSE DIFFERENTIAL MICRO DRY-REEDS

● RI-26A	18-32	1	200	15	65K1055	2.02	1.73	1.47
● RI-26AA	14-23	1	200	15	65K1056	5.09	4.34	3.70
● RI-26B	28-52	1	200	20	65K1057	2.02	1.73	1.47

PICO DRY-REEDS

● RI-27A	20-34	0.5	200	10	65K1058	1.76	1.50	1.28
● RI-27AAA	10-19	0.5	180	10	65K1060	3.32	2.83	2.41
● RI-29A+	20-34	1	200	20	65K1061	1.76	1.50	1.28

➔ CONTINUED ➔

SWITCHES – REED

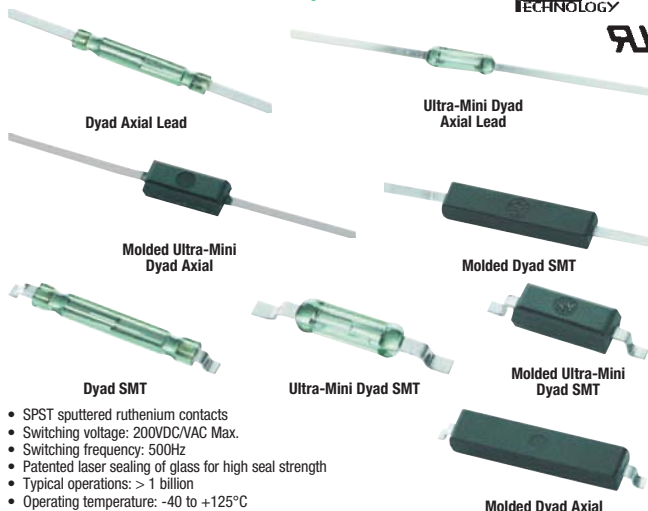
DRY REED SWITCHES (CONT.)

ULTRA-MINIATURE DRY-REEDS

Mfg. Part No.	Amp. Turns (On)	Switching			Stock No.	Price Each		
		Current (A)	Voltage (VDC)	Power (W)		1-24	25-49	50-99
● RI-60GP1020	10-20	0.5	200	10	35K3223	1.71	1.46	1.24
● RI-60GP1520	15-20	0.5	200	10	34K9823	3.32	2.83	2.41
● RI-70GP0715	7-15	0.5	170	10	35K4864	3.19	2.72	2.32
● RI-80GP0515	5-15	0.35	200	5	36K7598	5.83	4.97	4.23
● RI-90GP1020*	10-30	0.4	175	5	34K9825	4.92	4.20	3.57

*Contact layers: gold, plated ruthenium; +Contact layers: gold, copper, sputtered ruthenium (72141)

DYAD® MAGNETIC DRY REED SWITCHES



- SPST sputtered ruthenium contacts
- Switching voltage: 200VDC/VAC Max.
- Switching frequency: 500Hz
- Patented laser sealing of glass for high seal strength
- Typical operations: > 1 billion
- Operating temperature: -40 to +125°C

Hermetically sealed contacts also available; go online or call. Axial versions sold as each; SMT versions are on tape & reel.

SPECIFICATIONS

Series	Switching Voltage (VDC)	Switching Current (A)	Carry Current (A)	Contact Resist. (mΩ)	Contact Power (VA)
DYAD (FR)	200	0.5	1.5	150	10
DYAD (CM15)	200	0.5	1.5	150	10
Ultra Mini DYAD (UM)	175	0.25	0.5	120	5
Ultra Mini DYAD (CM5)	175	0.25	0.5	120	5

DYAD™ AXIAL

Mfg. Part No.	Mounting	Operate @ (Min./Max.)	Stock No.	Price Each		
				1-24	25-49	50-99
● FR2S2030	Axial	20-30	64K2265	1.02	0.91	0.87
● FR2S2025	Axial	20-25	64K2264	1.20	1.06	1.01

ULTRA-MINI DYAD™ AXIAL

● UM2S1015	Axial	10-15	01J1257	2.11	1.87	1.78
● UM2S1030	Axial	10-30	01J1259	1.09	0.96	0.92

MOLDED ULTRA-MINI DYAD™ AXIAL

● CM5S1020	Axial	10-20	16J1687	2.15	1.90	1.82
● CM5S2025	Axial	20-25	16J1690	2.33	2.06	1.96

MOLDED DYAD™ AXIAL

● CM15S1015	Axial	10-15	81H3323	1.33	1.18	1.12
● CM15S1020	Axial	10-20	64K2259	1.24	1.10	1.05
● CM15S1030	Axial	10-30	16J1676	1.24	1.10	1.05
● CM15S1520	Axial	15-20	16J1677	1.33	1.18	1.12

DYAD™ SMT

Mfg. Part No.	Mounting	Operate @ (Min./Max.)	Stock No.	Tape Cut Price Each		
				1-24	25-49	50-99
● FR2024	SMT	10-15	42B094	1.33	1.18	1.12
● FR2259	SMT	10-20	64K2267	1.28	1.14	1.08
● FR2025	SMT	15-20	42B095	1.33	1.18	1.12
● FR2026	SMT	20-25	42B096	1.33	1.18	1.12

ULTRA-MINI DYAD™ SMT

● UM2315	SMT	10-20	01J1263	2.04	1.81	1.72
● UM2319	SMT	10-15	01J1264	2.22	1.96	1.87
● UM2376	SMT	10-30	01J1267	1.96	1.73	1.65
● UM2378	SMT	20-25	01J1268	1.33	1.18	1.12

▶ CONTINUED ▶

DYAD® MAGNETIC DRY REED SWITCHES (CONT.)

MOLDED ULTRA-MINI DYAD™ SMT

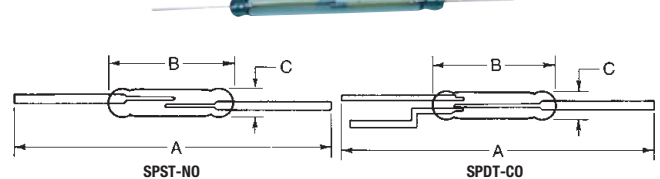
Mfg. Part No.	Mounting	Operate @ (Min./Max.)	Stock No.	Price Each		
				1-24	25-49	50-99
● CM5-2315	SMT	10-20	16J1682	2.78	2.46	2.35

MOLDED DYAD™ SMT

● CM15-2024	SMT	10-15	16J1667	1.33	1.18	1.12
● CM15-2025	SMT	15-20	16J1668	1.33	1.18	1.12
● CM15-2249	SMT	15-25	16J1670	1.24	1.10	1.05

(73661)

MAGNETIC REED SWITCHES AND MAGNETS



SWITCHES

Switches are activated by a magnetic field from either a magnet or coil. Contacts are hermetically sealed in inert gas to provide long life with stable electrical and operating characteristics. NO = Normally Open; CO = Changeover. Combination of switching voltage and current should not exceed wattage rating.

Mfg. Part No.	Contacts	Pull-In Amp Turns	Power (W)	Switching Volt. (VDC)	Stock No.	Price Each
● DRR-129 42-83	SPST-NO	42-83	100	400	50B3784	4.79
● DRR-129 62-68	SPST-NO	62-68	100	400	97B0871	4.87
● DRR-129 67-73	SPST-NO	67-73	100	400	50B3783	3.84
● DRR-129 72-78	SPST-NO	72-78	100	400	50B3785	4.87
● DRR-DTH	SPDT-CO	50-80	30	500	94B5558	16.18
● DRR-DTH 75-80	SPDT-CO	75-80	30	500	33F1080	16.18
● DRT-DTH	SPDT-CO	50-80	50	500	33F1081	22.17
● DRT-DTH 65-80	SPDT-CO	65-80	50	500	65H6458	22.52
● MARR-2	SPST-NO	12-38	10	200	44F8357	2.57
● MARR-5	SPST-NO	17-38	10	1000	94B5551	3.33
● MDCG-4	SPST-NO	12-38	10	200	50F7985	1.00
● MDRR-6	SPST-NO	17-38	10	200	94B1690	1.46
● MDRR-DT	SPDT-CO	15-30	5	175	94B5552	4.20
● MDRR-DT 25-30	SPDT-CO	25-30	5	175	88F2984	4.20
● MDRR-DT 15-20	SPDT-CO	15-20	5	175	24C6463	4.27
● MDRR-DT 20-35	SPDT-CO	20-35	5	175	34C2416	4.27
● MDSR-4-12-23	SPST-NO	12-23	10	200	88F5171	1.00
● MDSR-4 22-38	SPST-NO	22-38	10	200	01C1811	1.02
● MDSR-7	SPST-NO	10-25	10	200	50F7984	1.13
● MITI-3 6-10	SPST-NO	6-10	10	170	50B3790	1.92
● MITI-3V1	SPST-NO	6-15	10	170	95H6901	1.95
● MLRR-4	SPST-NO	17-38	20	200	87F2919	1.21
● MRPR-8	SPST-NO	22-43	50	250	95F5875	2.12

MAGNETS

These interchangeable magnets are for use with above reed switches. For proper selection, use dimensions and A.T. range as a guide. Magnet should be positioned parallel to the switch for proper activation. Not UL Recognized

Mfg. Part No.	Dimensions	Gauss at Pole Reference	Pull-In Amp Turns	Stock No.	Price Each
● 315	0.12 Diameter/0.59"	1000	10-38	10M8484	2.11 1.79
● H31	0.062 Square" x 0.500"	1300	10-38	33F1090	1.34 1.14
● H32	0.19 Square" x 1.00"	1400	10-38	33F1091	3.40 2.89
● H33	0.12 Square" x 0.750"	1200	10-38	33F1092	1.85 1.57
● H34	0.24 Square" x 1.00"	1300	10-68	33F1093	3.86 3.28
● H36	0.182 Diameter/1.00"	1600	10-68	92F2576	2.24 1.91
● 420	0.15 Diameter/0.78"	1150	10-38	10M8486	1.81 1.53
● 625	0.23 Diameter/0.98"	1500	10-68	10M8502	5.11 4.34

(5218)

TechCast® Product Training

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(148857)

SWITCHES – ROCKER

C&K 7000 SERIES SNAP-IN ROCKER SWITCHES

Fig. 1
Rocker w/FrameFig. 2
Lever w/Frame**C&K**

Just Added

Specifications:

- Contact rating: 5A @ 120VAC or 28VDC; 2A @ 250VAC
- Operating temperature: -30°C to +85°C
- Actuator & bezel: Black nylon
- Housing: Stainless steel
- Case: UL 94V-0
- End contact: Coin silver, silver-plated
- Center contact & terminals: copper alloy, silver-plated, epoxy seal
- Mounting bracket: Stainless steel
- Mounting hole: 0.5" (12.70) x 0.6" (15.24)
- On = Maintained action; (On) = Momentary action

Actuator & bezel: nylon, black. Housing: stainless steel. Case: UL 94V-0. End contact: coin silver, silver-plated. Center contact & terminals: copper alloy, silver-plated, epoxy seal. Mounting bracket: stainless steel. Mounting hole: 0.5" (12.70) x 0.6" (15.24). (.) indicates momentary action.

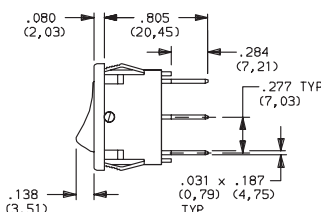
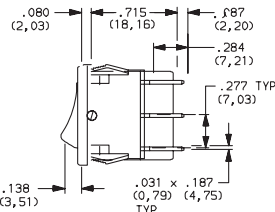
Mfg. Part No.	Fig.	Circuitry	Action	Stock No.	Price Each		
					1-24	25-99	100-249
● 7101J51ZQE22	1	SPDT	On-None-On	21F778	5.89	5.72	5.21
● 7105J51ZQE22	1	SPDT	(On)-Off-(On)	21F780	6.71	6.52	5.94
● 7201J51ZQE22	1	DPDT	On-None-On	21F783	7.84	7.61	6.93
● 7203J51ZQE22	1	DPDT	On-Off-On	21F784	8.77	8.52	7.76
● 7205J51ZQE22	1	DPDT	(On)-Off-(On)	21F785	8.77	8.52	7.76
● 7101J61ZQE22	2	SPDT	On-On	21F788	5.89	5.72	5.21
● 7103J61ZQE22	2	SPDT	On-Off-On	96F1712	11.56	10.30	8.13
● 7105J61ZQE22	2	SPDT	(On)-Off-(On)	21F790	6.71	6.52	5.94
● 7201J61ZQE22	2	DPDT	On-On	21F793	7.84	7.61	6.93
● 7203J61ZQE22	2	DPDT	On-Off-On	96F1714	8.77	8.52	7.76
● 7205J61ZQE22	2	DPDT	(On)-Off-(On)	96F1715	8.77	8.52	7.76
● 7101J1AQE2	1	SPDT	On-None-On	09C4610	6.67	6.40	4.94
● 7101J1ZQE2	1	SPDT	On-None-On	21F738	6.16	5.91	4.56
● 7105J2ZQE2	2	SPDT	(On)-Off-(On)	21F750	7.80	7.49	5.78
● 7101J3ZQE2	1	SPDT	On-None-On	21F758	10.54	9.39	7.42
● 7201J3ZQE2	1	DPDT	On-None-On	21F763	9.10	8.74	6.75
● 7203J3ZQE2	1	DPDT	On-Off-On	21F764	15.71	13.99	11.05
● 7103J1ZQE2	1	SPDT	On-Off-On	01P3162	5.87	5.70	5.19
● 7101J1AVZQE2	1	SPDT	On-None-On	09C4614	5.94	5.77	5.25
● 7301J11ZQE22	1	3PDT	On-None-On	09C7894	13.36	12.98	11.82
● 7105J3ZQE2	1	SPDT	(On)-Off-(On)	21F760	7.68	7.37	5.69
● 7103J51ZQE22	1	SP3T	On-Off-On	21F779	7.50	7.20	5.56
● 7108J51ZQE22	1	SPDT	On-Off-(On)	21F782	7.80	7.49	5.78
● 7107J61ZQE22	2	SPDT	On-Off-(On)	96F1713	7.80	7.49	5.78
● 7108J61ZQE22	2	SPDT	On-Off-(On)	98F6462	7.80	7.49	5.78
● 7101J1ABE2	1	SPDT	On-None-On	09C4606	5.74	5.57	5.08
● 7107J51ZQE22		SPDT	On-Off-(On)	21F781	7.80	7.49	5.78
● 7201J1AQE2		DPDT	On-None-On	50B9314	8.20	7.82	7.50
● 7205J3ZQE2		DPDT	(On)-Off-(On)	21F765	12.78	12.02	11.46

(4941)

C&K D SERIES MINIATURE POWER ROCKER SWITCHES



Just Added

C&KACTUATOR SHOWN IN POSITION 1
Fig. 1ACTUATOR SHOWN IN POSITION 1
Fig. 2

➤ CONTINUED ➤

C&K D SERIES MINIATURE POWER ROCKER SWITCHES (CONT.)

- D10 and D20 models rated 4A @ 125VAC; 2A @ 250VAC
- D50 and D60 models rated 10A @ 125VAC; 5A @ 250VAC
- Actuator and housing: 6/6 nylon (UL94V-2) black matte finish
- Movable contacts: coin silver, silver-plated on D50 and D60 models
- Copper, silver-plated contacts on D10 and D20 models
- Stationary contacts and terminals: copper, silver-plated
- Mounting hole: SPDT: 0.764" (19.40) x 0.508" (12.90) for 0.073" (1.85) thick panel
- DPDT: 0.764" (19.40) x 0.887" (22.53) for 0.073" (1.85) thick panel

ROCKER ACTUATOR — STANDARD Q.C. TERMINATION

Mfg. Part No.	Fig.	Circuitry	Action	Actuator Marking	Stock No.	Price Each
D102J12S215PQA	1	SPST	On-None-Off	0 -	08C5961	2.38
D102J12S217DQA	1	SPST	On-None-Off	On Off	08C5967	2.38
D502J12S215PQA	1	SPST	On-None-Off	0 -	08C6035	2.56
● D101J12S215QA	1	SPDT	On-None-On	...	08C5936	2.18
● D501J12S215QA	1	SPDT	On-None-On	...	46F1692	2.31
● D501J12S215PQF	1	SPDT	On-None-On	0 -	96F1710	2.97
● D502J12S215PQF	1	SPST	On-None-Off	0 -	93B4235	2.73
● D601J12S215PQF	2	DPST	On-On	0 -	96F1711	4.26
● D602J12S215PQF	2	DPST	On-Off	0 -	88F2269	4.02

ROCKER ACTUATOR — TWISTED Q.C. TERMINATION

● D105J12S205QA	1	SPDT	(On)-Off-(On)	...	08C5981	6.63
● D503J12S205QA	1	SPDT	On-Off-On	...	08C6041	3.84
● D508J-12S205QA	1	SPDT	On-None-(On)	...	93B2869	4.18

ROCKER ACTUATOR — RIGHT ANGLE, PCB THRU HOLE TERMINATION

● D501J12S2AHQF	1	SPDT	On-None-On	0 l	08C6012	4.61
● D501J21S2AHQF	1	SPDT	On-None-On	0 l	01P3159	4.61
● D501J12S2APQF	1	SPDT	On-None-On	0 -	96F1709	4.61
● D601J12S2A5PQF	1	DPDT	On-None-On	0 -	01P3160	4.01

LEVER ACTUATOR — STANDARD Q.C. TERMINATION

Mfg. Part No.	Circuitry	Function	Actuator Marking	Stock No.	Price Each
● D201J52S215QA	DPDT	On-On	...	08C5995	3.66

(4942)

621 SERIES SUB-MINIATURE SNAP-IN ROCKER SWITCHES

**Carling Technologies**
Innovative Designs. Powerful Solutions.

Features

- Double insulated
- Cost effective solution for appliance, audio visual, power supply, telecom markets

Specifications

- Operating Temperature: 0°C to 85°C
- Nylon base actuator
- Black rockers have no legends
- Visi rockers with "9" suffix have vertical I-O legend

8A/125VAC, 4A/250VAC. Dielectric strength: 1000V. UL recognized, CSA certified, VDE, SEV, and SEMKO approved.

BLACK ROCKER

Mfg. Part No.	Circuitry	Function	Terminals	Stock No.	Price Each
● 62111421-0-0-N	SPDT	On-None-On	0.080 Solder Lugs	79K4495	2.17 2.00
● 62112421-0-0-N	DPDT	On-None-On	0.080 Solder Lugs	76K1153	2.75 2.55
● 62112926-0-0-N	DPDT	On-None-On	0.187 Solder Lugs	76K1154	3.07 2.84
● 62116919-0-0-N	SPST	On-None-Off	0.187 Tabs	76K1158	1.83 1.69
● 62115919-0-0-N	DPST	On-None-Off	0.187 Tabs	94B6841	3.28 2.81

VISI-ROCKER SWITCHES BLACK/RED ROCKER

● 62115919-0-9-V*	DPST	On-None-Off	0.187 Tabs	76K1155	2.69 2.49
● 62115929-0-0-V	DPST	On-None-On	0.187 Tabs	76K1156	3.20 2.96
● 62116919-0-9-V*	SPST	On-None-Off	0.187 Tabs	76K1157	1.96 1.81

*I-O Imprint (vertical).
(5116)



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(148830)

SWITCHES – ROCKER

651 SERIES
SUBMINIATURE
ROCKER SWITCHES

Features:

- Sub-miniature size
- Designed to fit rectangular cutout and to provide ease of insertion
- High profile rocker & butt-action contacts
- Ideal for handheld appliances, power supplies, audio-visual & telecom applications

Specifications:

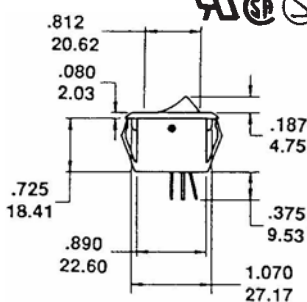
- Contact rating: 10A at 125-250VAC ¼ HP
- Dielectric strength: 1000V
- Electrical life: 100,000 cycles
- Mechanical life: 100,000 cycles
- Operating temperature: 0°C to 85°C



Mfg. Part No.	Circuitry	Action	Actuator Color	Stock No.	Price Each	
					1-24	
651122-BB-ON	SPST	On-Off	Black	07P6474	1.20	
651122-BB-1V	SPST	On-Off	Visi-Red	07P6475	1.29	
651262-BB-ON*	SPST	Off-(On)	Black	07P6476	1.42	

* 12A at 125VAC, 6A at 250VAC, ¼ HP

** 8A at 125-250VAC, ¼ HP (134234)

R/LRA SERIES CURVETTE
MINIATURE SNAP-IN
ROCKER SWITCHES

Miniature rocker switches are 1-pole, slow-make and break action, 0.250" (6.35) quick connect terminals. Ratings: 10A/125VAC, 10A/250VAC; mfg. part no. RD221 is 8A/250VAC, 12A/125VAC. Rated life 50M cycles @ rated load. Base is black; available with Visi-Rocker two-color molded with "on" indication. For neon illuminated switches: RS in type number indicates rocker is solid red; CR indicates clear red; CA indicates clear amber. UL recognized, CSA certified, VDE, SEV, and SEMKO approved; mfg. part no. RD221 is UL recognized, CSA certified.

BLACK ROCKER

Mfg. Part No.	Circuitry	Switch Function	Stock No.	Price Each		
				1-49	50-99	100-249
RA911-RB-B-0-N	SPST	On-None-Off	73K1301	3.01	2.00	1.78
RB911-RB-B-0-N	SPDT	On-None-On	73K1304	3.49	2.32	2.07
RC911-RB-B-0-N	SPDT	On-Off-On	73K1305	3.49	2.32	2.07
RD221-MB-B-0-N	SPST	Off-(On)	74K2468	4.27	2.84	2.52

VISI-ROCKERS, BLACK/RED ROCKER

RA911-VB-B-0-V	SPST	On-None-Off	73K1302	3.24	2.15	1.91
RA911-VB-B-1-V*	SPST	On-None-Off	73K1303	3.24	2.15	1.91
RA901-VB-B-9-V*	SPST	Off-None-On	50B1616	1.61	1.25	0.89

125V NEON ILLUMINATED SWITCHES

LRA211-RS-B/125N	SPST	On-None-Off	73K1000	3.95	2.63	2.34
LRA211-CR-B/125N	SPST	On-None-Off	73K0999	4.44	2.95	2.62
LRA211-CA-B/125N	SPST	On-None-Off	73K0998	4.44	2.95	2.62
LRA511-RS-B/012V	SPST	Off-None-On	20C2512	4.55	3.03	2.69

*Features On/Off legend.
(5113)

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(148833)

RR AND LRR
SERIES ROUND
ROCKER SWITCHES

Features:

- Rugged and easy to install
- Sculpted/curved rocker design
- Fits industry standard cutouts
- Ideal for appliances, vacuum cleaners, office automation, food service, audio-visual, and test and measurement applications



Specifications:

- Contact rating: 12A at 125VAC; 10A at 250VAC
- Dielectric strength: 1000V
- Electrical life: 50,000 cycles
- Mechanical life: 100,000 cycles
- Contacts: Silver-plated butt action contact mechanism

- Mounting hole: 20.2mm dia
- Circuitry: SPST, SPDT
- On = Maintained action; (On) = Momentary action
- Termination: .187 tabs

NON-ILLUMINATED

Mfg. Part No.	Circuitry	Action	Actuator Color	Features	Stock No.	Price Each	
						1-24	
RR112-BB-NN	SPST	On-Off	Black	...	07P6470	1.24	
RR212-BB-NN	SPST	Off-(On)	Black	...	07P6471	1.33	
RR412-BB-NN	SPST	On-On	Black	...	07P6472	1.51	
RR512-BB-NN	SPST	On-(On)	Black	...	07P6473	1.51	

ILLUMINATED

LRRB12-1B-JN	SPST	On-Off	Amber	125V Neon Lamp	07P6466	1.60	
LRRB12-1B-KN	SPST	On-Off	Amber	250V Neon Lamp	07P6467	1.60	
LRRB12-2B-JN	SPST	On-Off	Red	125V Neon Lamp	07P6468	1.60	
LRRB12-2B-KN	SPST	On-Off	Red	250V Neon Lamp	07P6469	1.60	

(134232)

V SERIES CONTURA
II SEALED ROCKER
SWITCHES

Illuminated

Non-illuminated

V-series snap-in rocker switches offer countless unique options including choices for ratings, circuits, colors, illuminations and symbols. Sealed front panel components are certified to IP66 and IP68, signifying complete protection against dust and prolonged spray and submersion under pressure. Recognized to UL1500 - Ignition Protection for Marine Products. LED lighted switches have 12VDC green and 12VDC amber lamps with a white square base lens. Ratings: 20A @ 12V. Dielectric strength: 2,000Vrms opposite polarity; 4,000Vrms between live parts and operator accessible surface. Terminal options: 250 QC tabs. Mounting method: snap-in. UL recognized, CSA certified, VDE, DEMKO, NEMKO, SEMKO, FIMKO and BEAB approved.

LED LIGHTED ROCKER SWITCHES

Mfg. Part No.	Circuitry	Function	Stock No.	Price Each		
				1-24	25-49	50-99
V1D2GHNB-AAC00-000	SPST	On-None-Off	76K1075	12.50	12.23	11.97
V2D2GHNB-AAC00-000	SPST	(On)-None-Off	76K1077	13.07	12.80	12.52
VLD2UHNB-AAC00-000	DPST	(On)-Off-(On)	76K1072	17.19	16.83	16.46

NON-LIGHTED (BLACK ROCKER)

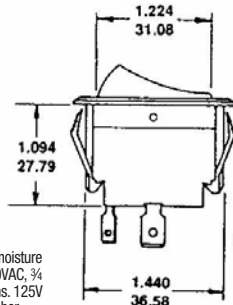
V1D2S00B-AZC00-000	SPST	On-Off	76K1076	5.95	5.83	5.70
V2D2S00B-AZC00-000	SPST	(On)-None-Off	76K1078	6.53	6.39	6.25
V6D2GHNB-AAC00-000	SPST	On-Off-On	78K0427	13.24	12.96	12.68
V6D2S00B-AZC00-000	SPST	On-Off-On	76K1079	6.70	6.56	6.42
VLD2S00B-AZC00-000	DPST	(On)-Off-(On)	76K1071	10.65	10.42	10.20
V6D2S00B-AZC00-000	SPST	Off-On-On	76K1069	10.14	9.93	9.71

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each		
			1-24	25-49	50-99
VPS	Panel Seal	76K1074	0.99	0.97	0.95
VC1-01	10-Terminal Connector/Socket	76K1067	1.20	1.18	1.15
VH1-01	Hole Plug	76K1070	1.50	1.47	1.44
VM3-01	Mounting Bracket 3 Gang	76K1073	4.50	4.41	4.31

(69506)

SWITCHES – ROCKER

HEAVY DUTY
SNAP-IN
ROCKER
SWITCHES

Constructed with a snap-in bracket system that provides front panel dust/moisture protection. Action is On-None-Off. Ratings: 15A/125VAC, 28VDC; 10A/250VAC, 3/4 H.P. Dielectric strength: 1000V. Available in lighted and non-lighted versions. 125V neon models: "RC" in mfg. part no. designates red; "AM" designates amber.

NON-LIGHTED ROCKER SWITCHES

Mfg. Part No.	Circuitry	Terminals	Stock No.	Price Each		
				1-24	25-49	50-99
● TIGA50-6S-BL-NBL	SPST	Solder	89F5565	7.02	6.51	6.04
● TIGA51-6S-BL-NBL	SPST	0.250" QC	76K1061	7.02	6.51	6.04
● TIGK50-6S-BL-NBL	DPST	Solder	76K1062	9.53	8.84	8.20
● TIGK51-6S-BL-NBL	DPST	0.250" QC	76K1063	9.53	8.84	8.20

125V NEON ILLUMINATED SWITCHES

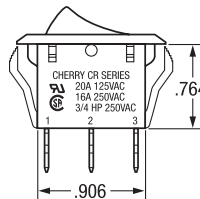
● LTILA506SBLRC-NBL	SPST	Solder	76K1036	8.86	8.21	7.62
● LTILA506SLAMNBL	SPST	Solder	76K6568	9.14	8.47	7.86
● LTILA516SBLRCNBL	SPST	0.250"QC	76K1038	8.86	8.21	7.62
● LTILA516SLAMNBL	SPST	0.250"QC	76K1037	8.86	8.21	7.62

(5117)

CR SERIES POWER
ROCKER SWITCHES

- Rugged Design with Current Switching Up to 20A
- 2-Color Molded Button Available for Maximum Visibility
- Lighted and Non-Lighted Versions
- Splash-Proof Option Available
- Ratings: 20A 125VAC/16A 250VAC (UL Listed, CSA Certified)
- 3/4HP 250VAC (UL Listed), 16A 250VAC (VDE approved)
- Temp. Range: -20°C to +85°C
- 0.250" QC Terminals
- Single Pole

Just Added



Mfg. Part No.	Action	Rocker	Actuator Markings	Stock No.	Price Each	
					1-49	
● CRE22F2BBRLE	On-Off	Red Lighted	...	01M7233	0.91	
● CRE22F2BBBNE	On-Off	Black	...	12P6271	0.89	
● CRE22F2FBBNE	On-Off	Black	0 -	01M7234	0.89	
● CRE22F4BBBNE	On-Off	Black w/Red Mold	...	01M7235	0.91	
● CRE22F4BBBNW*	On-Off	Black w/Red Mold	...	85C0981	1.27	
● CRE23F2BBBNE	On-On	Black	0 -	61H9267	0.73	
● CRE24F2HBBNE	On-Off-On	Black	I O II	01M7236	1.02	

* 13.8mm width and washable; conforms to IP42

40PC POWER ROCKER CHERRY SWITCH KIT

Mfg. Part No.	Kit Contents	Stock No.	Price Each
● WCHY-CGT	(3) CRE22F2BBBNE: Rocker Sw. Blank On/Off .250 Q.C. Term. Blk/Blk (3) CRE22F2FBBNE: Rocker Sw. (-/o) On/Off .250 Q.C. Term. Blk/Blk (3) CRE22F4BBBNE: Rocker Sw. Blank On/Off .250 Q.C. Red-Blk/Blk (3) CRE22F4BBBNE: Rocker Sw. (On-Off) On/Off .250 Q.C. Red-Blk/Blk (3) CRE22F2BBRLE: Illum. Red Rocker Sw. Blank On/Off .250 Q.C. Blk Hous. (2) GRF23N2BBBNN: SPDT Rocker Sw. Blank On/Off .250 Q.C. Blk/Blk (3) GRF22N2BBBNN: Rocker Sw. Blank On/Off .250 Q.C. Term. Blk/Blk (3) GRF22N2FBBNN: Rocker Sw. (o/-) On/Off .250 Q.C. Term. Blk/Blk (3) GRF22N2BBRLN: Illum. Red Rocker Sw. Blank On/Off .250Q.C. Blk/Blk (2) TRG22F2DBBNN: Rocker Sw. (On-Off) On/Off .250 Q.C. Blk/Blk (3) TRG22F2FBBNN: Rocker Sw. (-/o) On/Off .250 Q.C. Term. Blk/Blk (3) TRG22F2FBBNN: Rocker Sw. (o/-) On/Off .250 Q.C. Term. Red/Blk (3) TRG24F2HBBNN: Rocker Sw. (I/O/II) On/Off/On .250 Q.C. Blk/Blk (3) TRG22F2BBRLN: Illum. Red Rocker Sw. Blank On/Off .250 Q.C. Blk Hous.	08N3561	55.58

(72217)

K SERIES
ROCKER
SWITCHES

Just Added



KC Series



KF Series



KR Series



KM Series

Features:

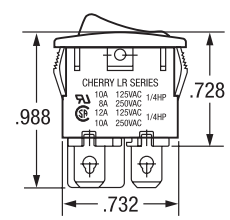
- Enclosed switch complying to IP56
- Lighted and non-lighted versions
- Multiple terminal options
- Variety of actuator and lens color options

Specifications:

- Dielectric strength: 1500VAC
- Insulation resistance: 1,000MΩ
- Initial contact resistance: 0.05Ω
- Mechanical life: 100,000cycles
- Temperature rating: -25°C to +85°C
- Termination: 0.187" Quick-connect

Mfg. Paert No.	Current (A)	Circuitry	Switch Operation	Illumination	Stock No.	Price Each	
						1-24	
● KFB2AL2RBB	10	SPST	On-Off	Illuminated	07P8622	3.97	
● KFB3AL2RBB	10	DPST	On-Off	Illuminated	07P8625	5.15	
● KFB2DNA1BBB	10	SPST	Off-(On)	Non-Illuminated	07P8624	3.51	
● KFB2ANA1BBB	10	SPST	On-Off	Non-Illuminated	07P8623	3.21	
● KFB3ANA1BBB	10	DPST	On-Off	Non-Illuminated	07P8626	4.56	
● KDH3ANA1BBB	16	DPST	On-Off	Non-Illuminated	07P8619	3.75	
● KDH3CNA1BBB	16	DPDT	On-Off-On	Non-Illuminated	07P8621	5.35	
● KDH3BNA1BBB	16	DPDT	On-On	Non-Illuminated	07P8620	5.04	
● KDH3ALA2RBB	16	DPST	On-Off	Illuminated	07P8618	4.26	
● KRE2DNA1BBB	16	SPST	Off-(On)	Non-Illuminated	07P8637	2.47	
● KRE2ANA1BBB	16	SPST	On-Off	Non-Illuminated	07P8635	2.49	
● KRE2BNA1BBB	16	SPDT	On-On	Non-Illuminated	07P8636	2.93	
● KSF2ANB1BBB	16	SPST	On-Off	Non-Illuminated	07P8638	4.89	
● KSF2BNB1BBB	16	SPDT	On-On	Non-Illuminated	07P8639	6.04	
● KCA2ALA2RBB	16	SPST	On-Off	Illuminated	07P8616	3.19	
● KCA2ANA1BBB	16	SPST	On-Off	Non-Illuminated	07P8617	2.49	
● KRE2ALA2RBB	16	SPST	On-Off	Illuminated	07P8634	2.69	
● KGC2BNB1BBB	20	SPST	On-On	Non-Illuminated	07P8628	6.09	
● KGC2CNB1BBN	20	SPDT	On-Off-On	Non-Illuminated	07P8629	6.41	
● KGC2ANB1BBB	20	DPST	On-Off	Non-Illuminated	07P8627	4.82	
● KGC3ANB1BBB	20	DPST	On-Off	Non-Illuminated	07P8630	7.35	
● KTG2ANB1BBBNNN	20	SPST	On-Off	Non-Illuminated	07P8641	3.67	
● KTG2ANB1BBNNNN	20	SPDT	On-Off-On	Non-Illuminated	07P8643	4.21	
● KTG2BNB1BBBNNN	20	SPDT	On-On	Non-Illuminated	07P8642	4.06	
● KMD2AMB7BBBNN1	21	SPST	On-Off	Illuminated	07P8631	9.14	
● KMD2CNB1BBNNNN	21	SPDT	On-Off-On	Non-Illuminated	07P8632	5.82	
● KMD3CMB8BBBGRG2	21	DPDT	On-Off-On	Illuminated	07P8633	13.87	
● KTG2ALB2BBBNN1	21	SPST	On-Off	Illuminated	07P8640	5.41	

(133585)

LR SERIES
MINIATURE
ROCKER
SWITCHES

- Black housing
- Ratings: 10A 125VAC/8A 250V
- Temperature range: -20°C to 85°C
- QC terminals: 0.187"
- Typical panel cut-out: 0.760" x 0.508"

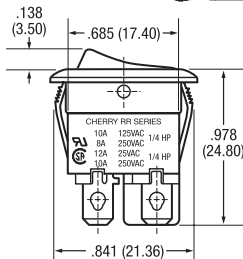
Mfg. Part No.	Circuitry	Action	Rocker	Rocker Markings	Stock No.	Price Each	
						1-49	
● LRA22H2FBBNN	SPST	On-Off	Black	0 -	01M8187	0.81	
● LRA22H2BBRLN	SPST	On-Off	Red Lighted	...	01M8186	1.00	
● LRA32H2BBBNN	DPST	On-Off	Black	...	85C0999	0.89	
● LRA32H2FBBNN	DPST	On-Off	Black	0 -	01M8189	0.89	
● LRA32H2FBGLN	DPST	On-Off	Green Lighted	0 -	88H9536	1.09	
● LRA32H2BBRLN	DPST	On-Off	Red Lighted	...	01M8188	1.09	

(72219)

SWITCHES – ROCKER

RR SERIES
MINIATURE ROUND
ROCKER SWITCHES

- Typical Panel Cut-Out: 20mm Diameter
- Actuator: Nylon 66 (Nonlighted), Polycarbonate (Lighted)
- Nylon 66 Base, Rated UL94V-2
- Silver Alloy Contacts
- Copper Alloy Movable Arm
- 0.187" (4.75mm) Quick-Connect, Tin-Plated Copper Alloy Terminals



Provide high-current switching in a compact round package. Self-locking tabs fit industry-standard panel cut-outs. Temperature range: -20°C to +85°C. Rated: 10A, 125VAC/8A, 250VAC 1/4HP (UL recognized, CSA certified); 10A (4) 250V - μ T125/55 (VDE approved).

Mfg. Part No.	Circuitry	Function	Actuator/Housing Color	Stock No.	Price Each
					1-24
● RRA22H3BBBNN	SPST	On-Off	Black/Black	01M8713	0.90
● RRA22H3FBRNN	SPST	On-Off	Red/Black*	01M8716	0.90
● RRA22H3BBGLN	SPST	On-Off/Lighted	Green/Black	12P6295	1.20
● RRA22H3BBRHN	SPST	On-Off/Lighted	Red/Black	12P6296	1.20
● RRA22H3BBRLN	SPDT	On-Off/Lighted	Red/Black	01M8714	1.20
● RRA32H3FBBNN	DPST	On-Off	Black/Black*	01M8718	1.33
● RRA32H3BBRLN	DPST	On-Off/Lighted	Red/Black	01M8717	1.60

*Have 0 - actuator marking

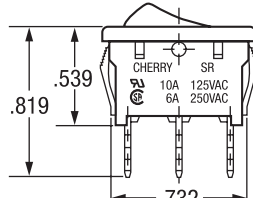
40PC POWER ROCKER CHERRY SWITCH KIT

Mfg. Part No.	Kit Contents	Stock No.	Price Each
● WCHY-RR	(4) RRA22H3BBBNN: Rocker Sw., SP, On/Off .187 Q.C. Term. Blk/Blk (4) RRA22H3FBRNN: Rocker Sw., SP, (o/-) On/Off .187 Q.C. Red/Blk (4) RRA22H3BBRHN: Illum. Sw., SP, On/Off .187 Q.C. Red/Blk, 12VDC (4) RRA22H3BBRLN: Illum. Sw., SP, On/Off .187 Q.C. Red/Blk, 125VAC (4) RRA32H3FBBNN: Rocker Sw., DP, (o/-) On/Off .187 Q.C. Blk/Blk (4) RRA32H3BBRLN: Illum. Sw., DP, On/Off .187 Q.C. Red/Blk, 125VAC	08N3563	41.66

(74793)

SR SERIES
MINIATURE
ROCKER SWITCHES

- Black housing and non-lighted rocker
- Ratings: 10A, 125VAC/6A, 250VAC
- Temperature range: -20°C to +85°C
- QC Terminals: 0.187"
- Typical panel cut-out: 0.760" x 0.508"



Mfg. Part No.	Circuitry	Action	Rocker Markings	Stock No.	Price Each
					1-49
● SRB22A2BBBNN	SPST	On-Off	...	01M9105	0.64
● SRB22A2GBBNN	SPST	On-Off	•	28H8916	0.64
● SRB22A2DBBNN	SPST	On-Off	Off On	01M9106	0.64
● SRB22A2FBBNN	SPST	On-Off	0 -	10M5262	0.66
● SRB23A2BBBNN	SPST	On-On	...	01M9107	0.70
● SRB24A2HBBNN	SPDT	On-Off-On	I O II	01M9108	0.82

(72218)

Expert technical support

Chat online to our team of engineers, or connect to them through your representative.

(148836)

DUAL MOTION SAFETY
ROCKER SWITCHES

Just Added



Features:

- Available in two standard circuit options
- Locked safety feature requires two motions from the operator to place the actuator in the

Specifications:

- Contact rating: 15A at 125VAC; 10A at 250VAC
- IP54 sealed
- Termination: Screw type, solder lug, or 0.250" spade terminals

Applications:

- Farming equipment
- Fire trucks and safety vehicles
- Lawn and garden equipment
- Large transportation buses
- Industrial and commercial equipment



ROCKER SWITCHES

Mfg. Part No.	Current (A)	Action	Color	Termination	Stock No.	Price Each
8179K21ZE50XXXX	15	On-None-Off	Yellow	Screw	07R7878	24.02
8179K21ZE51XXXX	15	On-None-Off	Yellow	Solder Lug	07R7880	24.16
8179K21ZE52XXXX	15	On-None-Off	Yellow	Quick Connect	07R7882	23.98
8179K21ZM50XXXX	15	On-None-Off	White	Screw	07R7884	23.22
8179K21ZM51XXXX	15	On-None-Off	White	Solder Lug	07R7886	23.37
8179K21ZM52XXXX	15	On-None-Off	White	Quick Connect	07R7888	23.19
8179K21ZT50XXXX	15	On-None-Off	Red	Screw	07R7890	24.66
8179K21ZT51XXXX	15	On-None-Off	Red	Solder Lug	07R7892	24.84
8179K21ZT52XXXX	15	On-None-Off	Red	Quick Connect	07R7894	24.66
8179K21ZY50XXXX	15	On-None-Off	Black	Screw	07R7896	22.18
8179K21ZY51XXXX	15	On-None-Off	Black	Solder Lug	07R7898	22.32
8179K21ZY52XXXX	15	On-None-Off	Black	Quick Connect	07R7900	22.14
8179K22ZE50XXXX	15	On-None-On	Yellow	Screw	07R7902	25.78
8179K22ZE51XXXX	15	On-None-On	Yellow	Solder Lug	07R7904	25.96
8179K22ZE52XXXX	15	On-None-On	Yellow	Quick Connect	07R7906	25.78
8179K22ZM50XXXX	15	On-None-On	White	Screw	07R7908	24.99
8179K22ZM51XXXX	15	On-None-On	White	Solder Lug	07R7910	25.13
8179K22ZM52XXXX	15	On-None-On	White	Quick Connect	07R7912	24.95
8179K22ZT50XXXX	15	On-None-On	Red	Screw	07R7914	26.46
8179K22ZT51XXXX	15	On-None-On	Red	Solder Lug	07R7916	26.61
8179K22ZT52XXXX	15	On-None-On	Red	Quick Connect	07R7918	26.43
8179K22ZY50XXXX	15	On-None-On	Black	Screw	07R7920	23.94
8179K22ZY51XXXX	15	On-None-On	Black	Solder Lug	07R7922	24.09
8179K22ZY52XXXX	15	On-None-On	Black	Quick Connect	07R7924	23.91

ROCKER SWITCHES w/PAD PRINTED ARROWS ON SIDE OF ROCKER

8179K21ZE50XXXY	15	On-None-Off	Yellow	Screw	07R7879	26.61
8179K21ZE51XXXY	15	On-None-Off	Yellow	Solder Lug	07R7881	26.75
8179K21ZE52XXXY	15	On-None-Off	Yellow	Quick Connect	07R7883	26.57
8179K21ZM50XXXY	15	On-None-Off	White	Screw	07R7885	25.78
8179K21ZM51XXXY	15	On-None-Off	White	Solder Lug	07R7887	25.92
8179K21ZM52XXXY	15	On-None-Off	White	Quick Connect	07R7889	25.74
8179K21ZT50XXXY	15	On-None-Off	Red	Screw	07R7891	27.26
8179K21ZT51XXXY	15	On-None-Off	Red	Solder Lug	07R7893	27.44
8179K21ZT52XXXY	15	On-None-Off	Red	Quick Connect	07R7895	27.22
8179K21ZY50XXXY	15	On-None-Off	Black	Screw	07R7897	24.74
8179K21ZY51XXXY	15	On-None-Off	Black	Solder Lug	07R7899	24.92
8179K21ZY52XXXY	15	On-None-Off	Black	Quick Connect	07R7901	24.74
8179K22ZE50XXXY	15	On-None-On	Yellow	Screw	07R7903	28.37
8179K22ZE51XXXY	15	On-None-On	Yellow	Solder Lug	07R7905	28.52
8179K22ZE52XXXY	15	On-None-On	Yellow	Quick Connect	07R7907	28.34
8179K22ZM50XXXY	15	On-None-On	White	Screw	07R7909	27.54
8179K22ZM51XXXY	15	On-None-On	White	Solder Lug	07R7911	27.69
8179K22ZM52XXXY	15	On-None-On	White	Quick Connect	07R7913	27.51
8179K22ZT50XXXY	15	On-None-On	Red	Screw	07R7915	29.02
8179K22ZT51XXXY	15	On-None-On	Red	Solder Lug	07R7917	29.20
8179K22ZT52XXXY	15	On-None-On	Red	Quick Connect	07R7919	29.02
8179K22ZY50XXXY	15	On-None-On	Black	Screw	07R7921	26.50
8179K22ZY51XXXY	15	On-None-On	Black	Solder Lug	07R7923	26.68
8179K22ZY52XXXY	15	On-None-On	Black	Quick Connect	07R7925	26.50

(147438)

SWITCHES – ROCKER

1500/2500 SERIES
MINIATURE ROCKER
SWITCHES

- Slow-make, slow-break action
- Mechanical life: 50,000 cycles
- Illuminated switches have lamp life of 5,000 hours minimum
- 15A, 125VAC; 10A, 250VAC
- Panel openings: Series 1500: 1.070L x 0.483" x 0.118"; series 2500: 1.075" x 0.876" x 0.118"

Miniature snap-in AC rocker switches. Quick-connect terminals. Feature rounded bezel in black matte finish with contoured black or lighted rocker lever. Lighted models feature 125V neon lamps. **11E** suffix designates black base and lever. UL recognized, CSA certified and ENEC 19 approved.

NON-ILLUMINATED SWITCHES

Mfg. Part No.	Action	Circuit	Stock No.	Price Each		
				1-24	25-49	50-99
● 1500-11E	On-None-Off	SPST	87F2624	2.07	1.77	1.47
● 1501-11E	(On)-None-Off	SPST	87F2625	3.36	2.87	2.39
● 1504-11E	On-Off-On	SPDT	87F2627	2.70	2.31	1.92
● 1506-11E	(On)-Off-(On)	SPDT	95F4248	4.38	3.74	3.11
● 2500-11E	On-None-Off	DPST	87F2628	3.36	2.87	2.39
● 2504-11E	On-Off-On	DPDT	87F2631	6.21	5.30	4.41

ILLUMINATED SWITCHES

All units feature On-None-Off action.

Mfg. Part No.	Lens	Circuit	Stock No.	Price Each		
				1-24	25-49	50-99
● 1500R11E	Red	SPST	87F2634	4.23	3.61	3.01
● 2500R11E	Red	DPST	87F2637	6.12	5.23	4.35
● 1500G11E	Green	SPST	87F2633	5.31	4.54	3.77

(4869)

1600/2600 SERIES
MINIATURE ROCKER
SWITCHES

- Slow-Make, Slow-Break Action
- Illuminated Switches Have Lamp Life of 5,000 Hours Minimum
- Mechanical Life: 50,000 Cycles
- Rated: 16A, 125VAC; 16A, 250VAC
- Panel Openings — **1600 Series**: 1.075" x 0.483" x 0.118"; **2600 Series**: 1.075" x 0.876" x 0.118"

Miniature snap-in AC rocker switches feature rectangular bezel in black gloss finish with black, white or lighted 2 face rocker lever. Illuminated models feature 125V neon lamps except **mfg. part nos. 1600R21E** and **2600A21E** which are 250V neon. For non-illuminated switches, **11E** suffix in mfg. part nos. designate black base and lever and **12E** suffix designates black base, white lever. **21E** suffix in mfg. part nos. designate white base, black lever. **-E** suffix in mfg. part nos. denotes 0.250" (6.3mm) tabs "quick-connect terminations". (On) or (Off) position status indicates momentary action. UL recognized, CSA certified, ENEC 19 approved.

NON-ILLUMINATED SWITCHES

Mfg. Part No.	Action	Circuit	Stock No.	Price Each			
				1-24	25-49	50-99	100-249
● 1600-11E	On-None-Off	SPST	23F001	2.01	1.72	1.45	1.26
● 1604-11E	On-Off-On	SPDT	23F004	3.14	2.69	2.27	1.97
● 2600-11E	On-None-Off	DPST	23F032	3.37	2.89	2.44	2.12
● 2602-11E	On-None-On	DPDT	23F033	5.72	4.91	4.14	3.59
● 2606-11E	(On)-Off-(On)	DPDT	94F8150	6.94	5.96	5.02	4.35
● 2604-11E	On-Off-On	DPDT	23F034	5.05	4.34	3.66	3.17
● 2602-12E	On-None-On	DPDT	46F1839	4.44	3.81	3.22	2.79

ILLUMINATED SWITCHES

All switches feature On-None-Off action.

Mfg. Part No.	Lens Color	Circuit	Stock No.	Price Each			
				1-24	25-49	50-99	100-249
● 1600R11E	Red	SPST	44F1243	4.99	4.29	3.62	3.13
● 1600R21E	Red	SPST	46F1835	5.40	4.64	3.91	3.39
● 2600A11E	Amber	DPST	44F1250	6.47	5.56	4.69	4.06
● 2600A21E	Amber	DPST	95F4250	6.47	5.56	4.69	4.06
● 2600G11E	Green	DPST	44F1251	6.01	5.16	4.35	3.77
● 2600R11E	Red	DPST	44F1252	6.47	5.56	4.69	4.06

(4870)

1600H/2600H SERIES
HIGH-INRUSH MINIATURE
ROCKER SWITCHES

- Rated: 22A, 125VAC; 16A, 250VAC; 10A, 14V(T)
- On-None-Off Lever Action
- Mechanical Life: 50,000 Cycles Minimum
- Panel Openings: Series 1600 1.079L x 0.486W x 0.118"D (27.40 x 12.34 x 2.99); Series 2600H (Rectangular Cutout): 1.079L x 0.880W x 0.118"D (27.40 x 22.35 x 2.99)

Switches are designed to handle high-inrush currents up to 100A peak inrush for 10 milliseconds at 125VAC for 10,000 cycles minimum. Available in illuminated and non-illuminated snap-in models. Illuminated models feature 125V neon lamps. "H" in type number indicates black gloss base and lever. "HM" in mfg. part no. indicates black matte base and lever. UL recognized, CSA certified and ENEC 19 approved.

NON-ILLUMINATED SWITCHES

Mfg. Part No.	Circuitry	Stock No.	Price Each		
			1-49	50-99	100+
● 1600H11E	SPST	46F1854	2.15	1.92	1.59
● 1600HM11E	SPST	46F1855	2.05	1.83	1.52
● 2600H11E	DPST	46F1439	2.19	1.96	1.62
● 2600HM11E	DPST	46F1857	3.06	2.73	2.26

ILLUMINATED SWITCH WITH RED LIGHT & BLACK BASE

● 2600HR11E	DPST	46F1858	4.76	4.25	3.51
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(4871)

NEW GENERATION ROCKER SWITCHES

- Ratings: 15A @ 125VAC, 10A @ 250VAC, 15A @ 28VDC
- Slow-Make/Slow-Break Contact Mechanism
- Mechanical Life: 250,000 Operations Min.
- Terminals: Standard 0.250" Spade
- Silver-Plated Copper Alloy
- Dielectric: 1,000V_{RMS} Min
- Gang Mounting System
- Pad-Printed Legends on Lens Rocker and Bezel

Full-size rugged switches feature ergonomic design and are sealed to resist splashing and dust. () in table denotes momentary contact. Circuits available: SPST, SPDT, DPST, and DPDT, maintained and momentary action. Switches have thermoplastic base and rocker. Units featured are black frame, rocker and paddle style. Illuminated switches listed have 2 14VDC incandescent lamps, except **mfg. part no. NGR25011**, which has one lamp. Standard rocker actuator is two face, matte black, and snaps on and off the switch. Fits in panel cutouts 1.734 x 0.867". *Rockers, lenses and connectors must be ordered separately.* Other colors available.

NEW GENERATION ROCKER SWITCHES, ILLUMINATED

Mfg. Part No.	Action	Stock No.	Price Each		
			1-24	25-49	50-99
● NGR25011BNAON	Off-None-On	16F8142	19.88	18.33	16.84
● NGR25481BNAAN	On-None-On	16F8143	22.97	21.19	19.46
● NGR25681BNAAN	On-Off-On	16F8141	24.62	22.71	20.86
● NGR25881BNAAN	(On)-Off-(On)	16F8144	23.22	21.42	19.68

NEW GENERATION ROCKER SWITCHES, NON-ILLUMINATED

● NGR20011BNOON	Off-None-On	16F8146	13.18	12.16	11.17
● NGR20051BNOON	(On)-Off-(On)	16F8148	15.45	14.25	13.09

NGR ROCKER ACTUATORS, BLACK

Mfg. Part No.	Description	Stock No.	Price Each		
			1-24	25-49	50-99
● 1D0000000000	No Lens	25C1398	1.23	1.13	1.04
● 2B000000000500	Lens Hole, Bottom	16F8140	1.16	1.07	0.98
● 2B000500000000	Lens Hole, Top	16F8139	1.08	1.00	0.92
● 2B000500000500	Lens Hole, Top & Bottom	16F8138	1.08	1.00	0.92

NGR SNAP-IN LENSES

Mfg. Part No.	Color	Stock No.	Price Each		
			1-24	25-49	50-99
● 28-5863	Green	16F8163	0.51	0.47	0.43
● 28-5863-2	Red	16F8162	0.44	0.40	0.37
● 28-5863-3	Amber	16F8164	0.51	0.47	0.43

NGR CONNECTOR

Mfg. Part No.	Stock No.	Price Each		
		1-24	25-49	50-99
● 28-5637-2	90B6942	1.84	1.70	1.56

(4989)

SWITCHES – ROCKER

SVR SERIES SEALED VEHICLE
ROCKER SWITCHES

- Illuminated versions have a 14V Green LED
- 50K Operations at Full Load
- 12A @ 28VDC to 10mA @ 14VDC
- IP68 sealed: complete protection from dust and water immersion

Below panel versions now come assembled with the actuators. Switches incorporate automotive styling and LED lighting in a 10-terminal design. Standard IP68 sealing on the front and back of the switch, including at the switch/connector interface. Snap-in lens rocker provides option for backlighting. Mounting hole size: 1.45 x 0.83 x 1.9" depth behind including the connector. Other circuit configurations and LED combinations available.



Below Panel Rocker



Below Panel Paddle

ROCKER ACTUATOR

Mfg. Part No.	Circuitry	Action	Illuminated	Stock No.	Price Each
					1-24
SA4SKK4GXXGXXXX	DPDT	On-None-On	Yes	08J5555	20.17
SF4SKK4GXXGXXXX	DPST	(On)-Off-(On)	Yes	08J5561	20.20
SARSXX1XXXXXX	DPDT	On-None-On	No	96H7185	14.07
SFRSXX1XXXXXX	DPDT	(On)-Off-(On)	No	96H7183	14.77

PADDLE ACTUATOR

SARSXX5XXXXXX	DPDT	On-None-On	No	08J5551	15.42
SFRSXX5XXXXXX	DPDT	(On)-Off-(On)	No	08J5559	16.17

ACCESSORIES

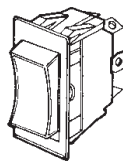
Mfg. Part No.	Description	Stock No.	Price Each	
			1-24	25-49
25-13936	Connector	25C4470	1.17	1.06
17-22145	Panel Plug	25C4467	1.34	1.21
17-22146	Gang Mount System	25C4468	1.21	1.10

(68027)

8055 SERIES SEALED
ROCKETTE® SWITCHES

- On-None-Off Action
- Rated: 15A, 125VAC; and 10A, 250VAC; 3/4hp @ 250VAC

Spade terminals: 0.250". Switches listed have black concave rocker, snap-in mounting frame. UL recognized, CSA certified. Panel opening: 1.45 x .830". Other actuator styles and illuminated versions available; go online or call for information.



8055K43Z7V



Mfg. Part No.	Circuit	Stock No.	Price Each		
			1-24	25-49	50+
8055K23Z7V	SPST	11M1846	13.07	10.53	10.14
8055K43Z7V	DPST	11M1847	17.01	13.70	13.19

(4987)

SEALED VEHICLE
ROCKER SWITCHES

Just Added



Features:

- Above panel actuator style
- Designed to meet severe environmental requirements
- IP68 sealed

Specifications:

- Contact rating: 12A at 24VDC
- Electrical life: 50,000 ops
- Mechanical life: 250,000 ops
- Operation force: 1 to 3lbs
- Operating temperature: -40°C to 85°C
- Circuits: 1- or 2-pole, 2- or 3-position
- On = Maintained action; (On) = Momentary action



Top and bottom illuminated

NON-ILLUMINATED

Mfg. Part No.	Circuitry	Action	Lens Color	Termination	Stock No.	Price Each
						1-24
SMAMXXCXXXXXX	SPST	On-None-(On)	...	Spade	07R7864	16.77
SFAMXXCXXXXXX	SPDT	(On)-Off-(On)	...	Spade	07R7855	16.77
SAAMXXCXXXXXX	SPDT	On-None-On	...	Spade	07R7841	16.77
SDAMXXCXXXXXX	SPDT	On-Off-On	...	Spade	07R7850	16.77
SMRMXXCXXXXXX	DPST	On-None-(On)	...	Spade	07R7869	22.13
SFRMXXCXXXXXX	DPDT	(On)-Off-(On)	...	Spade	07R7858	22.13
SRRMXXCXXXXXX	DPDT	(On)-On-(On)	...	Spade	07R7874	24.79
SARMXXCXXXXXX	DPDT	On-None-On	...	Spade	07R7846	22.13
SHRMXXCXXXXXX	DPDT	On-Off-(On)	...	Spade	07R7860	23.52
SDRMXXCXXXXXX	DPDT	On-Off-On	...	Spade	07R7853	22.13
STRMXXCXXXXXX	DPDT	On-On-(On)	...	Spade	07R7876	23.90
SKRMXXCXXXXXX	DPDT	On-On-On	...	Spade	07R7862	24.54

TOP ILLUMINATED ACTUATOR

SMEMLXDAXXXXXX	SPST	On-None-(On)	Amber	Spade	07R7866	25.51
SMEMKDGXXXXXX	SPST	On-None-(On)	Green	Spade	07R7865	27.62
SAEMLXDAXXXXXX	SPDT	On-None-On	Amber	Spade	07R7843	25.51

➔ CONTINUED ➔

SEALED VEHICLE ROCKER SWITCHES (CONT.)

TOP ILLUMINATED ACTUATOR

Mfg. Part No.	Circuitry	Action	Lens Color	Termination	Stock No.	Price Each
SAEMKXDAXXXXXX	SPDT	On-None-On	Green	Spade	07R7842	27.62
SMUMLXDAXXXXXX	DPST	On-None-(On)	Amber	Spade	07R7871	30.76
SMUMKXDAXXXXXX	DPST	On-None-(On)	Green	Spade	07R7870	31.43
SAUMLXDAXXXXXX	DPDT	On-None-On	Amber	Spade	07R7848	30.76
SAUMKXDAXXXXXX	DPDT	On-None-On	Green	Spade	07R7847	31.43

TOP AND BOTTOM ILLUMINATED ACTUATOR

SMKMLLFAXXAXXXX	SPST	On-None-(On)	Amber	Spade	07R7868	33.48
SMKMKFXXGXXXXX	SPST	On-None-(On)	Green	Spade	07R7867	37.08
SFKMLLFAXXAXXXX	SPDT	(On)-Off-(On)	Amber	Spade	07R7857	33.48
SFKMKFXXGXXXXX	SPDT	(On)-Off-(On)	Green	Spade	07R7856	37.08
SAKMLLFAXXAXXXX	SPDT	On-None-On	Amber	Spade	07R7845	33.48
SAKMKFXXGXXXXX	SPDT	On-None-On	Green	Spade	07R7844	37.08
SDKMLLFAXXAXXXX	SPDT	On-Off-On	Amber	Spade	07R7852	33.48
SDKMKFXXGXXXXX	SPDT	On-Off-On	Green	Spade	07R7851	37.08
SM4MLLFAXXAXXXX	DPST	On-None-(On)	Amber	Spade	07R7873	36.98
SM4MKFXXGXXXXX	DPST	On-None-(On)	Green	Spade	07R7872	40.94
SF4MLLFAXXAXXXX	DPDT	(On)-Off-(On)	Amber	Spade	07R7859	36.98
SR4MLLFAXXAXXXX	DPDT	(On)-On-(On)	Amber	Spade	07R7875	44.26
SA4MLLFAXXAXXXX	DPDT	On-None-On	Amber	Spade	07R7849	36.98
SH4MLLFAXXAXXXX	DPDT	On-Off-(On)	Amber	Spade	07R7861	42.99
SD4MLLFAXXAXXXX	DPDT	On-Off-On	Amber	Spade	07R7854	36.98
ST4MLLFAXXAXXXX	DPDT	On-On-(On)	Amber	Spade	07R7877	43.37
SK4MLLFAXXAXXXX	DPDT	On-On-On	Amber	Spade	07R7863	44.01

(147439)

EURO-LOOK ROCKER SWITCHES



- Ratings: 15A at 125VAC
- Slow-Make/Slow-Break; Butt-Action
- Standard Brass 0.250" Spade Terminals

Standard and full-size rugged rocker switches are snap-mount with matte finish and easy actuation. Designed for AC and low voltage DC applications. Featured units are sealed, with black mounting frame. Switches and actuators are black. Full and standard size switches featured have two lenses and a 14VDC bulb, except switch mfg. part nos. 8005K23, which has one lens and a 14VDC bulb; Thermostat base; thermoplastic rocker actuators. Dielectric: 1,000Vrms min. () in table denotes momentary action. Other color lens, contact, configuration and rocker versions available; go online or call. Order lenses and connector separately for illuminated switches. UL recognized, CSA certified.



FULL SIZE NON-ILLUMINATED (1.734" x 0.867" CUTOUT)

Mfg. Part No.	Circuitry	Function	Stock No.	Price Each			
				1-24	25-49	50-99	100-249
8004K20N1V2	SPDT	On-Off-On	11M1833	13.28	11.76	10.09	9.20
8004K23N1V2	SPST	On-None-Off	11M1834	11.82	10.47	8.98	8.19
8004K32N1V2	SPDT	(On)-Off-(On)	11M1835	15.76	13.95	11.97	10.92
8004K43N1V2	DPST	On-None-Off	11M1837	13.72	12.15	10.42	9.50
8004K40N1V2	DPDT	On-Off-On	11M1836	15.25	13.51	11.59	10.57
8004K52N1V2	DPDT	(On)-Off-(On)	11M1838	17.62	15.60	13.39	12.21

FULL SIZE ILLUMINATED

8005K23N31V52	SPST	On-None-Off	11M1839	20.95	18.55	15.92	14.51
8005K32N324V52	SPDT	(On)-Off-(On)	11M1840	20.34	18.01	15.45	14.09

STANDARD SIZE NON-ILLUMINATED (1.450" x 0.830" CUTOUT)

8006K43N1V2	DPST	On-None-Off	11M1842	12.18	10.78	9.25	8.44
8006K40N1V2	DPDT	On-Off-On	11M1841	14.11	12.49	10.72	9.78
8006K52N1V2	DPDT	(On)-Off-(On)	11M1843	16.15	14.30	12.27	11.19

STANDARD SIZE ILLUMINATED

8007K20N324V52	SPDT	On-Off-On	11M1844	16.33	14.46	12.41	11.31
8007K32N324V52	SPDT	(On)-Off-(On)	16F8158	16.75	14.83	12.73	11.60

FULL SIZE LENSES

Mfg. Part No.	Description	Stock No.	Price Each			
			1-24	25-49	50-99	100-249
28-3425	Green	16F8149	0.54	0.48	0.41	0.38
28-3425-2	Red	16F8150	0.51	0.45	0.39	0.35
28-3425-3	Amber	16F8151	0.51	0.45	0.39	0.35

STANDARD SIZE LENSES

28-5415	Green	16F8159	0.40	0.35	0.30	0.28
28-5415-2	Red	16F8160	0.47	0.42	0.36	0.33
28-5415-3	Amber	16F8161	0.37	0.33	0.28	0.26

➔ CONTINUED ➔

SWITCHES – ROCKER

EURO-LOOK ROCKER SWITCHES (CONT.)

CONNECTOR

Mfg. Part No.	Stock No.	Price Each			
		1-24	25-49	50-99	100-249
● 28-3426	88F2464	1.40	1.24	1.06	0.97

(4990)

MRS SERIES SUBMINIATURE ROCKER SWITCHES

Features:

- Easy snap-in mounting and industry standard dimensions
- One pole circuitry

Specifications:

- Operating temperature: 32°F to 185°F (0°C to 85°C)
- 0.187in x 0.032in (4.75mm x 0.81mm) quick connect tab termination
- Electrical life 50,000 cycles momentary, 100,000 cycles maintained
- Black actuator, black base
- (On) = Momentary on; (Off) = Momentary off

NON-ILLUMINATED

Mfg. Part No.	Circuitry	Function	Stock No.	Price Each	
				1-24	25-49
● MRS93-11BB	SPST	On-Off-On	16M2152	2.74	2.49
● MRS93-12BB	SPST	On-None-Off	16M2153	1.65	1.50
● MRS93-13BB	SPST	On-None-On	16M2154	1.69	1.54
● MRS93-14BB	SPST	On-None-(Off)	16M2155	1.96	1.78
● MRS93-15BB	SPST	On-Off-(On)	16M2156	2.37	2.15
● MRS93-16BB	SPST	(On)-None-Off	16M2157	1.91	1.74
● MRS93-17BB	SPST	(On)-Off-(On)	16M2158	2.74	2.49
● MRS93-18BB	SPST	On-None-(On)	16M2159	2.01	1.82

(89494)

FR SERIES SEALED ROCKER SWITCHES

Features:

- Sealed to IP67 standards
- Welded lamp connection and one-piece internal jumperless terminals withstand extreme shock and vibration

Specifications:

- Operating temperature: -40°C to 85°C
- 0.250" x 0.032" wide quick connect tabs
- Black bezel, black actuator
- Electrical life: 50,000 cycles momentary; 100,000 cycles maintained
- Mechanical life: 250,000 cycles min
- 12V LED for illuminated versions
- () = Momentary action

NON-ILLUMINATED

Mfg. Part No.	Circuitry	Function	Stock No.	Price Each	
				1-14	15-24
● FRN91-11BB	SPST	On-Off-On	16M1618	7.45	6.91
● FRN91-12BB	SPST	On-None-Off	16M1619	6.94	6.28
● FRN91-13BB	SPST	On-None-On	16M1620	7.75	7.02
● FRN91-14BB	SPST	On-None-(Off)	16M1621	7.75	7.02
● FRN91-15BB	SPST	On-Off-(On)	16M1622	7.45	6.91
● FRN91-16BB	SPST	(On)-None-Off	16M1623	7.57	6.86
● FRN91-17BB	SPST	(On)-Off-(On)	16M1624	7.45	6.91
● FRN91-18BB	SPST	On-None-(On)	16M1625	7.75	7.02
● FRN91-21BB	DPST	On-Off-On	16M1626	10.23	9.48
● FRN91-22BB	DPST	On-None-Off	16M1627	9.44	8.55
● FRN91-23BB	DPST	On-None-On	16M1628	10.34	9.37
● FRN91-24BB	DPST	On-None-(Off)	16M1629	10.50	9.51
● FRN91-25BB	DPST	On-Off-(On)	16M1630	10.43	9.48
● FRN91-26BB	DPST	(On)-None-Off	16M1631	10.34	9.37
● FRN91-27BB	DPST	(On)-Off-(On)	16M1632	10.64	9.85
● FRN91-28BB	DPST	On-None-(On)	16M1633	10.92	9.89

ILLUMINATED

Mfg. Part No.	Circuitry	Function	Lamp	Stock No.	Price Each	
					1-14	15-24
● FRL91-22CGA3-BB79	DPST	On-None-Off	Green/Amber	16M1615	15.75	14.59
● FRL91-23CGA3-BB79	DPST	On-None-On	Green/Amber	16M1616	15.74	14.58
● FRL91-21CGG3-BB77	DPST	On-Off-On	Green/Green	16M1614	15.75	14.59
● FRL91-27CGG3-BB77	DPST	(On)-Off-(On)	Green/Green	16M1617	15.75	14.59

➤ CONTINUED ➤

FR SERIES SEALED ROCKER SWITCHES (CONT.)

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each	
			1-24	25-49
● FR-01	Connector Housing	16M2260	1.53	1.40

(89425)

AML24/34/36 SERIES POWER ROCKER SWITCHES



Honeywell

Sensing and Control



Rectangular rocker units with black bezels. The AML24 series is 0.110" x 0.020" solder or QC terminals. The AML34/36 series switch is 0.187" x 0.020" solder or QC terminals. Illuminated versions that do not include lamp available; go online or call. UL recognized, CSA certified. Order rockers operators separately below.

NON-ILLUMINATED

Mfg. Part No.	Action	Circuitry	Contact Material	Stock No.	Price Each		
					1-14	15-24	25-49
● AML24FBA2AA01	On-On	SPDT	Silver	92B5294	15.30	14.18	13.20
● AML24GBA2AC01	On-On	DPDT	Silver	90B2597	21.89	20.78	19.68
● AML24EBA2AC05	(On)-Off-(On)	DPDT	Silver	97B0740	13.26	...	...
● AML34EBA4AC01	On-Off	DPST	Silver	23F4357	24.95	24.44	23.80

ILLUMINATED-SILVER CONTACTS

Mfg. Part No.	Action	Circuitry	Lamp Sockets	Features	Stock No.	Price Each
						1-24
● AML24FBA2AA01	On-On	SPDT	1	No Lamp Installed	85C5893	25.81
● AML24GBA2CA04	On-On-On	DPDT	2	No Lamp Installed	90B8996	36.11
● AML24GBE2DA01*	On-On	DPDT	2	28V Lamp	85C6006	48.16
● AML34FBA4AC01	On-On	DPST	1	No Lamp Installed	23F4358	28.72
● AML35FBB7AC01	On-Off	DPST	1	125VAC Lamp	92B8960	34.15
● AML36FBB4AC01	On-Off	DPST	1	125VAC Lamp	23F4359	37.95
● AML36FBB7AC01	On-Off	DPST	1	125VAC Lamp	23F4429	32.35
● AML36FBC7AC01	On-Off	DPDT	1	125VAC Lamp	38B3084	32.83

*Gold contact material

ROCKER OPERATORS

Mfg. Part No.	For Use With	Color	Stock No.	Price Each		
				1-24	25-49	50-99
● AML54-F10W	AML24/34	White	23F4461	1.99	1.82	1.68
● AML54-F10Y	AML24/34	Yellow	50F5206	2.42	2.22	2.02
● AML54-F10R	AML24/34	Red	23F4458	2.15	1.97	1.89
● AML54-F10K	AML24/34	Black	23F4457	2.42	2.22	2.02
● AML56-N10RW	AML36	White	92C8670	5.73	5.25	4.79
● AML56-N10RY	AML36	Yellow	92C8671	5.73	5.25	4.79
● AML56-N10RR	AML36	Red	98B6453	5.13	4.70	4.28
● AML56-N10RK	AML36	Black	23F4459	5.13	4.70	4.28

(68326)

GEMINI SERIES MINIATURE SWITCHES



Contact rating: gold 0.04VA at 20VDC; silver 2A at 250VAC, 5A at 125VAC. Epoxy sealed terminals. Dielectric strength: 1,000Vrms. Contact resistance: 30mΩ. -30°C to +85°C. Hardware supplied with toggle models includes 2 hex nuts, 1 lockwasher, 1 locking ring. Types with Q suffix are UL recognized, CSA certified. Wire lug terminals, silver contacts. B suffix = gold.

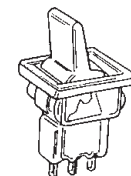


Fig. 1

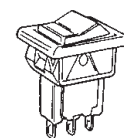


Fig. 2

LONG PC TERMINAL, PADDLE ACTUATOR, GOLD CONTACTS, FIG. 1.

Mfr. Part No.	Circuitry	Action	Stock No.	Price Each		
				1-24	25-49	50-99
A101J61ZQ00	SPDT	On-On	46F3066	5.69	5.50	5.32
A201J61ZQ00	DPDT	On-On	46F3071	8.92	8.63	8.33

LONG PC TERMINAL, ROCKER ACTUATOR, GOLD CONTACTS, FIG. 2.

Mfr. Part No.	Circuitry	Action	Stock No.	Price Each		
				1-24	25-49	50-99
● A105J1ZQ0004	SPDT	(On)-Off-(On)	84K8093	...	...	...
● A201J1ZQ0004	DPDT	On-On	76K0637	6.98	6.33	5.81
● A203J1ZQ0004	DPDT	On-Off-On	94M5031	6.26	5.55	5.05

(87065)

SWITCHES – ROCKER

TRD SERIES
ROCKER SWITCHES

Panel mount rocker uniquely fits in $\frac{1}{2}$ " round hole. Contact rating: gold 0.4VA at 20VDC, silver 3A at 125VAC or 28VDC. Contact timing: break-before-make. Dielectric strength: 500Vrms at sea level. Operating temp.: -20°C to +80°C. Case material: thermoplastic.



Just Added

GOLD CONTACTS—0.4VA at 20VDC

Mfg. Part No.	Circuitry	Action	Illumination	Stock No.	Price Each	
● TRD11D10WL	SPDT	On-None-On	Non-Illuminated	94F9972	1-24	25-49
● TRD11H10WL	SPDT	On-Off-(On)	Non-Illuminated	92F2905	13.98	13.25
● TRD21N10WL	DPDT	On-None-On	Non-Illuminated	88F3747	13.28	12.59

SILVER CONTACTS—3A at 125VAC

● TRD13D10WL04	SPDT	On-None-On	Non-Illuminated	16M2494	10.10	9.26
● TRD13D10WLLR204	SPDT	On-None-On	Illuminated	16M3846	11.58	10.98
● TRD23N10WL04	DPDT	On-None-On	Non-Illuminated	16M2495	11.53	11.06

(4704)

PRA, PRB, PRD SERIES
MINIATURE POWER
ROCKER SWITCHES

Just Added



PRASA1-16F-BB000

PRASC1-16F-BBR00

PRBSD1-16F-BB000

PRDD1-16F-BR000

Panel cutout size: A = .514" x .754" (13mm x 19.2mm). Terminal type: FASTON™ Tab. Frame and rocker color: black. Prefix PR "X" S in Alcoswitch mfg. part no. denotes single pole, prefix PR "X" D in Alcoswitch mfg. part no. denotes double pole.

Mfg. Part No.	Switch Functions	Panel Cutout Size	Contact Rating (A @ 125VAC)	Stock No.	Price Each	
● PRASA1-16F-BB000	On-Off; Opaque, Single-Color Rocker Button	A	16	89C8962	1.55	
● PRASA2-16F-BBRBR	On-Off; Opaque, Dual-Color Rocker Button	A	16	16M2465	1.38	
● PRASB2-16F-BBR00	On-Off; Opaque, w/Lamp Window, Lamp-Illuminated Rocker Button	A	16	89C8963	0.98	
● PRASD1-16F-BB000	On-On; Opaque, Single-Color Rocker Button	A	16	89C8964	1.15	
● PRASD3-16F-BB000	On-Off-On; Opaque, Single-Color Rocker Button	A	16	89C8965	1.46	
● PRASC1-16F-BBR00	On-Off; Opaque, w/LED Window, LED-Illuminated Rocker Button	A	16	89C8966	2.36	
● PRBSA1-16F-BB000	On-Off; Opaque, Single-Color Rocker Button	B	16	89C8970	1.89	
● PRBSB1-16F-BR000	On-Off; Transparent, Lamp-Illuminated Rocker Button	B	16	85C2087	2.92	
● PRDDA1-16F-BB000	On-Off; Opaque, Single-Color Rocker Button	D	16	89C8973	2.79	
● PRDD1-16F-BB000	On-On; Opaque, Single-Color Rocker Button	D	16	89C8974	3.88	
● PRDD3-16F-BB000	On-Off-On; Opaque, Single-Color Rocker Button	D	16	89C8975	5.05	

(72367)

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(146843)

R13 SERIES MINIATURE
ROCKER SWITCHES

Non-illuminated

Just Added



Illuminated

Specifications:

- Contact rating: 6A at 125VAC; 3A at 250VAC; R13-112, R13-244: 20A at 12VDC
- Maximum contact resistance: 50mΩ
- Minimum insulation resistance: 500Vdc, 100MΩ
- Dielectric strength: 1500VAC for 1 minute
- Termination: Solder lug

Features:

- Nylon frame and silver plated brass terminals
- Nylon with fibre glass base
- R13-234 snap-in mounting, easy to install switch into panel
- R13-241 screw type

NON-ILLUMINATED ROCKER

Mfg. Part No.	Current (A)	Circuitry	Actuator Color	Action	Actuator Markings	Stock No.	Price Each	
● R13-234A-05-BB-0A	6	SPST	Black	On-Off	...	03P2467	1.09	
● R13-234C-05-BB-0A	6	SPDT	Black	On-On	...	03P2468	1.18	
● R13-234D-05-BB-0A	6	SPDT	Black	On-Off-On	...	03P2469	1.09	
● R13-234I-05-BB-0A	6	SPDT	Black	(On)-Off-(On)	...	03P2470	1.17	
● R13-112A-02-BB-0A	20	SPST	Black	On-Off	...	03P2442	1.13	
● R13-112A8-02-BB-0A	20	SPST	Black	On-Off	...	03P2446	1.76	
● R13-112A-02-BB-3A	20	SPST	Black	On-Off	0 I	03P2443	1.18	
● R13-112A8-02-BB-2A	20	SPST	Black	On-Off	0 -	03P2447	1.80	
● R13-112F-02-BB-0A	20	SPST	Black	(On)-Off	...	03P2455	1.18	
● R13-112F8-02-BB-0A	20	SPST	Black	(On)-Off	...	03P2457	1.80	
● R13-112F-02-BB-3A	20	SPST	Black	(On)-Off	0 I	03P2456	1.05	
● R13-112F8-02-BB-2A	20	SPST	Black	(On)-Off	0 -	03P2458	1.84	
● R13-112A5-02-WW-0A	20	SPST	White	On-Off	...	03P2444	1.05	
● R13-112A5-02-WW-3A	20	SPST	White	On-Off	0 I	03P2445	1.09	
● R13-244A-02-BB-0A	20	DPST	Black	On-Off	...	03P2479	1.43	
● R13-244A-02-BB-3A	20	DPST	Black	On-Off	0 I	03P2480	1.46	
● R13-244A5-02-WW-0A	20	DPST	White	On-Off	...	03P2481	1.50	
● R13-244A5-02-WW-3A	20	DPST	White	On-Off	0 I	03P2482	1.58	

ILLUMINATED ROCKER

● R13-112B9-02-BBG-0A	20	SPST	Black	On-Off	...	03P2453	2.46	
● R13-112B9-02-BBR-0A	20	SPST	Black	On-Off	...	03P2454	2.46	
● R13-112B-02-BG-0A	20	SPST	Green	On-Off	...	03P2448	1.17	
● R13-112B8W-02-BG-0A	20	SPST	Green	On-Off	...	03P2451	2.07	
● R13-112B-02-BR-0A	20	SPST	Red	On-Off	...	03P2449	1.17	
● R13-112B8W-02-BR-0A	20	SPST	Red	On-Off	...	03P2452	2.07	
● R13-244B-02-BG-0A	20	DPST	Green	On-Off	...	03P2483	1.87	
● R13-244B-02-BR-0A	20	DPST	Red	On-Off	...	03P2484	1.87	

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each	
● R13-112BT	Splash proof cover, For use with: R13-112 series Rocker Switches	03P2450	1-249	0.22

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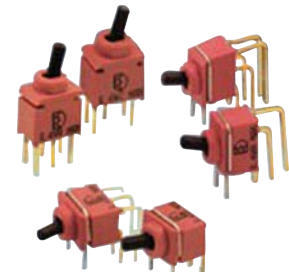
ULTRAMINIATURE SEALED
ROCKER AND LEVER

Features

- Gold contacts
- Glass filled nylon body, UL 94V-0 Rated
- Epoxy sealed terminations
- IP 67 Sealed

Specifications

- Contact Rating: 0.4VA max. @ 20V ac/dc
- Mechanical life: 40000 operations
- Contact resistance: <100mR
- Rocker length: 1.6mm
- Lever length: 3.8mm
- Operating temperature: -30°C to +85°C



VERTICAL MOUNT, VERTICAL BODY

Mfg. Part No.	Circuitry	Switch Operation	Dimensions (mm)			Stock No.	Price Each
			H	W	D		
● 2US2T1A1M2RE	SPDT	On-(On)	7	7	4.5	95M1991	1.97
● 2US1T1A1M2RE	SPDT	On-On	7	7	4.5	95M1988	1.74
● 2US3T1A1M2RE	SPDT	On-Off-On	7	7	4.5	95M1994	2.30
● 2UD2T1A1M2RE	DPDT	On-(On)	7	7	4.5	95M1982	2.30

▶ CONTINUED ▶

SWITCHES – ROCKER • SWITCHES – ROTARY

ULTRAMINIATURE SEALED ROCKER AND LEVER (CONT.)

Mfg. Part No.	Circuitry	Switch Operation	Dimensions (mm)			Stock No.	Price Each
			H	W	D		1-99
● 2UD1T1A1M2RE	DPDT	On-On	7	7	4.5	95M1979	1.97
● 2UD3T1A1M2RE	DPDT	On-Off-On	7	7	4.5	95M1985	2.36

HORIZONTAL MOUNT, RIGHT ANGLE BODY

● 2US2T1A1M6RE	SPDT	On-(On)	4.9	7.8	5.08	95M1992	2.07
● 2US1T1A1M6RE	SPDT	On-On	4.9	7.8	5.08	95M1989	1.84
● 2US3T1A1M6RE	SPDT	On-Off-On	4.9	7.8	5.08	95M1995	2.43
● 2UD2T1A1M6RE	DPDT	On-(On)	4.9	7.8	5.08	95M1983	2.18
● 2UD1T1A1M6RE	DPDT	On-On	4.9	7.8	5.08	95M1980	2.13
● 2UD3T1A1M6RE	DPDT	On-Off-On	4.9	7.8	5.08	95M1986	2.50

VERTICAL MOUNT, RIGHT ANGLE BODY

● 2US2T1A1M7RE	SPDT	On-(On)	7	5.3	5.08	95M1993	2.07
● 2US1T1A1M7RE	SPDT	On-On	7	5.3	5.08	95M1990	1.84
● 2US3T1A1M7RE	SPDT	On-Off-On	7	5.3	5.08	95M1996	2.43
● 2UD2T1A1M7RE	DPDT	On-(On)	7	5.3	5.08	95M1984	2.18
● 2UD1T1A1M7RE	DPDT	On-On	7	5.3	5.08	95M1981	2.13
● 2UD3T1A1M7RE	DPDT	On-Off-On	7	5.3	5.08	95M1987	2.50

(116609)

MINIATURE ROCKER SWITCHES



Specifications:

- Contact rating: 4A at 250Vac
- Insulation Resistance: >50MR
- Contact Resistance: 20mΩ
- Dielectric Strength: 3.5kV ac
- Inrush Current: 100A
- Operating Temperature: 0°C to +85°C
- Mechanical Life: >100000 ops

Features:

- Compact range of rocker switches
- Fit standard panel cut-out

NON-ILLUMINATED

Mfg. Part No.	Rating	Stock No.	Price Each
			1-249
● MC36328-001-01	SPST	38K4976	0.87
● MC36328-011-01	SPDT	97K4688	0.99
● MC3813-011-01	DPST	97K4691	1.27
● MC3813-011-021	DPST I/O marking	97K4692	1.34

ILLUMINATED

● MC3811-091-02	DPST Red	97K4689	1.72
● MC3811-091-05	DPST Green	97K4690	1.66

(116495)

STANDARD ROCKER SWITCHES



Features

- Black bodied switches positive action
- Non-illuminated types available with either I/O status marking or with colored section (red or green) that becomes visible in ON position
- Illuminated types available with color illuminated rocker
- Snap-in mounting
- 6.3 x 0.8mm Quick connect terminals
- CSA, VDE and CQC Approved, UL recognized

Specifications

- Ratings: 10A at 125Vac, 15A at 250Vac
- Ratings - VDE, SEMKO & CQC: 16(6)A @ 250V ac
- Contact Resistance: 20mΩ
- Insulation Resistance: 50MΩ at 500V dc
- Dielectric Strength: 3.5kV
- Flammability: UL 94V-2
- Single pole: Bezel=32 x 13.7, Body=27.7 x 10.6 x 18, Panel cut-out=30 x 11mm
- Double pole: Bezel=32 x 25, Body=29 x 22.1 x 18, Panel cut-out=30 x 22.5mm

NON-ILLUMINATED

Mfg. Part No.	Circuitry	Color	Stock No.	Price Each
				1-99
● MC34231-011-21	SPDT	Black	74M3098	1.34
● MC34231-001-71	SPST	Black I/O	74M3097	1.04
● MC34224-071-1601	SPST	Black & Red	74M3096	1.29
● MC37920-001-1101	DPST	Black I/O	74M3101	1.25

➔ CONTINUED ➔

STANDARD ROCKER SWITCHES (CONT.)

Mfg. Part No.	Circuitry	Color	Stock No.	Price Each
				1-99
● MC37920-001-2601	DPST	Black & Red	74M3102	1.36
● MC37920-001-2701	DPST	Black & Green	74M3103	1.58

ILLUMINATED

● MC34231-091-72	SPST	Red I/O	74M3099	1.46
● MC37920-021-1102	DPST	Red I/O	74M3104	1.89
● MC37920-021-1104	DPST	Green I/O	74M3105	2.06

(116562)

RA SERIES NON-SHORTING 1A ROTARY SWITCHES



multicomp

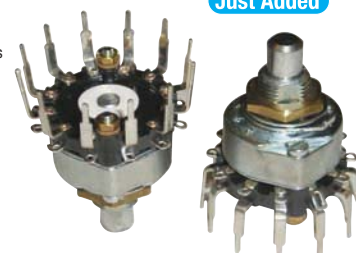
Just Added

Features:

- 25.4mm diameter multiwafer rotary switch
- Standard 30° indexing
- Solder or printed circuit board
- Shorting (MMB) or non shorting (BBM) contacts
- Adjustable stop to restrict number of positions
- Standard self-stacking wafers

Specifications:

- Contact rating: 150mA at 250Vac/dc; 350mA at 110Vac/dc; 1A at 12Vac/dc
- Life: 10,000 cycles
- Operating temperature: -30°C to +85°C
- Contact Resistance: 20mΩ
- Wafer material: Polyphenylene sulphide (PPS)
- Housing material: Zinc alloy
- Contact/terminal material: Ag plated Brass



Mfg. Part No.	Current (A)	No. of Poles	No. of Positions	Indexing	Termination	Stock No.	Price Each
							1-24
● RA01A12BSFMSOX	1	1	12	30°	Solder Lug	95M7090	15.31
● RA01B06BSFMSOX	1	2	6	30°	Solder Lug	95M7091	15.31
● RA01C04BSFMSOX	1	3	4	30°	Solder Lug	95M7092	15.31
● RA01D03BSFMSOX	1	4	3	30°	Solder Lug	95M7093	15.31

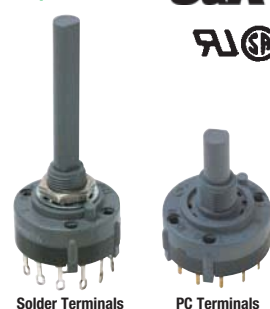
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C&K A SERIES ROTARY SWITCHES

Just Added



- Switch rating: 2.5A @ 125VAC; 350mA @ 125VDC
- Nonshorting contacts
- Indexing: 30°
- Operating temperature: -30°C to +65°C



Actuator: Gf nylon. Housing and bushing: Gf nylon. Movable contacts: coin silver, silver-plated. Stationary contacts and terminals: brass, silver-plated. Panel mounting: 0.386" (9.80) diameter hole. Hardware: nut, lock-washer, stop ring for user-selectable stops.

SOLDER TERMINALS

Mfg. Part No.	Circuit	No. of Pos.	Actuator	Stock No.	Price Each		
					1-24	25-99	100-249
● A11215RNZQ	SP	12	1.50" High, Flatted	81F1011	5.59	5.37	4.15
● A20615RNZQ	DP	6	1.50" High, Flatted	81F1012	5.92	5.68	4.39
● A30403RNZQ	3P	4	0.75" High, Flatted	08C5666	6.05	5.81	4.49
● A30415RNZQ	3P	4	1.50" High, Flatted	81F1013	5.86	5.62	4.34
● A40315RNZQ	4P	3	1.50" High, Flatted	81F1014	6.41	6.15	4.75

PC TERMINALS

● A11215RNCQ	SP	12	1.50" High, Flatted	81F1015	5.59	5.37	4.15
● A20615RNCQ	DP	6	1.50" High, Flatted	81F1016	5.92	5.68	4.39
● A30415RNCQ	3P	4	1.50" High, Flatted	81F1017	5.86	5.62	4.34

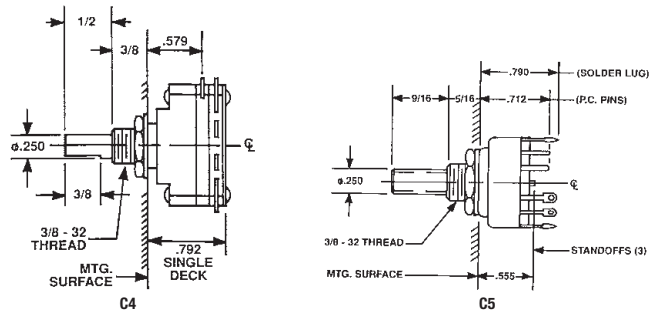
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(148886)

SWITCHES – ROTARY

C4, C5 and C7 SERIES
NON-SHORTING
ROTARY SWITCHES

C4 Series;

- Current and Voltage Ratings: 0.5A @28VDC; 0.3A @ 125VAC
- Current Carrying Capacity: 15A
- IP67 Rated Switches are Available; Go online or call

C5 Series

- Current and Voltage Ratings: 1A @28VDC; 0.5A @ 125VAC
- Current Carrying Capacity: 5A

C7 Series

- Current and Voltage Ratings: 1.0A @28VDC; 0.5A @ 125VAC
- Current Carrying Capacity: 25A
- Dielectric Strength: 1,000VAC Between Current Carrying Parts and Ground

The **C4 series** rotary switches fully enclosed design helps keep dirt and moisture out of the contact area while locking in lifetime lubricants. Terminals and contacts: brass with silver plating. Index life: 25,000 cycles minimum. Insulation: Diallyl phthalate. Index angles: standard 30°. Order knob separately. Mounting nut and lockwasher are shipped fully assembled. Shorting type switches are also available; go online or call.

Mfg. Part No.	No. of Poles	No. of Positions	Stock No.	Price Each	
				1-14	15-24
● C4D0112N-A	1	12	06M4591	12.23	11.72
● C4D0206N-A	2	6	06M4593	12.23	11.72
● C4D0304N-A	3	4	06M4595	20.76	19.91
● C4D0212N-A	2	12	06M4594	15.72	15.07
● C4D0406N-A	4	6	06M4597	16.11	15.44
● C4D0604N-A	6	4	06M4599	16.49	15.81
● C4D0312N-A	3	12	06M4596	19.60	18.79
● C4D0606N-A	6	6	06M4600	20.18	19.35
● C4D0904N-A	9	4	06M4602	33.76	32.37
● C4D0412N-A	4	12	06M4598	23.67	22.70
● C4D0806N-A	8	6	06M4601	31.82	30.51
● C4D1204N-A	12	4	92F2760	25.22	24.18

C5 series non-shorting rotary switches have an economical and lightweight design. Features include 30° indexing up to 12 positions, solder lug terminals, fixed stops, and both internal and external seals for washability. For convenience, mounting nut and washer are shipped assembled. Insulation: polyester. Index life: 25,000 cycles minimum. Terminals and contacts: brass with silver plating. Index: molded live spring detent. Order knob separately; go online or call.

Mfg. Part No.	No. of Poles	No. of Positions	Stock No.	Price Each	
				1-14	15-24
● C5P0206N-A	2	6	06M4604	7.76	7.44
● C5P0304N-A	3	4	06M4605	8.15	7.82
● C5P0403N-A	4	3	06M4606	8.54	8.19
● C5P0112N-A	1	12	06M4603	7.18	6.89

The **C7 series** provides a fully enclosed, modular design which enables switching up to 24 positions. All parts utilizes non-corrosive materials. Terminals and contacts: brass with silver plating. Insulation: Diallyl phthalate. Index life: 25,000 cycles minimum. Index angles: 15°. Mounting nut and lockwashers are shipped assembled.

Mfg. Part No.	No. of Poles	No. of Positions	Stock No.	Price Each	
				1-14	15-24
● C7D0123N	1	23	06M4607	27.16	26.04
● C7D0323N	3	23	06M4608	70.81	67.89

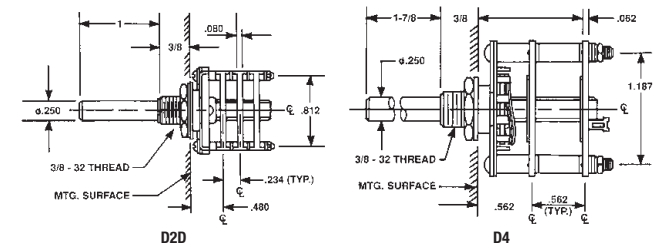
ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each	
			1-14	15-24
● 1202BJ	Round Knob w/Silver Cap for 0.250" Shafts	06M4895	5.27	5.00
● P2300	Black Pointer Knob for 0.250" Shafts	06M4897	1.87	1.78
● P173	Dial Plate, 15° Switch Angle, 1.87" Dia., No. Description 1-23	22F573	1.70	1.61

(5050)

D2D AND D4 SERIES
NON-SHORTING
ROTARY SWITCHES

Just Added



D2D Series

- Current and voltage rating: 0.55A at 28VDC; 0.25A at 115VAC
- Current carrying capacity: 7A

D4 Series:

- Current and voltage rating: 1.5A at 28VDC; 0.5A at 115VAC
- Current carrying capacity: 9A

The **D2 series** switches are used where space is at a premium. Dual-ball side thrust index offers exceptional torque control. All parts utilize non-corrosive materials. Clips and rotors: brass with silver plating. Insulation: Diallyl phthalate, glass or ceramic. Index life: 25,000 cycles minimum. Index angles: +30°. Order pointer knob separately below.

Mfg. Part No.	Poles	Positions	Stock No.	Price Each	
				1-14	15-24
● D2D0112N	1	2-12	06M4618	35.53	33.65
● D2D0206N	2	2-6	06M4619	35.53	33.65
● D2D0212N	2	2-12	06M4620	47.26	44.76
● D2D0305N	3	2-5	06M4621	35.53	33.65
● D2D0312N	3	2-12	06M4622	59.84	56.68
● D2D0406N	4	2-6	06M4623	47.26	44.76
● D2D0605N	6	2-5	06M4624	47.26	44.76
● D2D0606N	6	2-6	06M4625	70.40	62.31

D4 series switch is economical and versatile. Offers the quality feel of a ball and spring index mechanism and is available with up to 12 positions and 30° or 60° indexing. All parts are made of non-corrosive materials. Clips and rotors: brass with silver plating. Insulation: glass epoxy, ceramic or diallyl phthalate. Index: single-ball, hill and valley. Index life: 25,000 cycles minimum. Order knob separately below.

D4G SERIES GLASS EPOXY INSULATED SWITCHES

Shorting		Non-Shorting		Poles	Sections	Positions	Price Each	
Mfg. Part No.	Stock No.	Mfg. Part No.	Stock No.				1-14	15-24
● D4G0111S	06M4658	● D4G0111N	06M4657	1	1	2-11	26.18	24.80
● D4G0205S	06M4660	● D4G0205N	06M4659	2	1	2-5	26.18	24.80
● D4G0211S	06M4663	● D4G0211N	06M4662	2	2	2-11	35.53	33.65
...	...	● D4G0303N	06M4664	3	1	2-3	26.18	24.80
● D4G0311S	06M4667	● D4G0311N	06M4666	3	3	2-11	44.71	42.35
● D4G0405S	06M4669	● D4G0405N	06M4668	4	2	2-5	35.53	33.65
...	...	● D4G0411N	06M4670	4	4	2-11	53.72	50.88
● D4G0511S	90B4516	● D4G0511N	06M4672	5	5	2-11	62.90	59.57
● D4G0603S	22F818	● D4G0603N	06M4673	6	2	2-3	35.53	33.65
...	...	● D4G0605N	06M4674	6	3	2-5	44.71	42.35
...	...	● D4G0611N	06M4675	6	6	2-11	86.02	81.47
...	...	● D4G0805N	06M4677	8	4	2-5	79.29	75.09
...	...	● D4G0106N60	06M4656	1	1	2-6**	39.38	34.86

D4C SERIES CERAMIC INSULATED SWITCHES

Shorting		Non Shorting		Poles	Sections	Positions	Price Each	
Mfg. Part No.	Stock No.	Mfg. Part No.	Stock No.				1-14	15-24
● D4C0112S	06M4636	● D4C0112N	06M4635	1	1	2-12	39.44	37.36
● D4C0206S	06M4638	● D4C0206N	22F603	2	1	2-6	39.44	37.36
...	...	● D4C0212N	06M4639	2	2	2-12	61.54	58.29
...	...	● D4C0305N	06M4641	3	1	2-5	39.44	37.36
...	...	● D4C0312N	06M4643	3	3	2-12	84.15	79.70
● D4C0406S	06M4646	● D4C0406N	06M4645	4	2	2-6	61.54	58.29
● D4C0412S	06M4648	● D4C0412N	06M4647	4	4	2-12	106.59	100.95
...	...	● D4C0503N	06M4649	5	1	2-3	39.44	37.36
● D4C0512S	22F616	...	...	5	5	2-12	131.41	124.46
...	...	● D4C0605N	06M4651	6	2	2-5	62.39	59.09
...	...	● D4C0606N	06M4652	6	3	2-6	84.15	79.70
...	...	● D4C0612N	06M4653	6	6	2-12	177.40	157.00

**60° indexing

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each	
			1-14	15-24
● 1202BJ	Round Knob w/Silver Cap for 0.250" Shafts	06M4895	5.27	5.00
● P2300	Black Pointer Knob for 0.250" Shafts	06M4897	1.87	1.78

(5070)

SWITCHES – ROTARY

SERIES 71 ¼-AMP, 0.5-0.75" DIAMETER MULTI-DECK ROTARY SWITCHES

- Multi-Deck, Single Shaft Adjustable Switches
- Make/Break: 250mA, 115VAC or 30VDC Resisting 20,000 Cycles
- Insulation Resistance: 1,000 Megohms Minimum
- Voltage Breakdown: 500VAC Minimum



71AD36 Solder Lug Terminals



71ADF36 PC Terminals

Meet moisture, shock, salt spray, explosion and stop strength requirements of MIL-S-3786. 71AD are standard style with solder lug terminals and 0.125" (3.18) diameter shaft; 71BD same but have 0.250" (6.35) diameter shaft. 71ADF are PC mount with 0.125" (3.18) diameter shaft; 71BDF same but have 0.250" (6.35) diameter shaft. Behind-panel depth: 1-deck, 0.75" (19.05); 2-deck, 1" (25.4).

SOLDER LUG TERMINALS

Mfg. Part No.	Max. Positions	Poles	Decks	Angle of Throw	Stock No.	Price Each	
						1-9	10-24
● 71AD36-01-2-AJN	5	2	1	36	14M6833	17.88	16.86
● 71BD36-01-2-AJN	5	2	1	36	14M6848	17.88	16.86
● 71AD36-02-2-AJN	5	2	2	36	14M6835	23.68	22.33
● 71BD36-02-2-AJN	5	2	2	36	17M8462	23.68	22.33
● 71AD30-01-2-AJN	6	2	1	30	16M3421	17.88	16.86
● 71BD30-01-2-AJN	6	2	1	30	14M6843	17.88	16.86
● 71AD30-02-2-AJN	6	2	2	30	14M6831	23.68	22.33
● 71BD30-02-2-AJN	6	2	2	30	14M6845	23.68	22.33
● 71AD36-01-1-AJN	10	1	1	36	14M6832	17.22	16.24
● 71BD36-01-1-AJN	10	1	1	36	14M6847	17.21	16.23
● 71AD36-02-1-AJN	10	1	2	36	14M6834	22.29	21.02
● 71BD36-02-1-AJN	10	1	2	36	14M6849	22.29	21.02
● 71AD30-01-1-AJN	12	1	1	30	14M6829	17.21	16.23
● 71BD30-01-1-AJN	12	1	1	30	14M6842	17.22	16.23
● 71AD30-02-1-AJN	12	1	2	30	14M6830	21.70	20.46
● 71BD30-02-1-AJN	12	1	2	30	14M6844	22.29	21.02

PRINTED CIRCUIT TERMINALS

● 71BDF36-02-2-AJN	5	2	2	36	16M3422	26.64	25.12
● 71ADF30-01-2-AJN	6	2	1	30	57F3765	19.50	18.39
● 71BDF30-01-2-AJN	6	2	1	30	14M6837	19.31	18.21
● 71ADF30-02-2-AJN	6	2	2	30	57F3767	27.18	25.62
● 71BDF30-02-2-AJN	6	2	2	30	14M6839	27.17	25.62
● 71ADF36-01-1-AJN	10	1	1	36	57F3760	18.81	17.73
● 71BDF36-02-1-AJN	10	1	2	36	14M6841	25.28	23.83
● 71BDF30-02-1-AJN	12	1	2	30	14M6838	25.01	23.58
● 71ADF30-01-1-AJN	12	1	1	30	57F3764	18.76	17.68
● 71BDF30-01-1-AJN	12	1	1	30	14M6836	18.08	17.05
● 71ADF30-02-1-AJN	12	1	2	30	14M6827	25.59	24.13

(5056)

SERIES 19 SINGLE DECK 15A ROTARY SWITCHES

- Single-Pole, Single-Deck Units
- 30° Indexing
- Contacts are Non-Shorting
- Contact Resistance: 10 Milliohms at 2VDC and 100mA
- Insulation Resistance: 100,000 Megohms
- Voltage Breakdown: 2500VAC

¼" dia. shaft. Available in solder lug terminal with 0.125" (3.18) wire hole or Faston® terminal with 0.080" (2.03) wire hole. 15 amps, 120VAC, noninductive load. UL recognized.

SOLDER TERMINALS

Mfg. Part No.	No. of Poles	No. of Decks	No. of Taps	Stock No.	Price Each	
					1-4	5-9
● 19001-03UL	1	1	3	14M6633	30.01	28.20
● 19001-04UL	1	1	4	14M6634	31.55	29.65
● 19001-05UL	1	1	5	14M6635	33.08	31.09
● 19001-06UL	1	1	6	14M6636	34.62	32.53
● 19001-07UL	1	1	7	14M6637	36.13	33.96
● 19001-08UL	1	1	8	14M6638	37.70	35.43
● 19001-10UL	1	1	10	14M6639	40.74	38.29
● 19001-11UL	1	1	11	14M6640	42.23	39.69

FASTON® TERMINAL

● 19101-03UL	1	1	3	57F1501	30.01	28.20
● 19101-04UL	1	1	4	14M6641	31.55	29.65
● 19101-05UL	1	1	5	14M6642	33.08	31.09

➤ CONTINUED ➤

SERIES 19 SINGLE DECK 15A ROTARY SWITCHES (CONT.)

FASTON® TERMINAL

Mfg. Part No.	No. of Poles	No. of Decks	No. of Taps	Stock No.	Price Each	
					1-4	5-9
● 19101-06UL	1	1	6	14M6643	34.62	32.53
● 19101-08UL	1	1	8	14M6645	37.70	35.43
● 19101-10UL	1	1	10	14M6646	40.74	38.29
● 19101-11UL	1	1	11	14M6647	39.84	37.44

(5055)

SERIES 42D/44D MULTI-DECK ROTARY SWITCHES

- Fully Enclosed, Adjustable Stop Switches Interchange with Fixed Stop Models
- Rated Make/Break 1A, Carry 10A at 115VAC Resistive
- Non-Shorting Contacts
- Insulation Resistance: 50,000 Megohms Initial, 1,000 Megohms Minimum

¼" dia. shaft. ¾-32UNF bushing. Behind-panel depth: 1-deck, 1.025" (26.04); 2-deck, 1.371" (34.82). 42D series; 10-position. 36° indexing. 1" (25.4) diameter. 44D series; 12-position. 30° indexing. 1.162" (29.51) diameter.



Mfg. Part No.	Poles	Decks	Max. Positions	Angle of Throw	Stock No.	Price Each	
						1-4	5-9
● 42D36-01-1-AJN	1	1	10	36°	14M6757	43.36	41.75
● 42D36-02-1-AJN	1	2	10	36°	14M6759	56.49	54.38
● 42D36-01-2-AJN	2	1	5	36°	14M6758	45.21	43.52
● 42D36-02-2-AJN	2	2	5	36°	14M6760	60.23	57.98
● 44D30-01-1-AJN	1	1	12	30°	57F1545	44.49	42.83
● 44D30-02-1-AJN	1	2	12	30°	14M6764	59.12	56.92
● 44D30-01-2-AJN	2	1	6	30°	14M6763	46.37	44.64
● 44D30-02-2-AJN	2	2	6	30°	14M6765	62.83	60.48
● 44D30-03-2-AJN	2	3	6	30°	14M6767	96.66	93.05
● 44D30-04-1-AJN	1	4	12	30°	14M6768	103.49	99.63

(5056)

SERIES 56 SINGLE DECK ROTARY SWITCHES

- 0.5" (12.70) diameter, 200mA, 0.480" behind panel
- Single deck adjustable stops (AJ) non-shorting contacts (N)
- Life - 10,000 cycles at 200mA, 300VDC or 115VAC resistive
- Mfg. part nos. with "P" have PC terminals
- Mfg. part nos. with "S" have shaft and panel seal
- Shorting contacts available; go online or call.

Bushing: ¼-28 UNF - 2A thread, 0.25" (6.35) long. Shaft: 0.125" (3.18) dia., 0.375" (9.53) long. Panel to PC board: 0.377" (9.58). Circle of terminal centers is 0.340" (8.64) for 10-position switches and 0.366" (9.30) for 12-position switches.

Mfg. Part No.	Poles	Max. Positions	Angle of Throw	Stock No.	Price Each	
					1-9	10-24
● 56D30-01-1-AJN	1	12	30°	14M6789	11.84	10.86
● 56D30-01-2-AJN	2	6	30°	14M6790	13.13	12.05
● 56D36-01-1-AJN	1	10	36°	14M6791	11.46	10.51
● 56D36-01-2-AJN	2	5	36°	14M6792	12.76	11.70
● 56SD30-01-1-AJN	1	12	30°	14M6796	12.83	11.77
● 56SD36-01-1-AJN	1	10	36°	14M6797	12.45	11.42
● 56SD36-01-2-AJN	2	5	36°	14M6798	13.75	12.61
● 56DP30-01-1-AJN	1	12	30°	14M6787	12.21	11.20
● 56DP30-01-2-AJN	2	6	30°	16M1417	12.98	11.91
● 56DP36-01-1-AJN	1	10	36°	17M3809	11.84	10.86
● 56DP36-01-2-AJN	2	5	36°	14M6788	13.04	11.97
● 56SDP30-01-1-AJN	1	12	30°	14M6793	13.23	12.13
● 56SDP30-01-2-AJN	2	6	30°	14M6794	14.26	13.08
● 56SDP36-01-1-AJN	1	10	36°	16M3306	12.83	11.77
● 56SDP36-01-2-AJN	2	5	36°	14M6795	14.13	12.96

(5057)

SWITCHES – ROTARY

SERIES 50 AND 51 SINGLE DECK ROTARY SWITCHES



Features:

- 1/2" diameter rotary switch
- Adjustable stops (AJ) with non-shorting contacts (N)
- Solder or PCB terminals

Specifications:

- Current rating: 200mA
- Life: 10,000 cycles
- 1/4-28 UNF-2A bushing thread, 1/4" shaft
- Behind panel: 0.658" (solder), 0.537" (panel to PCB)
- For shaft and panel seal, shorting contacts; *go online or call*
- Mfg. part nos. with C = military style (panel seal)



SOLDER TERMINALS

Mfg. Part No.	Poles	Pos.	Angle of Throw	Stock No.	Price Each	
					1-9	10-24
51CD30-01-1-AJN	1	12	30°	14M6783	29.29	26.54
51D30-01-1-AJN	1	12	30°	95F9486	27.10	24.55
51CD30-01-2-AJN	2	6	30°	14M6784	35.64	32.29
51D30-01-2-AJN	2	6	30°	95F9487	39.38	35.68
50CD36-01-1-AJN	1	10	36°	14M6774	27.83	25.22
50D36-01-1-AJN	1	10	36°	14M6777	20.63	18.69
50CD36-01-2-AJN	2	5	36°	14M6775	34.49	31.25
50D36-01-2-AJN	2	5	36°	14M6778	25.49	23.10
50D45-01-1-AJN	1	8	45°	96B4821	25.70	23.28
50D45-01-2-AJN	2	4	45°	11C5078	31.89	28.89
50D60-01-1-AJN	1	6	60°	11C5079	26.07	23.62
50D60-01-2-AJN	2	3	60°	11C5080	39.13	35.45
50D90-01-1-AJN	1	4	90°	11C5081	26.24	23.77
50D90-01-2-AJN	2	2	90°	11C5082	33.34	30.21

PCB TERMINALS

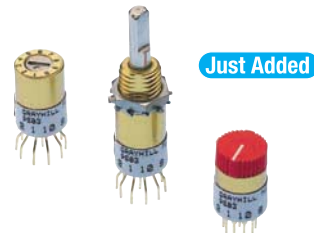
51CDP30-01-1-AJN	1	12	30°	14M6782	29.04	26.31
51DP30-01-1-AJN	1	12	30°	14M6785	23.15	20.97
51DP30-01-2-AJN	2	6	30°	95F9491	35.17	31.86
50CDP36-01-1-AJN	1	10	36°	14M6772	28.66	25.97
50DP36-01-1-AJN	1	10	36°	14M6776	21.57	19.54
50CDP36-01-2-AJN	2	5	36°	14M6773	34.74	31.47
50DP36-01-2-AJN	2	5	36°	95F9489	38.67	35.03
50DP45-01-1-AJN	1	8	45°	40M9999	24.65	22.34
50DP45-01-2-AJN	2	4	45°	11C5074	40.50	36.69
50DP60-01-1-AJN	1	6	60°	11C5075	27.32	24.75
50DP60-01-2-AJN	2	3	60°	90B5539	40.50	36.69
50DP90-01-1-AJN	1	4	90°	41M0001	31.59	28.62
50DP90-01-2-AJN	2	2	90°	41M0002	38.92	35.26

(5014)

SERIES 75 SINGLE-DECK ROTARY SWITCHES



- 0.3" diameter, 36° only
- Life: 10,000 cycles at 200mA
- AP = Screwdriver actuated
- BF = Shaft operated 1/4" dia.
- C = Continuous rotation
- Integral knob and/or odd number of positions also available; *go online or call*
- Contact type: Non-shorting, wiping contacts



SCREWDRIVER ACTUATED

Mfg. Part No.	Positions	Number of Poles	Angle of Throw	Stock No.	Price Each	
					1-49	50-99
75AP36-01-2-04N	4	2	36°	11C9564	31.12	25.71
75AP36-01-1-06N	6	1	36°	11C9558	26.01	21.49
75AP36-01-1-08N	8	1	36°	11C9560	26.01	21.49
75AP36-01-1-10N-C	10	1	36°	94F1035	26.01	21.49

SHAFT OPERATED 1/8" DIA.

75BF36-01-1-04N	4	1	36°	93B3480	30.57	25.26
75BF36-01-1-06N	6	1	36°	11C9570	30.57	25.26
75BF36-01-1-08N	8	1	36°	11C9572	30.57	25.26
75BF36-01A10N	10	1	36°	11C9575	30.57	25.26

(84957)

CONTROL KNOBS

Just Added

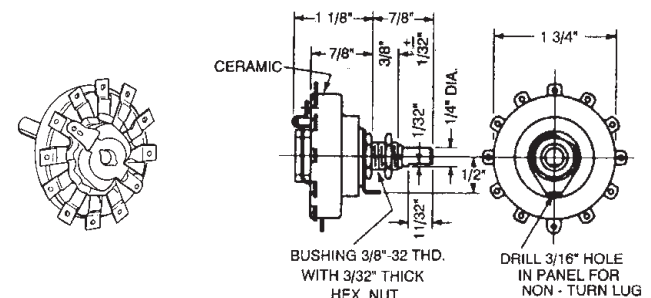


- Ideally suited for encoder and rotary switches
- Standard fit for Grayhill encoders and rotary switches
- Custom materials, styles, colors and markings available
- Standard color: Black
- Choice of spring clip (press-on) or metal insert w/set screw versions

Mfg. Part No.	Fig.	Shaft Diameter (in)	Material	Spring Clip	Set Screw	Stock No.	Price Each
							1-24
11K5013-KMNB	1	0.250	Nylon	No	Yes	11C3963	4.96
11K5014-KCNB	2	0.250	Nylon	Yes	No	05C2120	0.79
11K5015-JMNB	3	0.125	Nylon	No	Yes	18C4128	3.99
11K5015-KMNB	3	0.250	Nylon	No	Yes	11C3970	4.87
11K5017-JCNB	4	0.125	Nylon	Yes	No	26C2509	1.88
11K5020-KCAB	5	0.250	ABS	Yes	No	11C3975	1.26
11K5028-KCNB	6	0.250	Nylon	Yes	No	11C3976	2.19
11K5029-KCNB	7	0.250	Nylon	Yes	No	11C3979	1.05

(138958)

111 SERIES 15-AMP 125VAC ROTARY TAP SWITCHES



- Ratings: 15 Amps, 125VAC, 20VDC Noninductive
- Shaft Torque: 1.5-3.8 in. lbs.

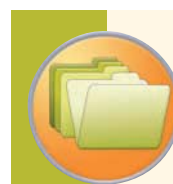
- Diameter: 2.0" (50.8mm)

Slow-break, quick-make action for switching AC current, and all-soldered, all-riveted metal and ceramic construction to provide reliable operation. Self-cleaning silver alloy contacts, rounded common contact. Arc-proof ceramic body. Use 3/8-32 bushing and hex nut for 1/4" thick maximum panel mounting. A 3/16" hole is required for the non-turn washer. Soldering type terminals. UL listed, file no. E14245. Order mounting hardware kit and knobs separately on page 1776.

ROHS COMPLIANT PARTS

Mfg. Part No.	No. of Taps	Total Rotation	Stock No.	Price Each	
				1-24	25-49
111-3E	3	60°	64K7840	38.18	36.19
111-4E	4	90°	64K7842	44.53	42.20
111-5E	5	120°	64K7844	43.70	41.42
111-6E	6	150°	64K7846	45.60	43.21
111-7E	7	180°	64K7848	51.44	48.75
111-8E	8	210°	64K7850	49.45	46.86
111-10E	10	270°	64K7836	53.54	50.74
111-11E	11	300°	64K7838	55.68	52.77

(5009)

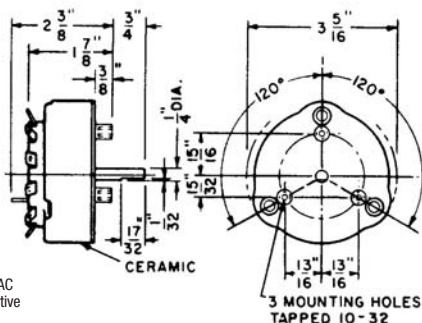
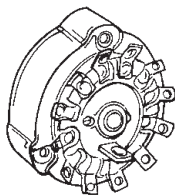


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(148881)

SWITCHES – ROTARY

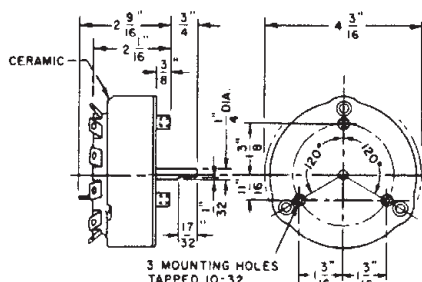
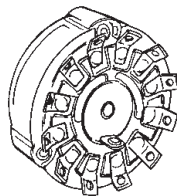
312 SERIES 30-AMP
300VAC ROTARY
TAP SWITCHES**OHMITE®**

- Ratings: 30 Amps, 300VAC (150VAC Between Taps), 20VDC Non-inductive
- Shaft Torque: 3-7 in./lbs.
- Diameter: 3.13" (79.5mm)

Slow-break, quick-make action for switching AC current, and all-soldered, all-riveted metal and ceramic construction for reliable operation. Self-cleaning silver alloy contacts, rounded common contact. Arc-proof ceramic body. Mount in 1/4" panels (maximum) with three no. 10-32 flat-head, 3/8" long machine screws, included. Soldering type terminals. UL listed file no. E14245. Order knobs separately; on this page.

Mfg. Part No.	No. of Taps	Total Rotation	Stock No.	Price Each	
				1-24	25-49
● 312-3E	3	60°	64K8432	126.29	119.46
● 312-6E	6	150°	64K8441	140.13	132.56
● 312-8E	8	210°	64K8447	149.14	141.08
● 312-9E	9	240°	64K8450	151.41	143.22
● 312-10E	10	270°	64K8423	155.94	147.51
● 312-11E	11	300°	64K8426	156.30	147.85
● 312-12E	12	330°	64K8429	153.18	144.90

(5010)

412 SERIES 50-AMP
300VAC ROTARY TAP
SWITCHES**OHMITE®**

- Ratings: 50 Amps, 300VAC (150VAC Between Taps), 20VDC Noninductive Load
- Shaft Torque: 3-8 in./lbs.
- Diameter: 3.32" (84.3mm)

Slow-break, quick-make action for switching AC current, and all-soldered, all-riveted metal and ceramic construction to provide reliable operation. Self-cleaning silver alloy contacts, rounded common contact. Arc-proof ceramic body. Mount in 1/4" panels (maximum) with three no. 10-32 flat-head, 3/8" long machine screws, which are included. Must drill 5/16" hole in panel for shaft. Soldering lugs #10 screw terminal. UL listed, file no. E14245. Order knobs separately on this page.

Mfg. Part No.	No. Taps	Total Rotation	Stock No.	Price Each	
				1-9	10-24
● 412-6E	6	150°	64K8813	148.51	116.40
● 412-7E	7	180°	64K8816	162.74	153.83
● 412-8E	8	210°	64K8819	171.68	162.27
● 412-12E	12	330°	64K8801	200.65	189.66

NON-ROHS COMPLIANT PARTS

● 412-7E	7	180°	64K8816	162.74	153.83
● 412-10	10	270°	81F4789	204.11	192.93

(5008)

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(148857)

MOUNTING HARDWARE
AND KNOBS FOR ROTARY
TAP SWITCHES**OHMITE®**

ROHS COMPLIANT MOUNTING HARDWARE KIT

Mfg. Part No.	Description	Stock No.	Price Each	
			1-14	15-24
● 7091E	Contains 25 each, nuts and lock washers for 111, 212, and 711 series	64K3003	34.37	31.95

ROHS COMPLIANT KNOBS

● 5103AE	For 711 Series Switches	64K9286	6.97	6.48
● 5104AE	For 608 Series Switches	64K9288	32.54	30.24
● 5109AE	For 312 Series Switches	64K9295	33.50	31.14
● 5111AE	For 412 Series Switches	64K9299	35.65	33.13
● 5116AE	For 111, 212 Series Switches	64K9304	17.04	15.84

(5012)

608 SERIES 100-AMP 300VAC
ROTARY TAP SWITCHES**OHMITE®**

- Ratings: 100 Amps, 300VAC, 20VDC Noninductive
- Shaft Torque: 25-32 in./lbs.
- Diameter: 4.88" (124.0mm)

Slow-break, quick-make action for switching AC current, and all-soldered, all-riveted metal and ceramic construction to provide reliable operation. Self-cleaning silver alloy contacts, rounded common contact. Arc-proof ceramic body. Mount in 1" panels (maximum) with three flat-head, 1/4"-20, 1 1/4" long machine screws, which are included. Must drill 7/16" hole in panel for shaft. Soldering lug or 1/4" bolt terminals. Order knobs separately on this page.

ROHS COMPLIANT PARTS

Mfg. Part No.	No. Taps	Total Rotation	Stock No.	Price Each	
				1-4	5+
● 608-8E	8	280°	64K9365	396.90	335.84

(5011)

6000 SERIES PC MOUNT
ROTARY SWITCHES**Tyco Electronics**

For programming electrical/mechanical circuits in machine tools, test equipment, computers, input data terminals. Output capabilities include: binary coded decimal (BCD), single pole (SP), hexadecimal (HEX) capabilities available, gold over nickel-plate phosphor bronze contacts rated 250mA. Dielectric breakdown: 500VDC. Binary Coded (BCD) also available; go online or call.



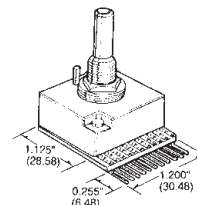
Fig. 1



Fig. 2

Mfg. Part No.	Description	No. of Positions	Dia. x H	Fig.	Stock No.	Price Each	
						1-9	10-24
● 1-435097-1	Screwdriver SP	10	0.750 x 0.220"	1	87F6257	30.84	28.14
● 435123-1	Bar-Type Knob BCD	10	0.750 x 0.370"	2	87F6255	33.26	30.35
● 1-435167-1	Bar-Type Knob Hex.	16	0.920 x 0.360"	2	87F6284	33.29	30.37

(7981)

3100 SERIES
MULTI-LAYER
ROTARY SWITCHES**Tyco Electronics**

For logic level circuitry. Can control electrical circuits that operate at 2A, 115VAC (nonswitching) and to 125mA, 115VAC (switching). Positive detent action for error-free operation. Black polyester housing with thermoplastic operating shaft and detent rated 94V-0. Enclosed gold-over-nickel plate phosphor bronze contacts.

Mfg. Part No.	No. of Positions	Output Code	Stock No.	Price Each	
				1-9	10-24
435984-1	10	BCD	50F2424	72.73	69.47
436037-1	12	BCD	50F2425	58.03	55.42
435986-1	16	Hexadecimal	50F2426	82.33	78.63
435987-1	16	Hexadecimal	50F2429	75.39	72.00
436028-1	24	BCD	50F2430	138.20	131.99
436287-1	32	BCD	50F2431	141.39	135.04

(7982)

SWITCHES – SLIDE

25000N SERIES MINIATURE SLIDE SWITCHES



Fig. 1



Fig. 2



Fig. 3



Fig. 4

Silver plating. Contact ratings: 4A @ 125VAC, 2A @ 250VAC or 3A @ 30VDC. Operating temperature range: -40°C to +85°C. Glass-filled polyamide actuator and cover. Epoxy terminal seal. Dimensions: S.P. Body: .555L x .295W x .319"H; D.P. Body: .555L x .465W x .319"H. Figures 1 through 4 have .100" contact-to-contact terminal spacing. Figures 5 through 7 have .200" contact-to-contact terminal spacing.



Fig. 5

FLUSH VERTICAL ACTUATOR — FIGURE 1

Mfg. Part No.	Circuitry	Action	Stock No.	Price Each
25136NAB	SPDT	On - On	96C6559	3.85
25139NAB	SPDT	On Off On	96C6561	2.71
25146NAB	DPDT	On - On	96C6563	6.00
25149NAB	DPDT	On Off On	96C6565	11.00

RIGHT-ANGLE ACTUATOR — .091" LONG — FIGURE 2

25336NA	SPDT	On - On	96C6567	3.85
25339NA	SPDT	On Off On	96C6569	2.71
25349NA	DPDT	On Off On	96C6573	8.85

VERTICAL ACTUATOR — .110" LONG — FIGURE 3

25136NAH	SPDT	On - On	96C6560	3.85
25139NAH	SPDT	On Off On	96C6562	3.85
25149NAH	DPDT	On Off On	96C6566	8.83

RIGHT-ANGLE ACTUATOR — .091" LONG — FIGURE 4

25536NA	SPDT	On - On	96C6583	2.42
25539NA	SPDT	On Off On	96C6584	2.71
25549NA	DPDT	On Off On	96C6586	8.85
25546NA	DPDT	On - On	96C6585	6.05

VERTICAL ACTUATOR — .110" LONG — FIGURE 5

25436NAH	SPDT	On - On	96C6577	2.42
25439NAH	SPDT	On Off On	96C6579	3.86
25446NAH	DPDT	On - On	96C6580	6.05
25449NAH	DPDT	On Off On	96C6582	8.85

(72947)

MINI AND SUBMINIATURE SLIDE SWITCHES



Fig. 1



Fig. 2



Fig. 3



Fig. 4

48A SERIES MINIATURE SLIDE SWITCHES

- Suffix QE in Mfg. part no.: Silver Contacts Rated for 5A @ 125VAC, 3A @ 250VAC
- Suffix RE in Mfg. part no.: Gold Contacts Rated for 0.4VA Max. @ 20V Max. (AC or DC)
- Epoxy Sealed
- Housing: Diallyl Phthalate UL94V-0
- Actuator: Nylon
- Operating Temperature: -35° to +85°C
- UL Recognized

48B SERIES SUBMINIATURE SLIDE SWITCHES

- Suffix QE in Mfg. part no.: Silver Contacts Rated for 3A @ 125VAC, 1.5A @ 250VAC
- Suffix RE in Mfg. part no.: Gold Contacts Rated for 0.4VA Max. @ 20V Max. (AC or DC)



Fig. 5

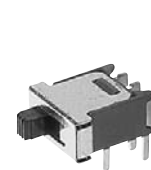


Fig. 6

- Epoxy Sealed
- Housing: Diallyl Phthalate UL94V-0
- Actuator: Nylon
- Operating Temperature: -35° to +85°C

MINIATURE SLIDE SWITCHES

Mfg. Part No.	Fig.	Circuitry	Function	Stock No.	Price Each
48ASSP1S1M1QAT	1	SPDT	On-None-On	14M8318	2.55
48ASSP1S1M2QBT	2	SPDT	On-None-On	14M7460	2.38
48ASSP1S1M2RBT	2	SPDT	On-None-On	04M2921	2.55
48ASSP3S1M2RBT	2	SPDT	On-Off-On	14M7466	2.55
48ASDP1S1M2QBT	2	DPDT	On-None-On	14M7459	3.45
48ASSP1S1M7QBT	3	SPDT	On-None-On	04M2923	2.55
48ASSP1S1M7RBT	3	SPDT	On-None-On	04M2924	2.73
48ASSP1S1M6RBT	4	SPDT	On-None-On	04M2922	2.67
48ASSP1S1M6QBT	4	SPDT	On-None-On	14M7462	2.55

➔ CONTINUED ➔

MINI AND SUBMINIATURE SLIDE SWITCHES (CONT.)

SUBMINIATURE SLIDE SWITCHES

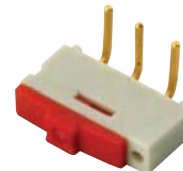
Mfg. Part No.	Fig.	Circuitry	Function	Stock No.	Price Each
48BFSP1M2QT	5	SPDT	On-None-On	04M2935	2.41
48BFSP1M2RT	5	SPDT	On-None-On	04M2936	3.33
48BFSP1M6QT	6	SPDT	On-None-On	04M2937	3.33

(72348)

1K2 SLIDE SWITCHES



Standard



Standard Right-Angle



Extended Actuator

Features:

- Recommended for PCB applications
- One of the most compact miniature single-pole changeover switches available
- Ideal as a jumper replacement
- Offered in straight or right angled versions
- Raised actuator version suitable for through-panel operation

Specifications:

- Gold over nickel contacts offer high reliability
- Sealed base for solvent cleaning; contact for details
- Clear actuated position indicator
- Operating life of 10,000 operations
- Stackable at 0.1" pitch
- SPDT contact



Extended Actuator Right-Angle

Mfg. Part No.	Actuator	Stock No.	Price Each
09.03201-02	Standard	52F516	1.26 1.20
09-10201-02	Standard, Right-Angle	52F517	1.70 1.62
09-03290-01	Extended	52F518	1.26 1.20
09-10290-01	Extended, Right-Angle	52F519	1.70 1.62

(5144)

R13 SERIES MINIATURE SLIDE SWITCHES



Just Added

Features:

- Nylon frame and actuator
- Silver plated brass terminals
- Snap-in mounting, easy install into panel

Specifications:

- Contact rating: 16A at 125Vac 1/3HP; 10A at 250Vac 1/2HP
- Contact resistance: 50mΩ
- Minimum insulation resistance: 500Vdc, 100MΩ
- Dielectric strength: 1500Vac for 1 minute



Mfg. Part No.	Current (A)	Circuitry	Action	Circuitry	Stock No.	Price Each
R13-608A1-02-BB-9A*	16	SPST	On-Off	Quick Connect	03P2509	1.69
R13-608C1-02-BB-5A	16	SPDT	On-None-On	Quick Connect	03P2510	2.03
R13-608C1-02-BB-9A*	16	SPDT	On-None-On	Quick Connect	03P2511	1.81
R13-608D1-02-BB-5A	16	SPDT	On-Off-On	Quick Connect	03P2512	1.90

* Actuator marked: On Off (142172)

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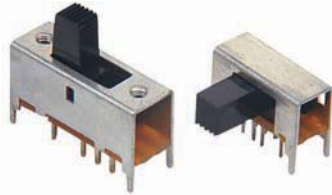
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(148829)

SWITCHES – SLIDE • SWITCHES – SNAP-ACTION

SLIDE SWITCHES -
PCB MOUNTING

- Contact resistance: <20mR
- Supply Voltage: 30VDC
- Contact Current: 0.3A



Double pole 3 position slide switches available in vertical or right angle PCB mounting.

Mfg. Part No.	PCB Mount	Operating Force (gf)	Dimensions (L x W x Hmm)	Stock No.	Price Each
● SP112	Vertical	250 +/-100	25 x 8 x 19.5	26M3393	1.80
● SN1010-DP3T	Right angle	300 +/-100	18 x 6.6 x 14	26M3202	1.80

(116546)

MOMENTARY ACTION
SLIDE SWITCHES

Specifications:

- Current switching: 25mA at 24Vdc
- Contact resistance: 70mΩ max
- Insulation resistance: 100MΩ at 100Vdc
- Dielectric strength: 100Vac for 1 minute
- Operating temperature: -10°C to +60°C
- Electrical life: 10,000 operations min

Features:

- Momentary action SPDT
- Operating force 180gf ± 70gf
- Long life of 10,000 cycles
- Height 2mm, Width 11mm, Depth 3.5mm

Mfg. Part No.	Current (mA)	Circuitry	Actuator Position	Stock No.	Price Each
● MCSSS-12LG	25	SPDT	Left	74M3070	0.92
● MCSSS-12RG	25	SPDT	Right	74M3071	0.92

(116539)

MSSA-04 HIGH-
CURRENT SLIDES

PC board instrumentation-grade units have non-shorting silver contacts rated 3A at 115VAC. Case material is polyester and nylon; moving contacts copper alloy. Life expectancy: 30,000 cycles.



MSSA104D



Mfg. Part No.	Action	Circuit	Stock No.	Price Each
● MSSA104D	SPDT	On-None-On	10F7821	5.20 4.87 4.58
● MSSA204N	DPDT	On-None-On	10F7824	5.18 4.86 4.56

(4727)

ASE/F SERIES AUTO-
INSERTABLE SLIDES

Fig. 1



Fig. 2

Just Added

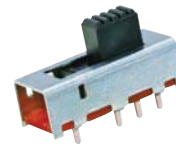
Units withstand aqueous or solvent cleaning processes. High temperature antistatic plastic withstands surface mount, vapor phase reflow or wave soldering. **ASE series:** extended actuator open-ended case allows washout after cleaning. **Mfg. part no. ASF-42:** DIP package with flush actuator allows auto insertion on standard IC equipment. Tape seal and closed case provide process seal. Bezel length 0.260" (6.60). "R" in mfg part no indicates side actuator. "G" in mfg. part no. indicates gold contacts. Surface mount terminals (not shown) 0.100" (2.54) on center; go online or call Newark.

Mfg. Part No.	Fig.	Circuitry	Stock No.	Price Each
● ASE2204	1	DPDT	69K7031	4.66 4.19
● ASE22RG	1	DPDT	11H4193	4.89 4.39
● ASE-42	1	4PDT	87F1672	2.37 2.13
● ASE-62	1	6PDT	87F1673	5.74 5.34
● ASF2204	2	DPDT	69K7032	3.99 3.58
● ASF-42	2	4PDT	87F1663	4.13 3.74

(4745)

STS SERIES CONSUMER
GRADE MINIATURE SLIDES

PC mount units have silver-plated, bifurcated contacts rated 300mA at 125VAC/30VDC. Initial contact resistance: 20mΩ maximum. 2.5mm pin spacing, wave solderable and washable.



Mfg. Part No.	Circuit	Stock No.	Price Each
● STS121PC04	SPDT	16M2477	1.27 1.13 1.03 0.99
● STS220PC04	DPDT	16M2479	2.45 2.18 1.98 1.90
● STS2400PC04	DP4T	10M9121	3.07 2.73 2.48 2.38

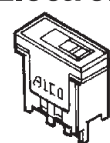
(4747)

TSS-PC, TSS-RA
SUBMINIATURE SLIDES

Non-shorting, gold-plated contacts: 0.4VA max. at 20VDC or peak AC. Pin spacing: 0.100" (2.54) on centers. Actuator height: 0.10" (2.54). Instrument grade. **TSS-RA** units are right angle terminals.



TSS11DG-RA



TSS11DG-PC

Mfg. Part No.	Circuitry	Action	Stock No.	Price Each
● TSS11DGPC04	SPDT	On-None-On	16M2498	4.98 4.66 4.38 4.14
● TSS21NGPC04	DPDT	On-None-On	16M2501	8.49 7.75 7.31 6.71
● TSS11DGRA04	SPDT	On-None-On	16M2499	5.21 4.62 4.20 4.04
● TSS21NGRA04	DPDT	On-None-On	16M2502	10.18 9.89 9.61 8.80
● TSS41NG-PC	4PDT	On-None-On	77B9251	13.10 12.34 11.34 10.58
● TSS41NG-RA	4PDT	On-None-On	77B9252	14.58 13.74 12.62 11.78

(4750)

C&K TM SERIES MINIATURE
SNAP-ACTION SWITCHES

Features:

- High electrical life up to 15A
- Broad range of operating forces available
- Wide variety of actuator and terminal styles
- Ideal for pumps and motors, white goods, consumer appliances

Specifications:

- SPDT
- 0.187" Quick-Connect Termination
- Contact Rating: Up to 10A, 250VAC
- Electrical life: 150,000 cycles
- Mechanical life: 1,000,000 cycles
- Insulation resistance: 1000Mohms min
- Operating Temperature: -55°C to +150°C
- Movable contacts: Gold alloy for ratings - 1A at 125VAC or less; Fine Silver for ratings - Above 1A
- Mounting: Torque Screws 2-5 In-lb.



Pin Plunger

Mfg. Part No.	Operating Force (g)	Release Force (g)	Actuator	Stock No.	Price Each
● TMC6D6ST2740C	17	3	Hinge Lever	93F2787	3.17 3.01
● TMC6D6ST1540C	45	9	Hinge Lever	07F030	3.15 2.99
● TMC6D6SA1540C	45	10	Roller Lever	07F031	5.65 5.42
● TMC6D6ST1440C	50	10	Simulated Roller Lever	07F032	3.15 2.99
● TMC6D6ST1840C	75	4	Short Lever	07F033	3.17 3.01
● TMC6D6SP0040C	75	28	Pin Plunger	07F028	3.76 3.60
● TMC6D6SP004AC	75	28	Pin Plunger	08C8089	3.76 3.60
● TMC6D6SA1040C	90	28	Roller Lever	07F029	5.60 5.38

(31871)



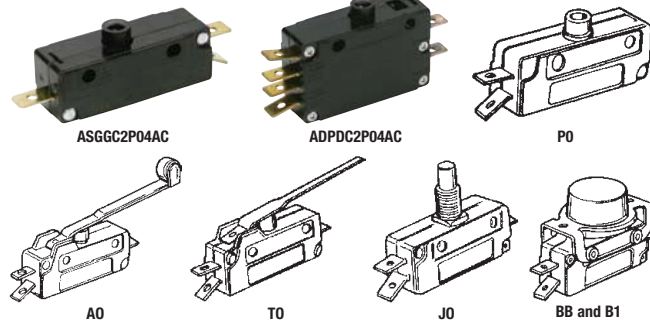
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(148833)

SWITCHES – SNAP-ACTION

C&K A SERIES GENERAL PURPOSE SNAP-ACTING SWITCHES



- Rated: 15A @ 125/250VAC; ¾HP, 125VAC; ½HP, 250VAC
- Contacts - fine silver, with 0.250" (6.35) quick-connect terminals
- Mounting holes will accept pins or screws of 0.139" (3.53) dia. max. on centers 1.000" (25.40)
- Contact separation: .020" (0.508)

To determine actuator type, see code below and use legend: **P0** = Pin Plunger, **L0** = Integral Leaf, **T0** = Hinged Lever, **A0** = Hinged Roller Lever, **J0** = Plunger, **BB** = Large Red Button, **B1** = Large Black Button.

SPDT

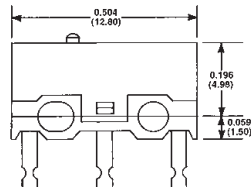
Mfr. Part No.	Operate Force (Oz.)	Release Force (Oz.)	Actuator Code	Stock No.	Price Each		
					1-24	25-99	100-249
ASKHC2T04AC	4	0.5	T0	07F036	4.57	4.39	3.36
ASKHC2A04AC	4	0.5	A0	07F037	5.50	5.29	4.05
ASKHC2P04AC	20	3	P0	07F034	8.41	8.08	6.16
ASKHC2J04AC	20	3	J0	07F038	5.04	4.85	3.71
ASKHC2BB4AC	20	3	BB	07F039	7.37	7.08	5.41
ASKHC2B14AC	20	3	B1	07F040	7.37	7.08	5.41

DPDT

ADPDC2T04AC	30	1	T0	29C6911	9.03	8.68	6.62
ADPDC2J04AC	30	6	J0	07F002	8.27	7.95	6.07
ADPDC2W04AC	30	...	WO	70B9207	8.51	8.18	6.24

(4966)

DG SERIES SUBMINIATURE SNAP-ACTION SWITCHES



- SPDT
- Wave Solderable Printed Circuit Terminals

- UL and cUL recognized

Mfg. Part No.	Actuator	Stock No.	Price Each	
			1-9	10-49
DG13-B1AA	Button	48F5774	1.92	1.73
DG13-B1LA	Lever	48F5775	2.22	2.00
DG13-B1RA	Roller	98B1158	4.18	3.78
DG23-B1AA	Button	13C5638	1.92	1.73
DG23-B1LA	Lever	13C5639	2.27	2.05
DG23-B1RA	Roller	89F2388	4.45	4.03
DG23-B3LA	Lever	98B1166	2.27	2.05

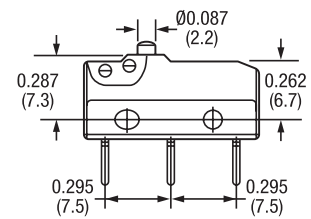
(7494)

Expert technical support

Chat online to our team of engineers, or connect to them through your representative.

(148838)

DB SERIES SUBMINIATURE SNAP-ACTION SWITCHES



- Terminals Are Brass Silver-Plated, Sealed
- Base, Cover and Actuator Are Thermoplastic Polyester
- DB1 and DB2 Series Have Silver-Nickel Contacts; DB3 Series Has Gold Crosspoint Contacts
- Temperature Rating: -40°C to +85°C
- Pretravel: 0.039 Max.
- Overtravel: 0.023 Min.
- Operating Force: DB1 and DB3 Series 150 gms Max.; DB2 Series 250 gms Max.
- UL Recognized, CSA Certified, VDE Approved

5A RATED SWITCHES

Mfg. Part No.	Actuator Length	Description	Stock No.	1-24	25-49
DB1A-C1AA	...	.051 PCB Terminals, NO Contacts, Button Only	28C0406	1.59	1.41
DB1C-A1AA	...	.110 Solder Terminals, Button Only	98B1155	1.49	1.33
DB1C-A1LB	0.189	.110 Solder Terminals, Straight Lever	07C0838	2.13	1.89
DB1C-B1AA	...	.110 QC Terminals, Button Only	94B5270	1.61	1.43
DB1C-B1RC	0.185	.110 QC Terminals, Roller Lever	85C3142	3.02	2.69
DB1C-C1AA	...	.051 PCB Terminals, Button Only	98B1156	1.49	1.33
DB1C-D1AA	...	.024 PCB Terminals, Button Only	98B1157	1.60	1.42

10A RATED SWITCHES

DB2C-A1AA	...	.110 Solder Terminals, Button Only	28C0414	1.61	1.43
DB2C-A1RC	0.185	.110 Solder Terminals, Roller Lever	50H7632	3.00	2.67
DB2C-B1RC	0.185	.110 QC Terminals, Roller Lever	50H7633	2.98	2.65
DB2C-C1AA	...	.051 PCB Terminals, Button Only	24C7162	1.63	1.45

0.1A RATED SWITCHES

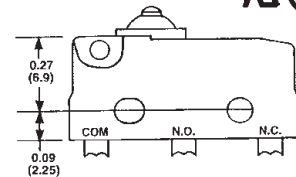
DB3C-A1AA	...	.110 Solder Terminals, Button Only	08H1209	1.75	1.56
DB3C-B1LB	0.189	.110 QC Terminals, Straight Lever	23H0142	2.27	2.02
DB3C-B1RC	0.185	.110 QC Terminals, Roller Actuator	50H7634	6.80	6.05
DB3C-C1AA	...	.051 PCB Terminals, Button Only	50H7635	1.75	1.56

(75438)

SEALED SUB-MINIATURE SNAP-ACTION SWITCHES



- Dust and Waterproof in Accordance with IP67
- Temperature Rating: -40°C to +120°C w/o Wire Leads
- Overtravel: AA suffix: 0.02", LB & RB suffix: 0.06"

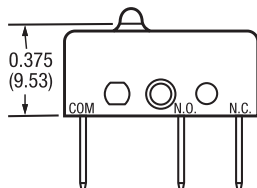


DC series subminiature SPDT switches have long life stainless steel, thermoplastic case and cover. Available in three current ratings: **DC1 5A**, **DC2 10.1A** and **DC3 0.1A**. UL recognized, CSA certified. Go online or call for information on bulk purchase price breaks.

Mfg. Part No.	O.F. (CIV)	Max P.T. (in)	Termination	Actuator	Stock No.	Price Each
DC1C-A1AA	200	.04	Short Solder, 30° twisted	Button	46F5540	4.96
DC1C-A1LB	80	.18	Short Solder, 30° twisted	0.189" Lever	46F5543	5.60
DC1C-A1RB	90	.18	Short Solder, 30° twisted	0.098" Roller	95F9728	8.00
DC2C-A1LB	150	.20	Short Solder, 30° twisted	0.189" Lever	46F5544	6.71
DC2C-A1RB	160	.20	Short Solder, 30° twisted	0.098" Roller	95F9730	6.86
DC2C-A1AA	200	.04	Short Solder, 30° twisted	Button	90B5088	5.69
DC3C-A1AA	200	.04	Short Solder, 30° twisted	Button	46F5542	5.37
DC3C-A1LB	80	.18	Short Solder, 30° twisted	0.189" Lever	46F5545	6.57
DC3C-MSRB	90	.18	20 AWG Wire Underneath	0.098" Roller	04M4510	15.62

(5016)

SWITCHES – SNAP-ACTION

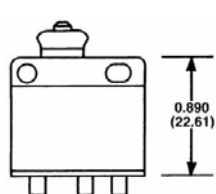
E61, E62 AND E63
SUBMINIATURE
SNAP-ACTION
SWITCHES

- SPDT
- Switch Body: 0.781L x 0.0250W x 0.375"H

UL recognized, CSA certified.

Series	Rating
E61	5A @ 125/250VAC
E62	10.1A @ 125/250VAC, ¼ HP @ 125VAC
E63	0.1A @ 125VAC, Gold Crosspoint Contacts
E68	0.1A @ 125VAC, Gold Crosspoint Contacts

Mfg. Part No.	Terminal	Actuator Style	Actuation Length†	Stock No.	Price Each	
● OE61-00AO	.093 QC	Button	...	29F2908	3.74	3.38
● OE61-00HO	.093 QC	Lever Standard Ratio	0.271"	29F2909	5.58	5.04
● OE61-00KO	.093 QC	Roller Standard Ratio	0.203"	29F2910	5.72	5.16
● OE61-10AO	SS	Button	...	29F2911	3.74	3.38
● OE61-10HO	SS	Lever Standard Ratio	0.271"	29F2912	5.37	4.85
● OE61-10KO	SS	Roller Standard Ratio	0.203"	29F2913	5.72	5.16
● OE61-30AO	.110 QC	Button	...	44F660	3.74	3.38
● OE61-30KO	.110 QC	Roller Standard Ratio	0.203"	98F1181	5.72	5.16
● OE61-50HO	.093 QC	Lever High Ratio	0.396"	94F3233	5.33	4.81
● OE61-60HO	SS	Lever High Ratio	0.396"	84F513	5.37	4.85
● OE62-00AO	.093 QC	Button	...	29F2914	4.22	3.81
● OE62-00HO	.093 QC	Lever Standard Ratio	0.271"	29F2915	5.05	4.56
● OE62-00KO	.093 QC	Standard Ratio	0.203"	29F2916	6.17	5.57
● OE62-10AO	SS	Button	...	29F2917	4.22	3.81
● OE62-10HO	SS	Lever Standard Ratio	0.271"	94F3235	5.28	4.77
● OE62-10KO	SS	Roller Standard Ratio	0.203"	29F2918	6.17	5.57
● OE62-30AO	.110 QC	Button	...	94F6213	4.22	3.81
● OE62-30HO	.110 QC	Lever Standard Ratio	0.271"	94F3206	4.81	4.34
● OE62-30KO	.110 QC	Roller Standard Ratio	0.203"	50F7457	6.17	5.57
● OE62-50HO	.093 QC	Lever Standard Ratio	0.396"	84F516	5.58	5.04
● OE62-60HO	SS	Lever Standard Ratio	0.396"	94F6214	3.29	2.97
● OE63-00AO	.093 QC	Button	...	94F3237	4.81	4.34
● OE63-00HO	.093 QC	Lever Standard Ratio	0.271"	29F2919	5.10	4.61
● OE63-00KO	.093 QC	Roller Standard Ratio	0.203"	84F517	5.98	5.40
● OE63-10AO	SS	Button	...	94F3238	6.69	6.04
● OE63-10HO	SS	Lever Standard Ratio	0.271"	94F3207	5.34	4.82
● OE63-10KO	SS	Roller Standard Ratio	0.203"	94F3208	5.77	5.21
● OE63-30AO	.110 QC	Button	...	50F7460	4.73	4.27
● OE63-30KO	.110 QC	Roller Standard Ratio	0.201"	94C4578	5.93	5.35
● OE63-50HO	.093 QC	Lever High Ratio	0.396"	94F6170	6.82	6.15
● OE68-40AO	.187 QC	Button	0.420"	50F7470	6.28	5.67

†Actuation length is distance from centerline of the round switch mounting hole to tip of actuator.
(5105)E72 SERIES WEATHERPROOF
SNAP-ACTION SWITCHES

- Rated 10.1A, ¼HP, 125/250VAC
- Temperature range: -40°C to +85°C

Weatherproof switches with 10" leads. Silver alloy contacts. Stainless steel actuator. E73 series gold crosspoint versions for low-energy applications also available; go online or call.

➤ CONTINUED ➤

E72 SERIES WEATHERPROOF SNAP-ACTION SWITCHES (CONT.)

Mfg. Part No.	Style	O.F. (grms.)	P.T. (in.)	O.T. (in.)	Stock No.	Price Each	
● OE72-40AT	Button	300	0.04	0.035	04M4652	13.59	12.03
● OE72-40HT	Lever	67	0.275	0.100	31C9477	14.48	12.82
● OE72-40KT	Roller	75	0.240	0.125	04M4654	16.40	14.52

(5099)

D4 SERIES
MINIATURE SNAP-
ACTION SWITCHES

- Switch Body: 0.875 L x 0.406W x 0.625" H (22.23 x 15.88 x 10.31)
- SPDT; Contact Rating: 0.181"
- Temperature Rating: -40° to +85°C
- Flammability Rating: UL94V-0



Series	Rating
D41	0.1A @ 125VAC, Gold Crosspoint Contacts
D42	3A @ 125/250VAC, Silver Alloy

STANDARD OPERATING FORCE

Mfg. Part No.	Operating Force (g)	Actuator Style	Actuation Length (in.)	Stock No.	Price Each	
● D41C-R1AA	75	Button Actuator	...	89C0540	4.77	4.31
● D41CR1RA	90	Roller Lever	...	88H6740	5.44	4.91
● D43CR1AA	170	Plunger	...	88H6753	2.59	2.34
● D43C-R1RA	170	Roller Standard Ratio Actuator	0.81	71M0399	4.17	3.77
● D44C-R1AA	285	Button Actuator	...	87F3040	2.99	2.70
● D45C-R1AA	400	Button Actuator	...	87F3057	3.12	2.82

LIGHT OPERATING FORCE

● D41LR1XL	...	Hinge Lever	...	88H6743	4.83	4.37
● D42L-R1AA	15	Button Actuator	...	12C8657	2.69	2.16
● D42L-R1XL	2	Lever High Ratio Actuator	2.932	36H3808	4.79	4.33
● D43L-R1ML	6	Lever High Ratio Actuator	2.934	17B5873	4.07	3.67
● D44L-R1AA	75	Button Actuator	...	71M0400	2.55	2.05
● D44L-R1LD	37	Lever Standard Ratio Actuator	1.4	93B5484	2.77	2.22
● D44L-R1ML	10	Lever High Ratio Actuator	2.934	87F3039	3.39	3.07
● D44L-R1RA	75	Roller Standard Ratio Actuator	0.81	93B6002	3.36	2.69
● D45L-R1AA	100	Button Actuator	...	30C1638	3.12	2.82
● D45L-R1LL	22	Lever Standard Ratio Actuator	2.757	17B5884	2.91	2.33
● D45L-R1MD	30	Lever High Ratio Actuator	1.58	71M0401	3.17	2.54
● D45L-R1ML	13	Lever High Ratio Actuator	2.934	17B5886	3.36	2.69

11PC MINI SNAP ACTION SWITCH KIT

Mfg. Part No.	Description	Stock No.	Price Each
● WCHY-4445	(2) D42LR1AA: 3A, SPDT, 0.187" Q.C., Button (2) D43CR1RA: 5A, SPDT, 0.187" Q.C., Roller, 0.810" (2) D44LR1RA: 10A, SPDT, 0.187" Q.C., Roller, 0.810" (2) D44LR1LD: 10A, SPDT, 0.187" Q.C., Lever, 1.40" (2) D44LR1AA: 10A, SPDT, 0.187" Q.C., Button (1) D45LR1LL: 15A, SPDT, 0.187" Q.C., Lever, 2.757"	08N3565	46.46

(75188)

E51 AND E53 SERIES
MINIATURE LOW-TORQUE
SNAP-ACTION SWITCHES

- Contact rating: E53 series: 0.1A @ 125VAC; E51 series: 6A @ 250VAC
- 4.0" Gram Operating Force
- 1.218L x 0.687W x 0.875"H (30.94 x 17.45 x 22.23)

Low-torque switches feature combination quick-connect/solder terminals. UL recognized, CSA certified. Order wireform actuator separately below.

Mfg. Part No.	Solder/Q.C. Terminals	Direction of Actuator	Stock No.	Price Each	
● OE53-00B0	Std. Parallel, 0.205"	Clockwise	50F7474	12.11	10.88
● OE53-00R0	Std. Parallel, 0.187"	Clockwise	05M6452	12.91	11.60
● OE51-00R0	Std. Parallel, 0.187"	Clockwise	06M4894	10.72	9.64
● OE51-50E0	Vertical Twist, 0.205"	Counter-Clockwise	71M0411	10.51	9.44
● OE51-50T0	Vertical Twist 0.187"	Counter-Clockwise	01M9537	10.31	8.91

➤ CONTINUED ➤

SWITCHES – SNAP-ACTION

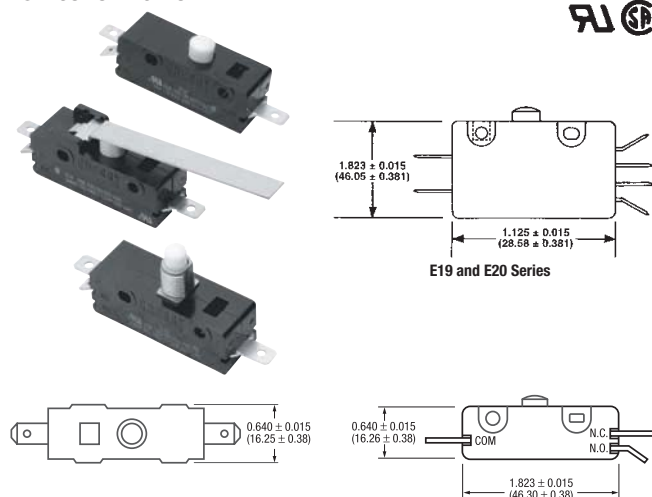
E51 AND E53 SERIES MINIATURE LOW-TORQUE SNAP-ACTION SWITCHES (CONT.)

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each	
			1-9	10-49
● 0014-0645	Wireform Actuator	46F5561	0.19	
● 0E51-50T0	Wireform Actuator	01M9537	10.31	

(5080)

E13, E14, E19, AND E20 SERIES GENERAL PURPOSE SWITCHES



- E13/E14 SPDT contacts
- E19/E20 DPDT contacts
- E13/E19 rated at 15A 125/250VAC

- E14 rated 25A 125/250VAC
- E20 rated 20A 125/250VAC

0.250" quick-connect terminals are standard. Temperature rating to 105°C standard. Silver cadmium oxide contacts.

BUTTON ACTUATOR

Mfg. Part No.	O.F. (grms.)	P.T. (in.)	O.T. (in.)	Actuator Length (in.)	Stock No.	Price Each	
						1-9	10-49
● OE13-00EO	425	0.050	0.100	...	29F2875	3.26	2.89
● OE13-00MO	425	0.050	0.218	...	29F2879	4.81	4.28
● OE14-00MO	850	0.100	0.168	...	85C0862	5.73	5.09
● OE19-00AO	850	0.050	0.080	...	29F2881	7.15	6.35
● OE19-00JO	850	0.050	0.080	...	50F7473	9.40	8.35
● OE19-00MO	850	0.050	0.218	...	29F2883	8.93	7.93
● OE20-00AO	1280	0.100	0.050	...	94F388	10.71	9.51
● OE20-00MO	1280	0.100	0.188	...	98B1412	11.93	10.60
● OE13-00JO	425	0.050	0.108	...	29F2877	3.81	3.39

LEVER ACTUATOR, STANDARD RATIO POSITION

● OE13-00HO	100	0.250	0.187	1.500	29F2876	4.65	4.13
● OE14-00HO	285	0.312	0.150	0.821	17B5898	5.98	5.31
● OE19-00HO	205	0.275	0.187	1.500	29F2882	8.51	7.56

LEVER ACTUATOR, HIGH RATIO POSITION

● OE13-50HO	65	0.343	0.187	1.750	94F6205	4.65	4.13
● OE19-50HO	130	0.400	0.187	1.750	29F2884	7.84	6.97

ROLLER ACTUATOR, STANDARD RATIO POSITION

● OE13-00KO	100	0.250	0.187	1.391	29F2878	5.62	4.99
● OE19-00KO	212	0.250	0.187	1.391	84F509	9.79	8.70
● OE14-00KO	285	0.348	0.130	0.652	33C3674	6.04	5.36
● OE20-00KO	425	0.348	0.156	0.652	78B2127	12.60	11.19

ROLLER ACTUATOR, HIGH RATIO POSITION

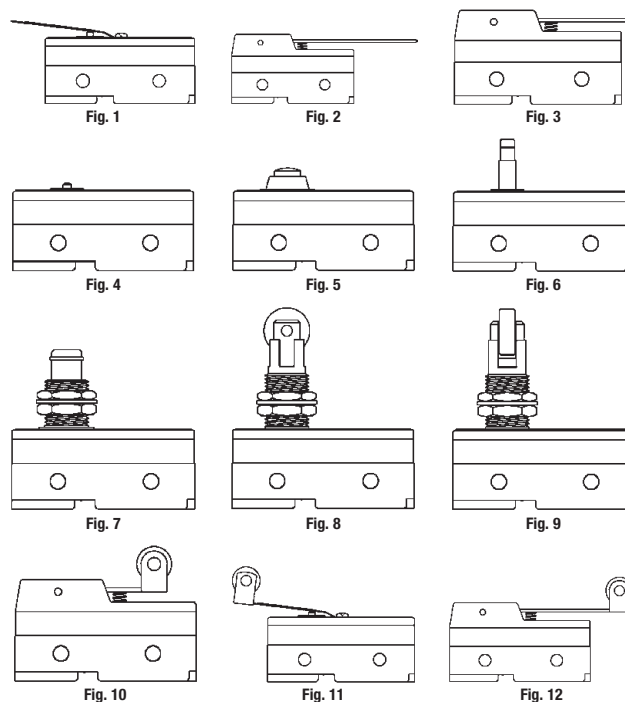
● OE19-50KO	150	0.312	0.187	1.645	71M0408	10.01	8.90
● OE20-50KO	312	0.525	0.146	1.645	94F1285	12.29	10.92

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each	
			1-9	10-49
● 12-0023	Brass Hex Nut	17B6070	0.17	0.15

(5082)

GP SERIES HEAVY-DUTY SNAP-ACTION SWITCHES



Specifications:

- Rugged phenolic case
- Beryllium copper alloy spring
- Stainless steel actuator
- Pre-travel distances as small as .016"
- SPDT, GPTC rated to 15A at 250VAC
- GPTB rated to 20A at 125VAC
- Temperature range: -20°C to +85°C
- All versions: L = 1.97"; W = 0.687"
- Figures 2, 3, 10, 12: H = 1.047"; All Others: H = 0.84"

Features:

- Current switching up to 20A
- Ideal for factory automation, elevators

Mfg. Part No.	Fig	Terminal Type	O.F. (oz)	O.T. (in)	Stock No.	Price Each	
						1-9	10-49
● GPTCLR11	1	Screw	5.3	0.063	08N9759		10.05
● GPTBLR11	1	Screw	12.3	0.157	12M6681		10.44
● GPTCLS11	2	Screw	2.4	0.22	04M4527		9.26
● GPTCLS12	3	Screw	3.1	0.165	01J1619		9.00
● GPTCNA11	4	Screw	12.3	0.005	01J1620		7.40
● GPTBNA01	4	Screw	22.9	...	12M6684		8.30
● GPTCNC11	5	Screw	12.3	0.063	04M4529		9.77
● GPSCNC11	5	Solder Lug	12.3	0.063	04M4523		9.54
● GPTCND11	6	Screw	12.3	0.063	01J1622		10.69
● GPTCNH11	7	Screw	12.3	0.217	04M4531		15.14
● GPTCRH11	8	Screw	12.3	0.14	04M4532		22.26
● GPSCRH11	8	Solder Lug	12.3	0.14	04M4524		21.82
● GPTCRH12	9	Screw	12.3	0.14	04M4533		22.25
● GPTCRM11	10	Screw	5.6	0.095	01J1626		11.58
● GPTBRM11	10	Screw	6.3	0.106	12M6692		12.09
● GPSCRM11	10	Solder Lug	5.6	0.095	04M4525		11.33
● GPTCRR11	11	Screw	5.3	0.063	01J1627		10.53
● GPTCRS11	12	Screw	3.5	0.158	04M4535		11.58

(74288)

SWITCHES – SNAP-ACTION

MICRO SWITCH™ BASIC SWITCHES SM SERIES SUBMINIATURE



Just Added

Honeywell
Sensing and Control


Features:

- Premium subminiature switch for high cost of failure applications
- Small size, light weight
- Covered case construction with molded in terminals
- Applications: Aerospace, valve control

Specifications:

- Circuitry: SPDT
- Operating temperature: -65°F to +185°F
- Wear-resistant phenolic base and cover
- Code J: 5A res., 3A ind., at 28VDC, 250A
- Code K: 5A at 125 or 250VAC
- Code M: 11A and 1/4-HP at 125 or 250VAC
- Code N: 1A res., 0.5A ind. at 30VDC
- Code S: 4A at 250VAC

PIN PLUNGERS

Mfg. Part No.	Current (A)	Operating Force (oz)	Over Travel (mm)	Termination	Code	Stock No.	Price Each
11SM1077-T	0.1	5	0.13	Solder Lug	...	90B7749	7.86
11SM23-T	1	5	0.127	Solder Lug	N	73K2463	8.78
11SM23-H4	1	5	0.13	Solder Lug	N	91B9462	11.53
1SM1*	5	5	0.127	Solder Lug	K	23F4086	7.72
1SM1-T	5	5	0.127	Solder Lug	K	20M8581	8.64
11SM1*	5	5	0.127	Solder Lug	J	73K2460	4.82
11SM1-T	5	5	0.127	Solder Lug	J	10M5315	4.07
11SM1-T2	5	5	0.127	Solder Lug	J	73K2462	5.84
11SM1-H2	5	5	0.127	Through Hole	J	73K2461	4.10
11SM3-***	5	5	0.127	Solder Lug	J	05M2286	5.30
11SM401-T	5	5	0.127	Solder Lug	K	73K2465	10.51
11SM244	5	5	0.13	Solder	K	23F2102	6.25
11SM601-H4	5	5	0.13	Quick Connect	K	23F2106	4.61
41SM1*	5	7.5	0.127	Solder Lug	K	73K2507	13.22
41SM1-T	11	5	0.127	Solder Lug	M	23F2202	6.29

FIXED LEVER ARM

311SM703-T	4	0.2	1.45	Solder Lug	S	78K5282	6.57
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SIMULATED ROLLER LEVER

311SM25-T	1	40	0.46	Screw	N	93B3826	17.35
311SM4-T	5	1.4	0.48	Solder Lug	J	73K2489	5.06
311SM5-T	5	1.1	0.66	Solder Lug	J	73K2490	5.86

INTEGRAL LEAF

311SM23-T	1	1.4	0.51	Solder Lug	N	73K4053	11.85
311SM1-T	5	1.4	0.51	Solder Lug	J	23F4375	6.53
311SM2-T	5	1.1	0.66	Solder Lug	J	23F2289	6.31
311SM2-H58		1.1		Quick Connect		23F2288	6.68
311SM3-T	5	0.53	1.45	Solder Lug	J	73K2488	8.56
111SM1-T	5	7	0.76	Solder Lug	J	73K2467	10.20
111SM1*	5	7	0.76	Solder Lug	J	73K2466	8.08

ROLLER LEVER

311SM68T	1	1.4	0.48	Solder Lug	N	05M2826	12.96
311SM706-T	4	0.57	0.48	Solder Lug	S	73K2497	6.97
311SM6-T	5	1.4	0.48	Solder Lug	J	73K2492	5.64
111SM2-T	5	7	0.76	Solder Lug	J	10M5316	7.90
111SM23T	5	7	0.76	Solder Lug	N	91B2776	19.82
111SM2*	5	7	0.76	Solder Lug	J	73K2468	9.47

* Denotes solder terminals. ** Denotes temp rated to +250°F.
(4917)

MICRO SWITCH™ BASIC SWITCHES SX SERIES SUBMINIATURE


Honeywell
Sensing and Control

Features:

- Premium sub-miniature switch for high cost of failure applications
- Small size, light weight
- Covered case construction
- Applications: Aerospace, valve control, medical/dental equipment

Specifications:

- SPDT arrangement
- Temperature tolerance: -65°F to +250°F standard
- Mechanical life: up to 10 million cycles
- Wear resistant phenolic base and cover
- Elongated mounting hole for easier, more accurate mounting
- Long-life beryllium-copper spring
- Cover securely cemented to base



➤ CONTINUED ➤

MICRO SWITCH™ BASIC SWITCHES SX SERIES SUBMINIATURE (CONT.)

PIN PLUNGER ACTUATOR

Mfg. Part No.	Amps	O.F. (oz)	D.T. Max. (in.)	O.P. (in.)	Stock No.	Price Each
12SX1-T	1	5	0.003	0.32 in	23F2143	20.14 17.18
413SX21-T	1	5	...	8.13 mm	99F2950	17.47 16.30
411SX21T	2	5	...	8.13 mm	39B8351	11.53 10.76
11SX1-T	5	3.5	0.001	0.32 in	23F2110	12.29 10.48
11SX21-T	5	5	0.002	0.32 in	23F4180	10.64 9.08
17SX21T	5	5	...	8.13 mm	24C9771	39.99 37.32
2SX1-T	7	3	0.005	0.32 in	23F1975	13.39 12.50
1SX1-T	7	5	0.005	0.32 in	73K1391	8.67 8.09
1SX48-T	7	5	0.005	0.32 in	23F1888	14.05 11.98
21SX39-T	7	5	0.005	0.32 in	23F2184	5.64 5.12
1SX1-H58	7	5	...	8.13 mm	23F1886	10.84 9.24
21SX39-T2	7	5	...	8.13 mm	23F2185	6.77 6.32
4SX36T	7	5	...	0.32 in	39B8056	13.83 11.80
1SX74T	7	5	...	8.13 mm	98B6163	25.82 24.10

LEVER ACTUATOR

311SX1-T	5	1.76	0.02	0.332 in	23F2298	13.58 11.58
311SX2-T	5	1.1	0.035	0.325 in	23F4193	14.15 10.73
311SX3-T	5	0.71	0.06	0.305 in	23F4194	9.90 9.24

SIMULATED ROLLER LEVER ACTUATOR

311SX4-T	5	2.1	0.015	0.557 in	23F2299	17.13 16.30
311SX5-T	5	1.1	0.035	0.585 in	23F2300	14.28 10.83

(4919)

MICRO SWITCH™ AUXILIARY ACTUATORS FOR SM AND SX STYLE SWITCHES


Honeywell
Sensing and Control


Provide basic switches (not included) with an easier means of operation and adjustment. Auxiliary actuators adapt switches to different operating motions by supplying supplemental overtravel. Mounting hardware included.

ACTUATORS FOR SM SERIES

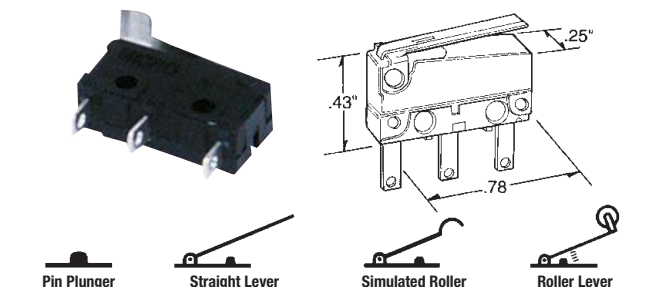
Mfg. Part No.	Description	Actuator Length	Operating Force Max. (oz)	Over Travel Min.	Stock No.	Price Each
JS-2	Straight Leaf	0.66" (16.76)	10	0.015" (0.38)	23F4053	4.09
JS-5	Bronze Roller Leaf	0.59" (14.99)	10	0.015" (0.38)	23F4054	5.84
JS-7	Simulated Roller Leaf	0.58" (14.73)	10	0.031" (0.79)	23F4750	4.24
JS-220	Straight Lever	1.03" (26.2)	10	0.030" (0.76)	23F4059	5.76

ACTUATORS FOR SX SERIES

JX-20	Straight Lever	0.72" (18.3)	1	0.030" (0.76)	23F4773	5.67
JX-25	Roller Lever	0.65" (16.5)	1.5	0.020" (0.51)	23F4774	13.50
JX-40	Straight Leaf	0.37" (9.4)	7	0.015" (0.38)	94F5337	2.51
JX-44	Hinge Lever	0.37" (9.4)	7	0.015" (0.38)	23F4777	2.13
JX-45	Roller Leaf	0.24" (6.1)	7	0.015" (0.38)	23F4779	6.26

(4918)

MICRO SWITCH™ BASIC SWITCHES ZM AND ZW SERIES SUBMINIATURE SNAP-ACTING


Honeywell
Sensing and Control


Features:

- Cost-Effective, Rugged Construction
- Variety of Termination and Lever Options
- Low-energy or power-duty ratings
- ZW series is sealed, IP67 rated

Specifications:

- Operating temperature: -25°C to +85°C
- Contact rating: 0.1A at 125VAC; 1A, 5A and 10A at 125/250VAC

➤ CONTINUED ➤

SWITCHES – SNAP-ACTION

MICRO SWITCH™ BASIC SWITCHES ZM AND ZW SERIES SUBMINIATURE SNAP-ACTING (CONT.)

Applications:

- Vending machines
- Communication equipment
- HVAC equipment

PIN PLUNGER ACTUATOR

Mfg. Part No.	Circuitry	Current Rating (A)	Operating Force (g)	Termination	Stock No.	Price Each		
						1-49	50-99	100-249
● ZM10B70A01	SPDT	0.1	60	Quick Connect	35C2227	1.83	1.69	
● ZM50E10A01	SPDT	5.0	150	Solder	05M2162	0.59	0.55	
● ZW50F15AD1	SPDT	5.0	203	Solder	71J8985	2.69	2.50	

FIXED LEVER ARM ACTUATOR

● ZM50E10C01	SPDT	5.0	35	Solder	05M2163	1.62	1.50	
● ZW10E15CD1	SPDT	0.1	66	Solder	64J3928	5.09	...	

SIMULATED ROLLER ACTUATOR

● ZM50E10E01	SPDT	5.0	35	Solder	05M2164	1.51	1.40	
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ROLLER LEVER ACTUATOR

● ZW10E70FD1	SPDT	0.1	72	Quick Connect	71J8984	3.72	3.45	
● ZW10E90FW1	SPDT	0.1	72	20" Wire Leads	86C1708	10.88	10.08	
● ZM90G20F01	SPDT	10.1	35	PCB	86C1690	1.66	1.54	

(69586)

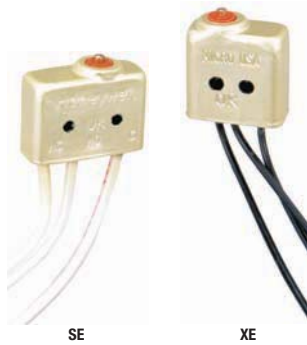
MICRO SWITCH™ BASIC SWITCHES SE/XE SERIES MINIATURE SEALED SNAP-ACTING

Features:

- Epoxy potted in corrosion-resistant aluminum housing to seal precision switch contacts from contamination
- Watertight seal per enclosure design symbol 3
- Qualified to MIL-S-8805

Specifications:

- SE switches include an SM basic switch
- XE switches include the smaller SX basic switch
- Mfg. part nos. with "T" suffix have solder terminals
- Mfg. part nos. with out suffix have 1" wire leads



SE

XE

Mfg. Part No.	Amps	O.F. (oz)	Circuitry	Differential Travel (max.)	Stock No.	Price Each		
						1-9	10-24	100-249
1SE1	5	5-17	SPDT	0.004" (0.10)	23F1873	56.88	53.99	
1SE1-T	5	5-17	SPDT	0.004" (0.10)	23F1874	36.78	34.91	
1SE1-3	5	5-17	SPDT	0.004" (0.10)	23F1875	60.22	57.16	
1SE3	5	5-17	SPST-NO	0.004" (0.10)	23F1878	66.36	62.99	
1XE1	5	5-17	SPDT	0.004" (0.10)	23F1909	84.23	79.96	
1XE1-T	5	5-17	SPDT	0.004" (0.10)	23F1910	57.05	54.15	
5SE1*	5	5-17	SPDT	0.004" (0.10)	23F2025	70.97	67.37	

*Oil-resistant fluorosilicone (4920)

MICRO SWITCH™ AUXILIARY ACTUATORS FOR SE/XE STYLE SWITCHES



Honeywell

Sensing and Control



Straight Leaf

Roller Lever

Provide sealed switches (not included) with an easier means of operation and adjustment. Auxiliary actuators adapt switches to different operating motions by supplying supplemental overtravel. Mounting hardware included.

JE AUXILIARY ACTUATORS FOR SE SWITCHES

Mfg. Part No.	Description	Length	O.F.	O.T.	Stock No.	Price Each			
						1-24	25-49	50-99	100-249
● JE-1	Straight Leaf	0.66"	12 oz.	0.15	23F4747	6.77	6.47	6.19	5.43
● JE-5	Roller Leaf	0.56"	12 oz.	0.15	23F4223	12.58	12.01	11.49	10.10

➤ CONTINUED ➤

MICRO SWITCH™ AUXILIARY ACTUATORS FOR SE/XE STYLE SWITCHES (CONT.)

JM AUXILIARY ACTUATORS FOR XE SWITCHES

Mfg. Part No.	Description	Length	O.F.	O.T.	Stock No.	Price Each			
						1-24	25-49	50-99	100-249
● JM-1	Straight Leaf	0.45"	21 oz.	0.009	93F6651	12.24	11.69	11.19	9.83
● JM-5	Roller Leaf	0.38"	21 oz.	0.009	93F6652	16.42	15.58	14.78	13.99

(33784)

MICRO SWITCH™ BASIC SWITCHES V3 SERIES SNAP-ACTION



Sensing and Control

- SPDT
- Overtravel: .040" min.

Switches feature high electrical capacity, long life, beryllium copper springs, and silver contacts. Size and shape meet design requirements for all types of applications. Wear-resistant phenolic case and plunger. Mounting hole diameter is 0.114", except mfg. part no. V3-19M, which is 0.122". UL recognized, CSA certified.

PIN PLUNGER

Mfg. Part No.	Fig.	Amps	Max. Operating Temperature (°F)	O.F. (Ounces)	Stock No.	Price Each
						1-24
● V3-15	3	15	300	6-14	23F1751	5.54
● V3-19	2	15	185	6-14	23F1752	6.48
● V3-19M	2	15	185	6-14	94B7347	8.18
● V3-129	1	11	300	8 Max.	23F1764	31.04
V3-1001	1	10	185	6-14	23F1769	13.93
● V3-245	1	10	400	10-25	23F1765	76.92

(4872)

MICRO SWITCH™ V-BASIC PREMIUM SWITCHES V7 SERIES SNAP-ACTION



Sensing and Control

Features:

- Reliability and accuracy
- World wide package acceptance
- 100K operations at full load
- Applications: Appliances, medical/dental equip, test instruments

Specifications:

- Circuitry: SPDT
- Operating temperature: -40°C to 85°C
- Physically interchangeable with V3 series miniature basic switches; on this page
- All existing V3 lever options available
- 0.114" (2.90) mounting holes
- D8 suffix denotes 0.187" x 0.020" quick-connect termination
- E9 suffix denotes 0.250" x 0.032" quick-connect termination
- Also available in high-temperature (to 350°F), high-current (to 25 amps), and VDE approved and CE compliant versions; go online or call

SPECIFICATIONS

A	B	C*	D
5A, 125, 250 or 277VAC; 1/10hp, 250VAC	11A and 1/3HP, 125, 250 or 277VAC; 1/2A, 125VDC; 1/4A, 250VDC; 4A, 125VAC "L"	15.1A and 1/2HP, 125, 250 or 277VAC; 1/2A, 125VDC; 1/4A, 250VDC; 5A, 120VAC "L"	1A, 125VAC
E	F	S	W
10A and 1/3HP, 125 or 250VAC; 1/2A, 125VDC; 1/4A, 250VDC; 4A, 125VAC "L"	3A, 125, 250 or 277VAC 1/10hp, 250VAC	0.1A, 125VAC	15.1A, 125, 250 or 277VAC

*Available only when specifying 150 gram operating force. L denotes lamp load.

PIN PLUNGER

Mfg. Part No.	Current	Circuitry	Operating Force	Stock No.	Price Each
					1-14
● V7-3S17E9	100mA	SPDT	1.76ozf	50F5121	2.88
● V71S17D8	100mA	SPDT	5.3ozf	39B2842	5.67
● V7-1D10D8	1A	SPDT	5.3ozf	86C1325	4.39
● V7-5F17D8-336	3A	SPDT	0.1ozf	90B2676	10.37
● V7-5F17D8	3A	SPDT	0.5ozf	86C1377	2.28
● V74A17D8	5A	SPDT	1.76ozf	39B2969	3.04
● V7-3E17E9	10A	SPDT	1.8ozf	50F5111	2.16
● V7-3E17D8	10A	SPDT	1.8ozf	50F5109	2.88
● V71B37D8	11A	SPST-NO	5.3ozf	39B2785	2.61
● V7-2B17D8	11A	SPDT	2.63ozf	50F5132	2.01
● V7-2B17E9	11A	SPDT	2.7ozf	86C1353	2.76
● V7-1B17D8	11A	SPDT	5.3ozf	39B2765	2.78
● V77B19E9	11A	SPDT	8ozf	39B3026	2.96
● V7-7B17D8	11A	SPDT	8ozf	86C1386	2.96

➤ CONTINUED ➤

SWITCHES – SNAP-ACTION

MICRO SWITCH™ V-BASIC PREMIUM SWITCHES V7 SERIES SNAP-ACTION (CONT.)

Mfg. Part No.	Current	Circuitry	Operating Force	Stock No.	Price Each 1-14
● V7-7B17D8-140	11A	SPDT	46ozf	86C1387	3.15
● V7-6B19D8	11A	SPDT	14ozf	39B2999	3.22
● V7-1C27E9	15A	SPST-NO	5.3ozf	86C1316	2.88
● V71C37D8	15A	SPST-NO	5.3ozf	96B0546	2.89
● V7-1C17E9	15A	SPDT	5.3ozf	50F5146	2.80
● V7-1C17D8	15A	SPDT	5.3ozf	50F5157	1.85
● V76C17D8	15A	SPDT	14ozf	39B3001	3.00
● V71V29E9	21A	SPST-NO	7.9ozf	39B2867	2.64
● V7-1V19E9	21A	SPDT	7.9ozf	50B5552	2.05
● V7-1Z29E9	25A	SPST-NO	7.9ozf	39B2885	3.15
● V7-1Z19E9	25A	SPDT	7.9ozf	39B2883	3.06

STRAIGHT LEVER

● V76C17D8057	15A	SPDT	3ozf	39B3002	3.21
● V7-1C17D8-002	15A	SPDT	5.6ozf	50F5158	3.45
● V7-6C18D8-002	15A	SPDT	14.6ozf	86C1383	2.18

EXTENDED STRAIGHT LEVER

● V7-3S17D8-022	100mA	SPDT	1.1ozf	50F5099	3.21
● V7-1S17D8022	1A	SPDT	3ozf	39B2843	3.49
● V7-3E17E9-022	10A	SPDT	1.1ozf	50F5094	2.58
● V7-6B19E9-022	11A	SPDT	215gf	73C7189	4.20
● V7-1B17D8-022	11A	SPDT	2.9ozf	91B8366	3.29
● V7-1B19D8-022	11A	SPDT	2.9ozf	39B2773	2.52
● V7-2B17D8-022	11A	SPDT	1.5ozf	50F5134	2.83
● V72B17D8162	11A	SPDT	0.35ozf	39B2900	3.85
● V7-2B17D8-165-1	11A	SPDT	9gf	71J8881	3.30

LONG STRAIGHT LEVER

● V7-3S17D8-048	100mA	SPDT	0.6ozf	50F5100	2.41
● V7-1A17D8-048	5A	SPDT	1.6ozf	39B2744	2.76
● V7-1B17D8048	11A	SPDT	1.7ozf	39B2766	3.35
● V7-2B17D8-048	11A	SPDT	0.7ozf	50F5135	2.85
● V71B17D8048S	11A	SPDT	1.7ozf	39B2767	4.50
● V7-6B19D8-057	11A	SPDT	1.9ozf	86C1379	2.46
● V7-1C17D8-022	15A	SPDT	2.9ozf	50F5159	2.81
● V7-1C17D8-048	15A	SPDT	1.6ozf	50F5160	2.59
● V7-9W1AE9048	15A	SPDT	3.2ozf	39B3038	4.90
● V71V19E9048	21A	SPDT	1.9ozf	39B2859	2.63

SIMULATED ROLLER LEVER

● V7-1S17D8-263	1A	SPDT	3.2ozf	39B2848	4.49
● V7-1B17D8263	11A	SPDT	3.1ozf	39B2770	3.20
● V77B19D8263	11A	SPDT	5ozf	39B3023	2.44
● V7-1C17D8-263	15A	SPDT	3.2ozf	50F5163	2.45
● V7-6C17D8263	15A	SPDT	1.6ozf	39B3004	3.21

ROLLER LEVER

● V7-2S17D8-201	100mA	SPDT	3.2ozf	50F5080	4.14
● V71S17D8201	100mA	SPDT	6ozf	39B2846	4.53
● V7-7B17D8201	11A	SPDT	1.6ozf	39B3019	1.75
● V7-2B17D8-201	11A	SPDT	3.1ozf	50F5136	3.05
● V7-1C17D8-201	15A	SPDT	6.2ozf	50F5161	3.75
● V7-1C13D8-201	15A	SPDT	6ozf	45H3039	3.46

LONG ROLLER LEVER

● V7-7D17D8207	1A	SPDT	1.6ozf	39B3030	6.43
● V71A17D8057	5A	SPST-NO	3ozf	39B2745	4.03
● V71A27D8207	5A	SPST-NO	3ozf	39B2752	3.32
● V7-2A17D8-207	5A	SPDT	1.5ozf	50F5070	3.86
● V7-1B17D8207	11A	SPDT	8ozf	39B2769	5.01
● V7-2B17D8-207	11A	SPDT	21.6ozf	50F5137	3.05
● V7-1C17D8-207	15A	SPDT	3.2ozf	50F5162	4.28

AUXILIARY ACTUATORS FOR V3 AND V7 STYLE SWITCHES

Mfg. Part No.	Description	Actuator Length (in.)	O.F. Max (oz.)	O.T. Min (in.)	Stock No.	Price Each 1-24
● JV-1	Short Straight Lever	0.84	12	0.031	23F4763	9.71
● V74A17D8	Pin Plunger	...	1.76	0.050	39B2969	3.04
● JV-7	Straight Lever	1.27	9	0.05	23F4764	26.64
● JV-26	Long Straight Lever	1.75	1.4	0.141	23F4767	15.58
● JV-5	Roller Leaf	0.81	12	0.031	23F5010	12.79
● JV-20	Roller Lever	0.75	3	0.062	23F4224	35.71
● JV-82	Roller Lever	0.81	28	0.89	23F4770	29.37

(4873)

MICRO SWITCH™ BASIC SWITCHES BZ/BA SERIES SNAP-ACTION

Features:

- Accepted as the worldwide standard
- Low operating force and differential travel
- 100K operations at full load
- Variety of terminator and actuator configurations
- Ideal for use appliances, irrigation, valve positioning and timing

Specifications:

- Meet ML-S-8805 standards
- Circuitry: SPDT
- Rated: 125, 250, and 480VAC
- Operating temperature: -55°C to 85°C

ROLLER LEAF

Mfg. Part No.	Amps	O.F. (Oz.)	O.P. (in.)	D.T. (in.)	Stock No.	Price Each 1-14 15-24
● BA-2RL2-A2	20	9	1.125 in	.002-.0075	23F5022	18.91 17.81
● BZ-2RL2-A2	15	5	0.75 in	.0004-.002	23F4097	12.93 11.75

LEVER

● BA-2RV-A2	20	2.5	1.125 in	.109	23F5027	14.77 14.00
● BA-2RV6-A2	20	1	0.75 in	.109	23F5029	17.43 16.43
● BA-2RV136-A2	20	8	0.75 in	.109	23F5032	22.75 21.43
● BZ-2RW80-A2	15	2.5	0.75 in	.007-.05	23F4026	10.83 9.84
● BZ-2RW863-A2	15	1	0.75 in	.018-.145	23F4034	9.66 8.23
● BZ-2RW824-A2	15	2.5	0.75 in	.007-.05	50B5477	18.81 17.72
● BZ-2RW80	15	2.5	0.75 in	.007-.05	73K2373	23.25 22.12
● BZ-2RW84-A2	15	1	0.75 in	.007-.05	23F4149	10.00 7.59
● BZ-2RW855-A2-S	15	2.5	0.75 in	.007-.05	23F4156	23.09 21.75
● BZ-2RW8244-A2	5	2.5	0.75 in	.007-.05	23F4161	14.22 12.13
● BZ-RW84-A2	15	1	0.75 in	.007-.05	23F4056	16.64 15.67
● BZ-RW8435-A2	10	0.25	0.75 in	.003-.015	23F4062	16.11 15.18
● BZ-2RW899-A2	15	2.5	Adjustable	.007-.05	23F4159	19.42 18.47
● BZ-2RW805551-A2	15	2.5	0.75 in	.007-.05	23F4203	19.11 18.17
● BA-2RL-A2	20	9	17.48 mm	...	23F5020	14.09 13.27
● BZ-2RW53-A2	15	...	1 in	...	23F4141	16.01 15.08
● BZ2RL5551A2	15	7	0.688 in	...	38B4130	19.25 18.14
● BZ2RW8435A2	10	0.5	0.75 in	...	38B4289	17.41 16.40
● BZ2RW84118A41	15	1	0.715 in	...	51B458	14.66 13.81
● BA2RV21A2	20	2.5	0.75 in	...	92B7931	21.02 19.80

ROLLER LEVER

● BE-2RV22-A4	25	6	1.172 in	.045	23F5053	21.36 20.12
● BM-1RW82-A2	22	3.5	1.188 in	.001-.013	23F5055	20.96 19.75
● BA-2RV2-A2	20	3.5	1.188 in	.085	23F4004	18.98 17.99
● BA-2RV22-A2	20	6	1.172 in	.045	23F4005	13.89 10.53
● BZ-2RW82-A2	15	3.5	1.188 in	.004-.04	23F4136	12.08 10.98
● BZ-2RW822-A2	15	6	1.188 in	.003-.02	23F4029	13.13 12.45
● BZ-2RW825	15	8	1.14 in	.015	73K2376	21.31 20.08
● BZ-2RW825-A2	15	8	1.14 in	.015	23F4032	24.38 22.96
● BZ-2RW822	15	6	1.188 in	.003-.02	04M8399	17.28 16.43
● BZ-2RW822T	15	6	1.188 in	.003-.02	04M8400	16.52 15.56
● BZ-2RW8225-A2-S	15	6	1.188 in	.003-.02	23F4160	23.33 21.98
● BZ-2RW8225551-A2	15	6	1.188 in	.003-.02	23F4209	11.66 10.98
● BZ-2RW82T	15	3.5	1.188 in	.004-.04	04M8398	16.46 15.50
● BZ-2RW822-P4	15	6	1.188 in	.003-.02	23F4151	9.95 ...
● BZ-2RW82276T	15	6	1.188 in	.02	04M8402	13.08 11.15
● BZ-RW922-A2	10	12	1.235 in	.0005-.001	23F4060	56.56 53.62
● BA-2RV22T	20	6	29.77 mm	...	23F5031	21.70 20.44
● BA2RV22D81	20	6	1.172 in	...	19C8933	22.80 21.48
● BZ-2RW82113T	15	3.5	30.17 mm	...	23F4167	22.98 21.65
● BZ-3YWT82	5	4.5	30.18 mm	...	23F4286	37.97 35.77
● BZ-3RW8221555513T	10	6.5	1.188 in	...	30C9529	26.75 25.20
● BE-2RV2-A4	25	3.5	1.188 in	...	92B4471	20.54 19.35

ROLLER PLUNGER

● BZ-2RQ18-A2	15	9-13	1.312 in	.0004-.002	23F4014	33.38 31.45
● BZ-2RQ181-A2	15	9-13	1.312 in	.0004-.002	23F4019	22.55 21.36

SIMULATED ROLLER LEVER

● BZ-2RW80147-A2	15	6	1.888 in	.003-.02	23F4166	16.09 15.16
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PANEL MOUNT PLUNGER

● BZ-2RQ784	15	9.5	1.953 in	.0004-.002	04M8395	40.35 38.38
● BZ-RQ66	15	9.5	1.5 in	.0002-.0005	04M8378	29.39 27.69
● BZ-RQ1-A2	15	9.5	0.859 in	.0002-.0005	23F4037	22.93 21.61
● BZ-2RQ1-A2	15	13	0.859 in	.0004-.002	23F4013	11.66 10.98
● BZ-2RQ66	15	13	1.5 in	.0004-.002	04M8391	18.91 16.13
● BZ-2RN702	15	13	1.906 in	.0004-.002	04M8386	26.99 25.59
● BZ-2RQ68	15	13	1.5 in	.0004-.002	04M8392	27.65 20.97
● BZ-2RQ69	15	13	1.703 in	.0004-.002	04M8393	44.24 42.08

➔ CONTINUED ➔



Just Added



Honeywell

Sensing and Control



Mfg. Part No. Suffix Descriptions:

- A2 = Bottom-Facing Screw Terminals (6-32 Screws)
- P4 = Side-Facing Screw Terminals
- No Suffix = Solder Terminals

SWITCHES – SNAP-ACTION

MICRO SWITCH™ BASIC SWITCHES BZ/BA SERIES SNAP-ACTION (CONT.)

PANEL MOUNT PLUNGER

Mfg. Part No.	Amps	O.F. (Oz.)	O.P. (In.)	D.T. (In.)	Stock No.	Price Each	
						1-14	15-24
● BZ-2RQ1T	15	13	0.859 in	.0004-.002	04M8389	20.91	15.85
● BZ-2RQ1	15	13	0.859 in	.0004-.002	04M8388	23.62	22.46
● BZ-2RN770	15	13	1.906 in	.0004-.002	04M8387	34.39	32.40
● BZ-2RQ77	15	24	1.719 in	.0004-.002	04M8394	32.97	31.36
● BA-2RQ1-A2	20	22	0.859 in	.002-.0075	23F5024	18.81	17.72
● BE2RQ1A2	25	22	0.859 in	...	38B3766	21.66	20.41

PIN PLUNGER

● 2HT1	3	22	0.66 in	.01	23F1955	617.40	581.64
● BZ-R88-A2	10	9	0.625 in	.0007	23F4007	13.60	12.89
● BZ-3AT	15	26	0.625 in	.002-.005	04M8403	21.60	20.35
● BZ-RX	15	9	0.625 in	...	04M8380	15.42	14.01
● BZ-2R-P4	15	13	0.625 in	.0004-.002	23F4072	12.33	11.62
● BZ-2R-A2	15	13	0.625 in	.0004-.002	23F4009	10.33	9.73
● BZ-2R-P1	15	13	0.625 in	.0004-.002	23F4071	19.84	18.69
● BZ-2RD331	15	13	0.835 in	.0004-.002	04M8384	16.14	15.21
● BZ-2R55-A2-S	15	15	0.625 in	.0004-.0025	23F4073	20.64	19.44
● BE-2R-A4	25	22	16.26 mm	...	23F5047	11.10	10.45
● BE-2RB-A2	25	22	26.16 mm	...	23F5048	14.87	14.01
● BA-2RVT	20	2.5	19 mm	...	23F5033	15.61	14.71
● BA-2RB-P4	20	22	26.16 mm	...	23F5018	14.85	13.99
● BA-2R-A2	20	22	0.64 in	.002-.0075	23F5013	11.80	10.73
● BA-2R708-P7	20	22	0.64 in	.002-.0075	23F5015	34.02	25.80
● BA-3ST	25	38	0.64 in	.007-.015	04M8337	24.01	22.77
● BZ-R31	15	28	15.88 mm	...	23F4020	11.08	10.44
● BZ-2RT	15	13	15.88 mm	...	23F4132	13.57	12.78
● BZ-2RT04	15	13	15.88 mm	...	23F4133	12.93	12.18
● BZ-7RT04	15	28	15.88 mm	...	23F4288	14.27	13.44
● BA2RA4	20	22	0.64 in	...	38B3720	13.07	12.31
● BZ2R244A2	5	13	0.625 in	...	38B4330	14.31	13.48

OVERTRAVEL PLUNGER

● BZ-2RQ-A2	15	13	1.5 in	.0004-.002	23F4107	22.10	20.95
● BZ-2RS-A2	15	13	1.11 in	.0004-.002	23F4212	17.92	17.05
● BZ-2RD-A2	15	13	0.835 in	.0004-.002	23F4010	11.11	10.29
● BZ-2RDT	15	13	0.835 in	.0004-.002	04M8383	15.12	14.25
● BZ-2RS	15	13	1.11 in	.0004-.002	04M8396	18.36	17.30
● BA-2RB-A2	20	22	1.03 in	.002-.008	23F4003	9.69	8.93

ONE WAY ROLLER LEVER

● BZ-2RW826-A2	15	6	1.625 in	.003-.02	23F4215	20.25	19.26
● BZ-RW84414-A2	15	10	19 mm	...	91B0057	14.69	13.84

PLUNGER

● BZ-2RDS-A2-S	15	19	0.625 in	.0004-.002	23F4090	25.64	19.44
● BZ-3A55T	15	28	0.625 in	...	40C1991	31.55	29.73
● BZ-2RN-A2	15	13	1.719 in	...	23F4104	21.19	18.07
● BZ-3YST	5	26	1.11 in	...	23F4282	39.09	36.83

LEAF LEVER

● BZ-RW8435	10	0.25	0.75 in	.003-.015	04M8379	17.33	16.33
● BZ-2RL-A2	15	5	0.688 in	.05	23F4284	13.50	12.27
● BZ-2RL	15	5	0.688 in	.05	23F4094	15.49	14.60
● BA-2RV	20	2.5	0.75 in	.109	04M8335	16.02	15.10
● BZ-RQX167	15	6.5	43.66 mm	...	23F4041	51.81	48.81
● BZF1-2RN-RH	15	2	52.78 mm	...	23F4308	105.54	101.68
● BZ-2AQ18T1	15	24	33.35 mm	...	23F4065	58.15	54.78
● BZ-2RL-P4	15	5	17.48 mm	...	23F4095	16.55	15.59
● BZ-2RQ181	15	13	33.32 mm	...	23F4120	35.74	33.67
● BZLN-LH3	15	5	41.66 mm	...	23F4174	259.13	244.13
● BZLN-LH5	15	5	41.66 mm	...	23F4175	300.70	283.29
● BZV6-2RN4	15	20	...	...	23F4196	133.26	125.54
● BZ-3RD-A2	15	20	21.2 mm	...	23F4272	13.30	12.53
● BZ-R2411-A4	15	9	15.88 mm	...	27C0146	14.92	14.05
● BZ-R	15	9	15.88 mm	...	73K2363	10.49	9.89

WOBBLE COIL SPRING LEVER

● BFL1-AW1	5	7	15 degrees	...	91F5333	49.27	46.41
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O.F. = Operating Force; D.T. = Differential Travel; O.P. = Operating Position
(15026)

MICRO SWITCH™ V-BASIC STANDARD V15 SERIES SNAP-ACTION

Just Added

Honeywell

Sensing and Control



Pin Plunger

Features:

- Most suitable for low cost of failure applications
- Matches product performance to customer design expectations
- Unique push-in terminal option
- Rating: 16A and 22A
- Accurate repeatability and long life at great value
- Ideal for use with: HVAC, office business machines, vending machines

Specifications:

- Insulation resistance: less than 100mΩ
- Dielectric strength: 1000VAC (50/60Hz)
- Operating frequency: 30ops per minute
- Electrical rating: 16A at 250VAC; 22A at 250VAC

PIN PLUNGER

Mfg. Part No.	Current (A)	Circuitry	Operating Force	Price Each	
				Stock No.	1-9
V15T16-CC100-K	16	SPST-NC	100gf	01N5054	1.29
V15T16-CC300-K	16	SPST-NC	300gf	01N5057	1.29
V15H16-CZ100-K	16	SPDT	100gf	01N5044	2.22
V15T16-CZ100-K	16	SPDT	100gf	01N5060	1.70
V15T16-CZ300-K	16	SPDT	300gf	01N5065	1.79
V15H22-CZ100-K	22	SPDT	100gf	01N5049	1.99
V15T26-CZ300-K	26	SPDT	300gf	01N5070	2.51

SHORT STRAIGHT LEVER

V15T16-CC100A01-K	16	SPST-NC	100gf	01N5055	1.30
V15T16-CC300A01-K	16	SPST-NC	300gf	01N5058	1.30

STRAIGHT LEVER

V15H16-CZ100A02-K	16	SPDT	100gf	01N5045	2.25
V15T16-CZ100A02-K	16	SPDT	100gf	01N5061	1.73
V15T16-CZ300A02-K	16	SPDT	300gf	01N5066	1.73
V15H22-CZ100A02-K	22	SPDT	100gf	01N5050	2.01

LONG STRAIGHT LEVER

V15H16-CZ100A03-K	16	SPDT	100gf	01N5046	2.33
V15T16-CZ100A03-K	16	SPDT	100gf	01N5062	1.75
V15T16-CZ300A03-K	16	SPDT	300gf	01N5067	1.75
V15H22-CZ100A03-K	22	SPDT	100gf	01N5051	2.66

ROLLER LEVER

V15T16-CC100A05-K	16	SPST-NC	100gf	01N5056	1.36
V15T16-CC300A05-K	16	SPST-NC	300gf	01N5059	1.36
V15H16-CZ100A05-K	16	SPDT	100gf	01N5047	2.29
V15T16-CZ100A05-K	16	SPDT	100gf	01N5063	1.78
V15T16-CZ300A05-K	16	SPDT	300gf	01N5068	1.78
V15H22-CZ100A05-K	22	SPDT	100gf	01N5052	2.05

LONG ROLLER LEVER

V15H16-CZ100A06-K	16	SPDT	100gf	01N5048	2.31
V15T16-CZ100A06-K	16	SPDT	100gf	01N5064	1.79
V15T16-CZ300A06-K	16	SPDT	300gf	01N5069	1.79
V15H22-CZ100A06-K	22	SPDT	100gf	01N5053	2.06

(114885)

MICRO SWITCH™ BASIC SWITCHES DPDT SNAP-ACTION



Honeywell

Sensing and Control



- Specifications:**
- Circuitry: 2 SPDT
 - Operating temperature: -55°C to +82°C
 - Mounting inc

BOTTOM FACING SCREW TERMINALS

Features:

- Two independent single-pole double-throw circuits in one housing
- Provides mounting interchangeability with Z series switches
- Accepted as the worldwide standard
- Low operating force and differential travel
- 100K operations at full load
- Variety of terminator and actuator configurations
- Ideal for use appliances, irrigation, valve positioning and timing

Mfg. Part No.	Amps	Lever Type	Stock No.	Price Each	
				1-14	15-24
DT-2R-A7	10	Pin Plunger	23F4046	64.71	61.35
● DT-2RV212-A7	10	1.19" Roller, Rev. Pos.	73K2383	115.73	110.06
● DT-2RV3-A7	10	2.5" Straight, Rev. Pos.	23F4049	92.65	87.83
● DT-2RV22-A7	10	1.03" Steel Roller	73K2384	79.19	67.52
● DT-2RV23-A7	10	1.9" Roller, Rev. Pos.	73K2385	90.45	83.21
● DT-2RV-A7	10	2.5" Straight	73K2381	154.75	147.18
● DT-2R4-B6	10	Pin Plunger	04M8782	111.88	102.93

(4914)

SWITCHES – SNAP-ACTION

MICRO SWITCH™ BASIC
SWITCHES MN SERIES

Honeywell
Sensing and Control

Features:

- Accepted as the worldwide standard
- Low operating force and differential travel
- 100K operations at full load
- Variety of terminator and actuator configurations
- Ideal for use appliances, irrigation, valve positioning and timing

Specifications:

- DPDT-DB (double-break)
- Rated 10A or 15A @ 480VAC
- Pin Plunger Actuator
- Motor Handling Capacity of 1HP @ 240VAC
- Mechanical Life to 10,000,000 Cycles
- Arc Resistant Plastic
- Screw Termination

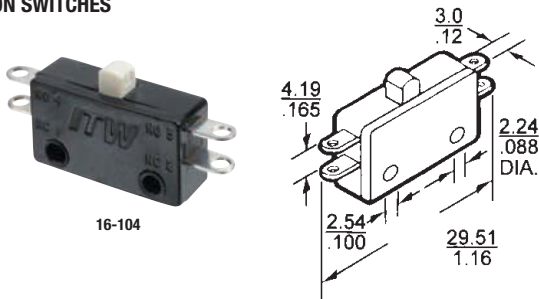


Mfg. Part No.	Current Rating (A)	Operating Force (oz.)	Pretravel (in.)	Differential Travel (in.)	Operating Position (in.)	Stock No.	Price Each
● 3MN1	15	20	0.060	0.025	0.085	23F4126	41.38
● 3MN6	15	11	0.060	0.025	0.085	23F2001	70.99

(80246)

LICON 16 SERIES
SUBMINIATURE SNAP
ACTION SWITCHES

ITW Switches
SENSORS, SWITCHES, ELECTRONIC CONTROLS



16-104

16-104

16-404 & 16-504

- Double-break, momentary mechanism
- Rating: 10.1A @ 125/250VAC
- Operating force: 5 oz. + 3 oz. – 2 oz.
- Release force: 2 oz. min.
- Overtravel: 0.012" min.
- All are SPDT (form Z) circuits
- Pretravel: 0.050 Max.
- UL recognized, CSA certified

Mfg. Part No.	Terminals	Stock No.	Price Each
● 16-104	End Solder	23F179	25.40
● 16-304	Side Solder	23F182	19.92
● 16-404	Bottom Solder	23F183	15.56
● 16-4044*	Bottom Solder	95F7256	13.60
● 16-504	Bottom Q.C. Taper Tab	23F187	19.33
● 16410	Bottom Solder, Enhanced Gold Contacts	98B5827	21.26
● 16411	Bottom Solder, Silver Contacts	98B5828	15.51

* Thermoplastic case and cover
(5131)

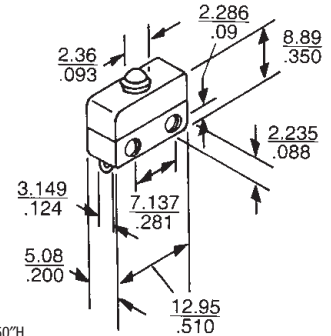
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(148843)

LICON 18 SERIES
SUBMINIATURE SNAP-
ACTION SWITCHES

ITW Switches
SENSORS, SWITCHES, ELECTRONIC CONTROLS



- SPDT, double-break
- Gold-plated contacts
- Terminals: Solder lug
- Rating: 7A at 125/250VAC 75-80% PF
- Operating force: 5 ± 3 oz.
- Release force: 1½ oz. min. 0.510L × 0.124W × 0.350"H
- UL recognized. Mfg. part no. 18488051 is MIL-S-8805QPL listed as MIL-S-8805/76.

18 SERIES SWITCHES

Mfg. Part No.	Description	Stock No.	Price Each
● 18-40421	Solder	60F1952	29.13
● 18488051	Solder	98B5835	36.09

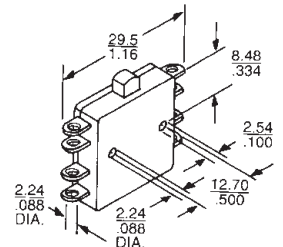
ACTUATORS FOR 18 SERIES SWITCH

Mfg. Part No.	Style	Overtravel	Stock No.	Price Each
● 78-3000	Spring Lever	0.030" min.	61F1856	10.74
● 78-3100	Pivot Roller	0.030" min.	61F2027	16.15

(5125)

26 SERIES SUBMINIATURE
SNAP-ACTING SWITCHES

ITW Switches
SENSORS, SWITCHES, ELECTRONIC CONTROLS



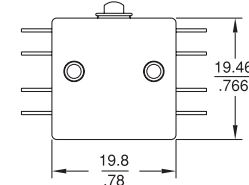
26 series allows control up to 4 isolated circuits. DPDT (Form ZZ), double-break. Functions simultaneously within 0.004" (0.102) of plunger travel. Ratings: 8A @ 125/250VAC 75-80% PF. Overtravel: 0.012min. Operating force: 12 ± 4 oz. Release force: 5 oz. min. Contacts: silver. UL recognized. Order actuators separately; go online or call.

Mfg. Part No.	Terminals	Stock No.	Price Each
● 26-804	End Solder	60F1961	48.76

(5128)

LICON 26 SERIES SUBMINIATURE
SNAP-ACTION SWITCH

ITW Switches
SENSORS, SWITCHES, ELECTRONIC CONTROLS



Features

- Sealed thermoplastic case, meets requirements of MIL-S-8805/77
- Enhanced gold contacts for high or low power applications
- Ambient temperature range: -65°C to +125°C

- Contact arrangement: DPDT-DB
- Operating force: 18±5 ounces
- Release force: 5 ounces min.
- Can be specified for aerospace applications
- UL recognized, CSA certified

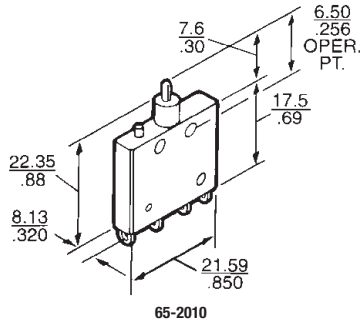
Mfg. Part No.	Terminals	Stock No.	Price Each
● 26-810	End Solder	95B9261	48.65

(47670)

SWITCHES – SNAP-ACTION

LICON 65 SERIES
SUBMINIATURE
SEALED SWITCHES
ITW Switches
SENSORS, SWITCHES, ELECTRONIC CONTROLS


65-2010



65-2010

- Meets MIL-S-8805 watertight requirements
- Circuit: SPDT-DB (Form Z)
- Ratings: 10A @ 125/250VAC; 5A ind. @ 28VDC
- Solder lug terminals
- Temperature range: -85°C to +85°C (-65°F to +65°F)
- Gold contacts.



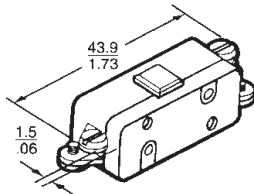
65-3010 & 65-4010

Mfg. Part No.	Actuator	Operating Force (oz.)	Release Force (oz.)	Overtravel	Stock No.	Price Each
						1-4
65-2010	Pin Plunger	24 ± 8	8 Min.	0.012" Min.	90F8376	69.70
65-3010	Roller Lever	16 Max.	5 Min.	0.025" Min.	25F2137	92.37
65-4010	Overtravel	36 Max.	8 Min.	0.187" Min.	25F2138	91.83

(5127)

LICON 11 SERIES
MINIATURE SWITCHES
ITW Switches
SENSORS, SWITCHES, ELECTRONIC CONTROLS


11-504



11-204



11-104, 11-204 & 11-304

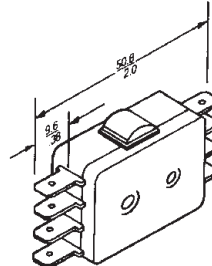
- SPDT-DB N.O. (Form X)
- Contacts: silver
- Electrical characteristics: 10A (75-80% PF), ½HP 125VAC, ¼HP 250VAC
- Pretravel 0.050" (1.27) max.
- Overtravel 0.015" (0.38) min.
- Operating force: 8 ± 3 oz. Release force: 4 oz min.
- UL recognized, CSA certified.
- Mfg. part no. 11-504 same as mfg. part no. 11-104, except overall length is 2.01" (51.1).
- Order actuators separately below.

Mfg. Part No.	Terminal	Stock No.	Price Each
			1-9
11-104	End solder	23F161	16.80
11-204	#4 Screw	23F162	18.80
11-304	Side Solder	23F163	16.51
11-504	Quick Disconnect 0.250" (6.35)	61F1830	16.39

ACTUATORS FOR 11 SERIES SWITCHES

Mfg. Part No.	Style	Operating Force (oz.)	Release Force (oz.)	Over-travel	Stock No.	Price Each
						1-9
71-1040	Roller Lever	3.5 max.	2	0.062"	23F168	13.75
71-2010	Overtravel	8 oz. ± 3	4	0.215"	23F169	24.98

(5133)

LICON 22 SERIES MINIATURE
SNAP-ACTING SWITCHES
ITW Switches
SENSORS, SWITCHES, ELECTRONIC CONTROLS


22-104 & 22-504



22-304



22-504, 22-104 & 22-204

- 2 switching elements function simultaneously (within 0.004" (0.102) of plunger travel)
- Circuit: DPDT (Form ZZ), double-break
- Ratings: 10A @ 125/250VAC, 75-80% PF ½HP @ 125VAC, ¾HP @ 250VAC
- Operating force: 17 ± 5 oz. Release force: 4 oz min.
- Overtravel: 0.015 min. 1.61L × 0.50W × 0.890"H. UL recognized.
- Order actuator separately below.

Mfg. Part No.	Terminals	Stock No.	Price Each
			1-4
22-104	End Solder	61F1979	49.45
22-204	#4 Screw	90F8377	56.32
22-304	Side Solder	23F185	61.38
22-504	¼" Quick Disconnect	61F1802	46.19

ACTUATOR FOR 22 SERIES SWITCHES

Mfg. Part No.	Style	Operating Force (oz.)	Release Force (oz.)	Over-travel	Stock No.	Price Each
						1-9
72-1160	Roller	10 Max.	1.5 Min.	0.035" Min.	61F1875	11.09

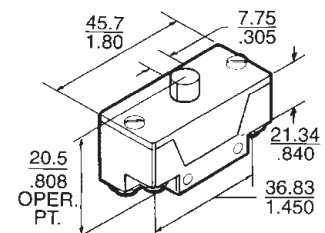
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LICON 14 SERIES
SNAP-ACTION
SWITCHES
ITW Switches
SENSORS, SWITCHES, ELECTRONIC CONTROLS

7



14-124



14-124



14-324 & 14-724

Features Butterfly® double-break mechanism. Standard mounting. Terminal: #6 screw with cup washer. Circuitry: SPDT-DB (Form Z). Ratings: 20A @ 125/250/480VAC 75-80% PF; UL recognized, CSA certified. Mfg. part no. 14-324 is overtravel panel mount.

Mfg. Part No.	Actuator Style	Operating Force (oz.)	Release Force (oz.)	Over-travel Min.	Stock No.	Price Each
						1-9
14-124	Standard Button	12 ± 3	4 Min.	0.030"	61F1953	39.75
14-324	Panel Mount	12 ± 3	4 Min.	0.219"	61F2041	56.69
14-724	Roller Level	5 ± 2	2 Min.	0.060"	61F1900	49.76

(5132)

SWITCHES – SNAP-ACTION

F1 SERIES
ULTRAMINIATURE
SNAP-ACTION
BASIC SWITCHES

Just Added

**JOHNSON**
ELECTRIC
burgess**Specifications:**

- Contact rating: 5A at 250VAC
- Dimensions (mm): 16 x 6.5 x 5.7
- Housing: Glass fiber reinforced nylon
- Mechanism: Snap-action, stainless steel coil spring
- Circuitry: Single pole change-over
- Temperature range: -40°C to +85°C
- Protection IP40 (enclosure)

Features:

- Long electrical rating from a very small switch
- Gold plated contacts
- PCB mounting from side

Mfg. Part No.	Current (A)	Operating Force (oz)	Actuator Style	Termination	Stock No.	Price Each
						1-9
F1T8-GP-UL	5	5.04	Plunger	PCB/Push-on	50M7195	11.77

(142165)

F4 SERIES
ULTRAMINIATURE
SNAP-ACTION
BASIC SWITCHES

Just Added

**JOHNSON**
ELECTRIC
burgess**Specifications:**

- Contact rating: 5A at 250VAC
- Dimensions (mm): 12.8 x 10 x 5
- Housing: Glass fiber reinforced nylon
- Mechanism: Snap-action, single pole
- Circuitry: Change-over, NO, NC
- Temperature range: -40°C to +85°C
- Protection IP40 (enclosure)

Features:

- High electrical rating from a very small switch
- Long mechanical and electrical life
- Gold-plated contact option
- Side mounting

Mfg. Part No.	Current (A)	Operating Force (oz)	Actuator Style	Termination	Stock No.	Price Each
						1-9
F4T7-UL	5	5	Plunger	Solder Lug	14N3995	6.62
F4T7-GP-UL*	5	5	Plunger	Solder Lug	16P3372	10.06

* Gold-plated contacts
(142161)**V4N SERIES**
SUBMINIATURE
SNAP-ACTION
BASIC SWITCHES

Just Added

**JOHNSON**
ELECTRIC
saia**Specifications:**

- Dimensions (mm): V4N: 20x10x6; V4NS: 20x17.5x6.4
- Housing: Flame-retardant glass-fibre reinforced nylon
- Mechanism: Snap-action stainless steel coil spring
- Circuitry: Change-over, NC or NO
- Temperature range: -40°C to +85°C
- Protection IP40

Features:

- Side mounting - Peg mounting option
- 2.8 mm faston (quick connect) terminals
- Pre-wired option
- Snap-on terminal covers

Mfg. Part No.	Current (A)	Operating Force (oz)	Actuator Style	Termination	Stock No.	Price Each
						1-24
V4NT7-UL	5	5	Plunger	Solder Lug	46M2990	5.65
V4NT9-UL	5	5	Plunger	Through Hole	51P3633	4.09
V4NST7-UL	5	9	Plunger	Solder Lug	48M4426	5.93
V4NS-UL	5	9	Plunger	Wire Leads	51P3632	6.25

(142164)

XC SERIES
SUBMINIATURE
SNAP-ACTION
BASIC SWITCHES

Just Added

**JOHNSON**
ELECTRIC
saia**Specifications:**

- Contact rating: 10A at 250V
- Dimensions (mm): 19.9 x 9.5 x 6.4
- Housing: Phenolic-Melamine, Thermosetting
- Circuitry: Change-over, NO, NC
- Temperature range: -40°C to +85°C
- Mechanical life: 5-107 cycles
- Protection enclosure IP40
- Actuator material: Stainless steel

Features:

- Wide range of actuating forces
- Long mechanical and electrical life
- Solder, PCB, faston (quick connect) terminals

Mfg. Part No.	Current (A)	Operating Force (oz)	Actuator Style	Termination	Stock No.	Price Each
						1-9
XCG3-J1-Z1	5	2.14	Lever	Solder Lug	08P3895	4.86
XCG3-S1-Z1	5	2.49	Roller Lever	Solder Lug	12P9466	6.97

(142163)

BVM3F SERIES
MINIATURE
SNAP-ACTION
BASIC SWITCHES

Just Added

**JOHNSON**
ELECTRIC
burgess**Features:**

- Positive action momentary switch
- Forced break contacts
- Internationally recognized V3 housing
- Faston terminals

Specifications:

- Contact rating: 10A at 250VAC
- Dimensions (mm): 28 x 16 x 10.5
- 3mm contact gap at full travel

Mfg. Part No.	Current (A)	Operating Force (oz)	Actuator Style	Termination	Stock No.	Price Each
						1-9
BVM3F-ULS	10	16.2	Plunger	Quick Connect	51P3595	5.07
BVM3FYR-ULS	10	18	Roller Lever	Quick Connect	51P3596	5.79

(142167)

XG SERIES
MINIATURE
SNAP-ACTION
BASIC SWITCHES

Just Added

**JOHNSON**
ELECTRIC
saia**Specifications:**

- Contact rating: 26A at 250VAC
- Dimensions (mm): 27.8 x 15.9 x 10.3
- Housing material: Phenolic-melamine
- Circuitry: Change-over, NO
- Temperature range: -40°C to +150°C
- Protection enclosure IP40
- Actuator: Stainless steel

Features:

- Wide number of force variants
- High mechanical and electrical life
- Wide range of levers
- Side mounting via mounting holes

Mfg. Part No.	Current (A)	Operating Force (oz)	Actuator Style	Termination	Stock No.	Price Each
						1-24
XGG6-88-P27-Z1	15	2.338	Lever	Quick Connect	51P3636	2.89
XGG2-88-Z1	15	11.43	Plunger	Quick Connect	51P3635	2.39
XGG3-88-Z1	15	11.43	Plunger	Solder Lug	96M0774	5.81

(142160)

New products added weekly

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(148886)

SWITCHES – SNAP-ACTION

PN4 SERIES STANDARD
PLASTIC SNAP-ACTION
BASIC SWITCHES

Just Added

JOHNSON
ELECTRIC

burgess



Features:

- Precision switching
- Wide selection of actuators
- Panel or side mounted variants
- Screw terminals, able to accept heavy duty wiring
- Stepped base for maximum creepage distance

Specifications:

- Contact rating: 15A at 250VAC
- Dimensions (mm): 49 x 25 x 18
- Housing: Crastin
- Circuitry: Single pole, change-over
- Temperature range: -10°C to +85°C
- Protection IP 40 (enclosure)

Mfg. Part No.	Current (A)	Operating Force (oz)	Actuator Style	Termination	Stock No.	Price Each
PN4-1	15	13.7	Overtravel Plunger	Screw	51P3621	30.49

(142157)

V3S SERIES MINIATURE
SEALED SNAP-ACTION
BASIC SWITCHES

Just Added

JOHNSON
ELECTRIC

burgess



Specifications:

- Contact rating: 5A at 250VAC
- Dimensions (mm): 31.7 x 24.2 x 10.5
- Housing: Glass fiber reinforced nylon
- Circuitry: Change-over
- Temperature range: -40°C to +85°C

Features:

- IEC IP67 sealed mechanism
- Industry standard miniature switch mounting hole positions
- Pre-wired - horizontal leads
- Side mounting

Mfg. Part No.	Current (A)	Operating Force (oz)	Actuator Style	Termination	Stock No.	Price Each
V3S-UL	5	14	Plunger	Wire Leads	51P3623	19.94
V3SY1-UL	5	7.5	Lever	Wire Leads	51P3624	21.24

(142158)

V3NS SERIES
SNAP-ACTION
BASIC SWITCHES

Just Added

JOHNSON
ELECTRIC

burgess



Specifications:

- Contact rating: 8A at 250VAC
- Dimensions (mm): 33 x 10.4 x 15.9
- Sealed to IP67 standards
- Termination: Pre-wired

Applications:

- Material handling
- Building automation and security
- Transportation and distribution

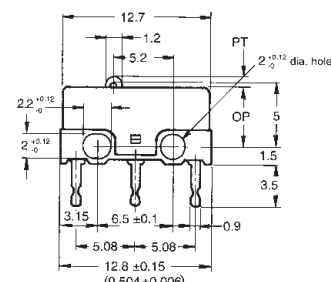
Mfg. Part No.	Current (A)	Operating Force (oz)	Actuator Style	Termination	Stock No.	Price Each
V3NS-UL	6	8	Plunger	Wire Leads	56P3011	5.72

(142159)

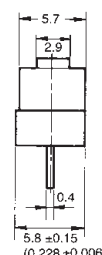
SUBMINIATURE SNAP-ACTION SWITCHES

OMRON.
ELECTRONIC COMPONENTS

Hinge Lever



Pin Plunger



Simulated Roller Lever



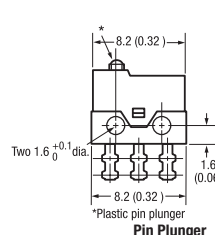
Roller Lever

D2F series are subminiature, snap-action switches. SPDT contacts. Suitable for a wide range of applications such as household appliances, office equipment, and audio equipment. High-precision, dual-spring, reverse-action mechanism supports long life. Models shown have PC board terminals. Also available with self-supporting terminals (add suffix "-T" to end of mfg. part no.), soldered terminals (suffix "-D"), right-angle (suffix "-A"), and left-angle (suffix "-A1"); go online or call Newark.

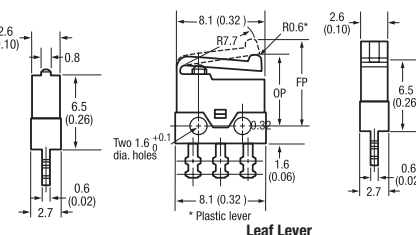
Mfg. Part No.	Current (A)	Operating Force (g)	Actuator	Stock No.	Price Each
D2F-01F	0.1	75	Pin Plunger	35K3177	1.10 1.00 0.96
D2F-01	0.1	150	Pin Plunger	36K7259	1.27 1.13 1.01
D2F	3	150	Pin Plunger	36K7257	1.07 0.98 0.93
D2F-01FL	0.1	25	Hinge Lever	36K7260	1.12 1.04 1.00
D2F-01L	0.1	80	Hinge Lever	36K7261	1.22 1.12 1.06
D2F-01L-A*	0.1	80	Hinge Lever	95B5371	1.49 1.38 1.31
D2F-FL	1		Hinge Lever	34K3566	1.40 1.28 1.23
D2F-L	3	80	Hinge Lever	36K7258	1.10 1.00 0.96
D2F-01L3	0.1	80	Hinge Lever	36K7262	1.55 1.40 1.24
D2F-L3	3	80	Simulated Roller Lever	31C2288	1.75 1.61 1.53
D2F-L2	3	80	Roller Lever	31C2287	2.59 2.34 2.08

*Right-angle (4974)

SUBMINIATURE BASIC SWITCHES

OMRON.
ELECTRONIC COMPONENTS

Pin Plunger



Leaf Lever

- Weight: 0.3g
- SPDT silver contacts

Mfg. Part No.	Current Rating (A)	Operating Force (g)	Description	Stock No.	Price Each
D2MQ-1L	0.5	60	Leaf Plunger	92B1082	3.12 2.81 2.50 2.25
D2MQ-1	0.5	120	Pin Plunger	90B5323	3.02 2.73 2.42 2.18

(75285)

7

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(148881)

SWITCHES – SNAP-ACTION

SUBMINIATURE SNAP-ACTION SWITCHES


OMRON
ELECTRONIC COMPONENTS


Pin Plunger

Pin Plunger

Hinge Lever

Simulated Roller Lever

Hinge Roller Lever

Set easily, no overtravel restrictions. Mechanical service life: 30 mil ops min. Electrical service life: 200k ops min. (50k for SS-10 series). SPDT models are shown. SPST-NO and SPST-NC contact forms also available; go online or call. UL recognized, CSA certified.

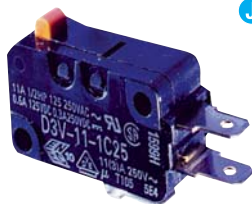
Mfg. Part No.	Current	Circuitry	Actuator	Termination	Stock No.	Price Each
						1-49
● SS-01	100mA	SPDT	Pin Plunger	Solder Lug	35K4902	2.12
● SS-01-FT	100mA	SPDT	Pin Plunger	Quick Connect	52F3625	2.28
● SS-01GL	100mA	SPDT	Hinge Lever	Solder Lug	52F3626	2.21
● SS-01GL2D	100mA	SPDT	Hinge Roller Lever	Through Hole	35K4903	3.04
● SS-01GL13	100mA	SPDT	Simulated Roller Lever	Solder Lug	52F3627	3.46
● SS-5	5A	SPDT	Pin Plunger	Solder Lug	36K7635	1.01
● SS-5D	5A	SPDT	Pin Plunger	Through Hole	36K7636	1.68
● SS-5-F	5A	SPDT	Pin Plunger	Solder Lug	95B0523	1.53
● SS-5-FT	5A	SPDT	Pin Plunger	Quick Connect	35K3226	1.40
● SS-5GL-F	5A	SPDT	Hinge Lever	Solder Lug	89C8030	1.77
● SS-5GL	5A	SPDT	Hinge Lever	Solder Lug	35K4907	1.14
● SS-5GLD	5A	SPDT	Hinge Lever	Through Hole	43K7680	1.63
● SS-5GLT	5A	SPDT	Hinge Lever	Tab	36K7637	1.56
● SS-5GL13	5A	SPDT	Simulated Roller Lever	Solder Lug	36K3563	1.36
● SS-5GL13D	5A	SPDT	Simulated Roller Lever	Through Hole	35K0928	1.74
● SS-5GL13-F	5A	SPDT	Simulated Roller Lever	Solder Lug	89C8055	1.30
● SS-5GL13T	5A	SPDT	Simulated Roller Lever	Quick Connect	35K3227	1.50
● SS-5T	5A	SPDT	Pin Plunger	Quick Connect	52F3639	2.32
● SS-5GL2	5A	SPDT	Hinge Roller Lever	Solder Lug	36K7638	1.44
● SS-5GLD2	5A	SPDT	Hinge Roller Lever	Through Hole	89C8036	2.08
● SS-5GL2-F	5A	SPDT	Hinge Roller Lever	Solder Lug	89C8071	2.22
● SS-5GL2-FT	5A	SPDT	Hinge Roller Lever	Quick Connect	85C1346	2.25
● SS-5GL2T	5A	SPDT	Hinge Roller Lever	Quick Connect	33K3886	2.72
● SS-10	10A	SPDT	Pin Plunger	Solder Lug	36K7634	1.81
● SS-10T	10A	SPDT	Pin Plunger	Quick Connect	89C8020	2.74
● SS-10D	10A	SPDT	Pin Plunger	Through Hole	35K4904	3.22
● SS-10GL	10A	SPDT	Hinge Lever	Solder Lug	35K4905	1.80
● SS-10GL13T	10A	SPDT	Simulated Roller Lever	Quick Connect	89C8016	2.51
● SS-10GL2T	10A	SPDT	Hinge Roller Lever	Quick Connect	89C8019	2.80

* PCB Parallel to the Right (4979)

MINIATURE SNAP-ACTION SWITCHES


OMRON
ELECTRONIC COMPONENTS

Just Added



Pin Plunger



Fig. 1

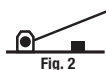


Fig. 2



Fig. 3



Fig. 4

Ideal switches for home appliances, vending machines and office automation. Internal/external actuator with two operating position options. Environment-friendly, free of beryllium copper. Self-cleaning contacts. Operating temperature: 105°C. Resistant load: 11A or 16A @ 125/250VAC. SPDT. UL recognized, CSA certified, VDE approved.

11A MODELS

Mfg. Part No.	Fig.	Circuitry	Actuator	Stock No.	Price Each	
					1-49	50-99
● D3V-11G-1C25-K	1	SPDT	Pin Plunger	67K9324	3.06	2.97
● D3V-11G2-1C25-K	2	SPDT	Internal Hinge Lever	25C4083	2.17	1.98
● D3V-11G2M-1C25-K	2	SPDT	External Hinge Lever	67K9325	2.13	1.96
● D3V-11G4-1C25-K	3	SPDT	Internal Sim. Roller Lever	25C4085	2.24	2.04
● D3V-11G4M-1C25-K	3	SPDT	External Sim. Roller Lever	67K9326	2.13	1.95
● D3V-11G6-1C25-K	4	SPDT	Internal Hinge Roller Lever	25C4087	3.29	3.01
● D3V-11G6M-1C25-K	4	SPDT	External Hinge Roller Lever	25C4088	3.15	2.90

➤ CONTINUED ➤

MINIATURE SNAP-ACTION SWITCHES (CONT.)

16A MODELS

Mfg. Part No.	Fig.	Circuitry	Actuator	Stock No.	Price Each	
● D3V-16G-1C25-K	1	SPDT	Pin Plunger	25C4089	2.00	1.83
● D3V-16G2-1C25-K	2	SPDT	Internal Hinge Lever	35K3181	2.88	2.69
● D3V-16G2M-1C25-K	2	SPDT	External Roller Lever	35K3182	2.39	2.26
● D3V-16G4-1C25-K	3	SPDT	Internal Sim. Roller Lever	35K3183	2.00	1.83
● D3V-16G6-1C25-K	4	SPDT	Internal Hinge Roller Lever	67K9327	3.39	3.11
● D3V-16G6M-1C25-K	4	SPDT	External Hinge Roller Lever	35K3184	2.78	2.58

(68293)

WATERTIGHT MINIATURE SNAP ACTION SWITCH


OMRON
ELECTRONIC COMPONENTS


Hinge Lever



Hinge Lever



Hinge Roller Lever



Simulated Roller Lever

- High-quality watertight miniature snap-action switch
- Meets IP67 (for lead wires) and IP50 (for terminal types) requirements
- Operating temperature range: -40°C to +85°C
- Rating: 3A at 250VAC

Switches with PC board terminals also available; go online or call Newark.

Mfg. Part No.	Operating Force (g)	Actuator	Terminals	Stock No.	Price Each		
					1-24	25-49	50-99
● D2SW-3HS	180	Pin Plunger	Solder	36K1918	3.28	3.01	2.87
● D2SW-3L1HS	60	Hinge Lever	Solder	83C8224	4.44	4.07	3.88
● D2SW-3L1MS	60	Hinge Lever	Lead Wires	36K3208	7.57	6.96	6.63
● D2SW-3L2HS	60	Hinge Roller Lever	Solder	34K3567	5.25	4.80	4.57
● D2SW-3L2MS	60	Hinge Roller Lever	Lead Wires	36K7263	6.80	6.48	6.03
● D2SW-3L3HS	60	Simulated Roller Lever	Solder	89C4660	6.02	5.52	5.26
● D2SW-3L3MS	60	Simulated Roller Lever	Lead Wires	35K3180	9.81	8.98	8.57

(75286)

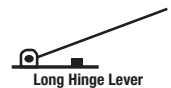
WATERTIGHT MINIATURE BASIC SWITCHES


OMRON
ELECTRONIC COMPONENTS


Pin Plunger



Short Hinge Roller Lever



Long Hinge Lever



Simulated Roller Lever



Hinge Lever



Hinge Roller Lever

High-quality, watertight, high-precision, miniature snap-action switches meet IP67 (IEC529) requirements (for lead wire types) and IP50 (for terminal types). Monoblock construction provides high sealing capability and is ideal for dusty places or where water is sprayed. Operating temperature: -40°C to +90°C.

0.1A

Mfg. Part No.	Actuator	Terminals	Stock No.	Price Each		
				1-24	25-49	50-99
● D2VW-01-1HS	Pin Plunger	Solder/Tab (#187)	91B0488	6.07	5.56	5.30
● D2VW-01-1MS	Pin Plunger	Lead Wires	36K1919	10.24	9.39	8.94
● D2VW-01L1-1HS	Hinge Lever	Solder/Tab (#187)	36K7264	5.36	4.76	4.42
● D2VW-01L1-1MS	Hinge Lever	Lead Wires	67K9323	13.08	11.99	11.44
● D2VW-01L2-1HS	Hinge Roller Lever	Solder/Tab (#187)	36K7265	7.29	6.68	6.36
● D2VW-01L2-1MS	Hinge Roller Lever	Lead Wires	35K4490	12.72	11.66	11.11

5A

● D2VW-5-1HS	Pin Plunger	Solder/Tab (#187)	83F5341	5.59	5.12	4.88
● D2VW-5-1MS	Pin Plunger	Wire Leads	36K7266	9.63	8.83	8.42
● D2VW-5L1B-1MS	Long Hinge Lever	Lead Wires	36K1920	7.43	6.83	6.51
● D2VW-5L2A-1HS	Hinge Roller Lever	Solder/Tab (#187)	36K3209	4.75	4.36	4.16
● D2VW-5L2A-1MS	Short Hinge Roller Lever	Lead Wires	36K7267	7.38	6.78	6.47

➤ CONTINUED ➤

SWITCHES – SNAP-ACTION

WATERTIGHT MINIATURE BASIC SWITCHES (CONT.)

5A

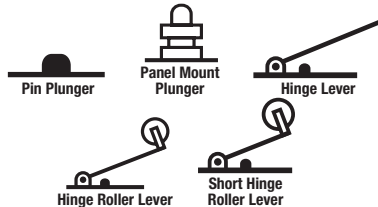
Mfg. Part No.	Actuator	Terminals	Stock No.	Price Each		
				1-24	25-49	50-99
● D2VW-5L3-1HS	Simulated Roller Lever	Quick Connect	83F5351	4.47	4.10	3.91
● D2VW-5L3-1MS	Simulated Roller Lever	Wire Leads	83F5352	6.97	6.40	6.11

(33975)

SNAP-ACTION SWITCHES


OMRON
ELECTRONIC COMPONENTS


Pin Plunger



- High-Capacity Switches Handle Up to 20A Loads with Large Inrush Currents
- Resistive Load: 20A, 250VAC
- Typical applications include halogen lamps, motors, and solenoids. Mechanical service life: 1,000,000 operations min. UL recognized, CSA certified, SEV approved.

SWITCHES

Mfg. Part No.	Actuator	Operating Force (g)	Stock No.	Price Each	
				1-24	25-49
● A-20G-B	Pin Plunger	400-625	17M6496	7.73	7.47
● A-20GQ-B	Panel Mount Plunger	400-625	22C7638	12.75	11.68
● A-20GQ-B7-K	Panel Mount Plunger	400-625	17M6497	14.09	12.92
● A-20GV-B	Hinge Lever	70	22C7648	8.42	7.72
● A-20GV-B7-K	Hinge Lever	70	52F3599	9.29	8.51
● A-20GV2-B	Hinge Roller Lever	90	17M6498	7.69	7.05
● A-20GV22-B	Short Hinge Roller Lever	160	22C7680	10.00	9.17

ACCESSORIES

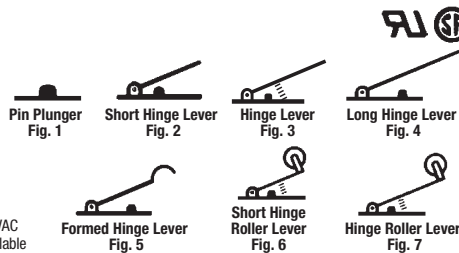
Mfg. Part No.	Description	Stock No.	Price Each	
			1-24	25-49
● AP-B	Phenolic Terminal Cover	36K1871	0.82	0.79
● AP-Z	Terminal Cover with Strain Relief	17M6566	4.79	4.32

(4977)

10A - 15A GENERAL-PURPOSE SNAP-ACTION SWITCHES


OMRON
ELECTRONIC COMPONENTS


Pin Plunger



- SPDT contacts
- Rated 10A and 15A @ 250VAC
- Thermoplastic material available
- 7 lever styles available

Tested to 125VDC/250VAC. To order thermoplastic material, replace -10 or -15 in mfg. part no. with -11 or -16, respectively. Pin plunger style illustrated. Other lever-style switches are same size. Service life: 50,000 operations. UL recognized, CSA certified.

10A

Mfg. Part No.	Operating Force (g)	Actuator	Fig.	Stock No.	Price Each	
					1-49	50-99
● V-10G-1C24-K	100	Pin Plunger	1	35K5059	2.01	1.85
● V-10G-1C25-K	200	Pin Plunger	1	36K7692	2.96	2.71
● V-10G2-1C24-K	60	Hinge Lever	3	52F3642	1.84	1.69
● V-10G2-1C25-K	125	Hinge Lever	3	89C8151	3.10	2.85
● V-10G3-1C24-K	35	Hinge Lever	4	52F3643	2.16	1.97
● V-10G4-1C24-K	60	Simulated Roller Lever	5	52F3644	2.48	2.27
● V-10G6-1C24-K	60	Hinge Roller Lever	6	52F3648	2.46	2.26
● V-10G4-1C25-K	125	Simulated Roller Lever	5	36K2079	2.51	2.29
● V-10G5-1C24-K	120	Hinge Roller Lever	6	36K7693	2.84	2.60
● V-10G5-1C25-K	240	Hinge Roller Lever	6	52F3647	2.46	2.26

15A

● V-15-1B6	400	Pin Plunger	1	35K2035	3.82	3.51
● V-15-3B6-K	400	Pin Plunger	1	68K0131	3.72	3.41
● V-15G-1C26-K	400	Pin Plunger	1	36K2080	2.33	2.10

▶ CONTINUED ▶

10A - 15A GENERAL-PURPOSE SNAP-ACTION SWITCHES (CONT.)

15A

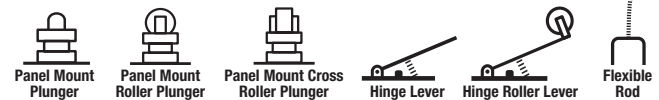
Mfg. Part No.	Operating Force (g)	Actuator	Fig.	Stock No.	Price Each	
					1-49	50-99
● V-15G-1C25-K	200	Pin Plunger	1	36K3716	2.34	2.13
● V15G1A5K	200	Pin Plunger	1	97B9375	2.31	2.12
● V-15G-1C5-K	200	Pin Plunger	1	89C8206	2.33	2.14
● V-15G-3C25-K	125	Pin Plunger	1	10M9737	1.90	1.75
● V-15G2-1C25-K	125	Hinge Lever	3	35K5060	1.70	1.64
● V-15G2-1C26-K	400	Hinge Lever	3	52F3652	2.37	2.17
● V-15G2-1A5-K	70	Hinge Lever	3	68K0132	2.27	2.08
● V-15G3-1C25-K	70	Hinge Lever	4	36K2081	2.01	1.85
● V-15G3-1C24-K	70	Hinge Lever	4	89C8233	2.58	2.33
● V-15G3-1C26-K	70	Hinge Lever	4	35K3231	2.58	2.37
● V-15G4-1C25-K	200	Simulated Roller Lever	5	52F3655	1.95	1.79
● V-15G5-1C25-K	125	Hinge Roller Lever	6	36K7694	2.46	2.26
● V-15G5-1C26-K	400	Hinge Roller Lever	6	36K7695	2.85	2.61
● V-15G6-1C25-K	125	Hinge Roller Lever	7	36K3717	2.47	2.26
● V-15G6-1C26-K	250	Hinge Roller Lever	7	36K7696	2.88	2.63

(4975)

GENERAL PURPOSE SNAP-ACTION SWITCHES



Short Hinge Roller Lever

OMRON
ELECTRONIC COMPONENTS


- Rated Current: 15A
- Resistive Load: 0.5, 125VDC

Z series are high-precision basic switches. Wide margins of operating conditions and broad operating speed range. UL recognized, CSA certified.

Mfg. Part No.	Operating Force (g)	Actuator	Stock No.	Price Each		
				1-24	25-49	50-99
● Z15HW24B7K	6	Low Force Lever	27M9672	8.36	7.69	7.34
● Z-15HW24-B	6	Hinged Lever	52F3676	8.36	7.69	7.34
● Z-15GW4-B	30	Hinge Lever	97B2874	13.55	12.42	11.83
● Z-15GNJ55-B7-K	50	Flexible Rod	93B6742	15.45	14.22	13.57
● Z-15GW-B	70	Hinge Lever	52F3668	8.31	7.62	7.26
● Z-15GW-B7-K	70	Hinge Lever	93B4431	7.58	6.94	6.62
● Z-15GW2-B	100	Hinge Roller Lever	52F3669	7.57	6.95	6.62
● Z-15GW2-B7-K	100	Hinge Roller Lever	27M9667	9.17	8.42	8.01
● Z-15GW22	100	Hinge Roller Lever	92B0737	10.94	10.07	9.61
● Z-15GW55-B	100	Hinge Lever	27M9669	9.40	8.65	8.25
● Z-15GW22-B7-K	150	Short Hinge Roller Lever	27M9668	7.77	7.13	6.80
● Z-15GW22-B	160	Short Hinge Roller Lever	52F3670	7.78	6.99	6.40
● Z-15G-B	350	Pin Plunger	52F3660	6.85	6.29	5.99
● Z-15GD-B	350	Short Spring Plunger	52F3661	8.41	7.71	7.35
● Z-15GQ-B	350	Panel Mount Plunger	52F3665	9.48	8.69	8.27
● Z-15GQ-B7-K	350	Panel Mount Plunger	98B9758	10.38	9.53	9.06
● Z-15GQ21-B	350	Panel Mount Cross Roller Plunger	52F3666	12.14	11.13	10.59
● Z-15GQ21-B7-K	350	Panel Mount Cross Roller Plunger	93B0864	13.54	12.42	11.81
● Z-15GQ22-B	350	Panel Mount Roller Plunger	52F3667	11.19	10.25	9.77
● Z15GQ22B7K	350	Panel Mount Roller Plunger	48F1599	11.93	10.98	10.48
● Z-15G-B7-K	350	Pin Plunger	06C1037	6.66	6.10	5.80
● Z-15GQ	350	Plunger	27M9666	10.10	9.30	8.87
● Z-15GD-B7-K	350	Short Spring Plunger	27M9665	7.61	6.97	6.64
● Z-15GS-B	350	Spring Plunger	94B9415	8.84	8.10	7.72
● ZE-Q22-2S	350	Roller Plunger	38B1433	51.36	50.03	48.70
● Z-15GQ22	350	Roller Plunger	26C0594	11.93	10.98	10.48
● Z-15GQ22A55-B5V	540	Roller Plunger	27C0022	21.17	19.49	18.60

(4976)

SWITCHES – TACTILE

MJTP SERIES TACTILE SWITCHES



- SPST Momentary Action
- Electrical Life: 100,000 Cycles Min.
- Through-Hole Mounting
- Silver-Plated Brass Terminals;
- Contact Rating: 50mA @ 12VDC
- Operating Temp.: -20°C to +70°C
- Black Thermoplastic Actuator



Fig. 1



Fig. 2



Fig. 3

Mfg. Part No.	Figure	Actuator Style	Length	Stock No.	Price Each
● MJTP1230	1	Round	0.170" (4.3)	19C7994	0.10
● MJTP1230A	1	Round	0.197" (5.0)	19C7995	0.17
● MJTP1230E	1	Round	0.287" (7.3)	19C7998	0.19
● MJTP1230C	1	Round	0.315" (8.0)	19C7996	0.20
● MJTP1230B	1	Round	0.374" (9.5)	19C8258	0.21
● MJTP1230D	1	Round	0.512" (13.0)	19C7997	0.23
● MJTP1234	2	Square	0.094" (2.4)	19C8270	0.26
● MJTP1234A	2	Square	0.110" (2.8)	19C7999	0.27
● MJTP1236	3	Flush Round	0.124" (3.1)	19C8000	0.26
● MJTP1236A	3	Flush Round	0.152" (3.9)	19C8001	0.26
● MJTP1236B	3	Flush Round	0.329" (8.4)	19C8002	0.29
● MJTP1236E	3	Flush Round	0.244" (6.2)	19C8005	0.31
● MJTP1236C	3	Flush Round	0.270" (6.9)	19C8003	0.27
● MJTP1236D	3	Flush Round	0.466" (11.9)	19C8004	0.34

(64585)

TL52 SERIES THRU HOLE TACTILE SWITCHES



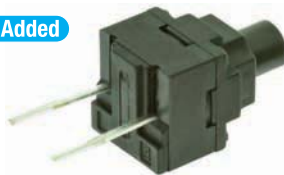
Features:

- Sealed to IP67 rating
- Radial packaging
- Silver contacts

Specifications:

- Mechanical Life: 100,000 cycles
- Force: 260 ± 50gf; 160 ± 50gf
- Travel: 0.3 +0.2/-0.1mm
- Contact rating: 50mA at 12VDC
- Contact resistance: 100mΩ
- Insulation resistance: 100MΩ
- Dielectric strength: 250VAC
- Bounce: 10ms

Just Added



Mfg. Part No.	Current (mA)	Circuitry	Operating Force (g)	Termination	Stock No.	Price Each
TL52AF160Q	50	SPST-NO	160	Through Hole	09R9915	0.67
TL52AF260Q	50	SPST-NO	260	Through Hole	09R9916	0.67

(148539)

TL1250 SERIES ILLUMINATED RIGHT ANGLE TACT SWITCHES



Features:

- Right-angle, thru-hole termination
- Single color LED options
- Sharp, tactile response
- Long travel

Specifications:

- Mechanical life: 50,000 cycles
- Force: 180 ± 60gf
- Travel: 0.2mm ± 0.1mm
- Contact rating: 50mA at 12VDC
- Contact resistance: 100mΩ
- Insulation resistance: 100MΩ
- Dielectric strength: 250VAC
- Bounce: 5ms



Just Added

Mfg. Part No.	Current (mA)	Operating Force (g)	LED Color	Termination	Stock No.	Price Each
TL1250F180BRRCLR	50	180	Blue	Through Hole	09R9912	5.39
TL1250F180GRRCLR	50	180	Green	Through Hole	09R9913	3.87
TL1250F180RRCLR	50	180	Red	Through Hole	09R9914	3.87

(148540)

TechCast®
Product
Training

Use the library of online training modules located on our homepage under Useful Tools, with specific guidance for complex solutions.

(148857)

SERIES TL1105 TACTILE SWITCHES



Features:

- Reliable dome contact technology
- Strong tactile/audible feedback
- Multiple operating force options

Specifications:

- Contact rating: 50mA at 12VDC
- Life expectancy: 100,000 cycles
- Contact resistance: 100mΩ max
- Insulation resistance: 100MΩ min
- Contact material: Silver-clad phosphor bronze
- Terminals: Silver plated brass
- Dielectric strength: 250VAC
- Operating temperature: -20°C to +70°C

Just Added



Right-Angle PCB

Mfg. Part No.	Current (mA)	Operating Force (g)	Actuator Length (mm)	Mounting Type	Stock No.	Price Each
● TL1105SPF100Q	50	100	2.8	Straight PCB	15N4489	0.21
● TL1105AF100Q	50	100	5	Straight PCB	15N4464	0.21
● TL1105F100Q	50	100	7	Straight PCB	15N4475	0.16
● TL1105SF100Q	50	100	8.35	Right-Angle PCB	15N4486	0.30
● TL1105BF100Q	50	100	9.5	Straight PCB	15N4467	0.16
● TL1105DF100Q	50	100	13	Straight PCB	15N4470	0.14
● TL1105LF100Q	50	100	17	Straight PCB	15N4480	0.26
● TL1105JAF160Q	50	160	2.4	Right-Angle PCB	15N4478	0.36
● TL1105SPF160Q	50	160	2.8	Straight PCB	15N4490	0.24
● TL1105WF160Q	50	160	3.15	Right-Angle PCB	15N4493	0.30
● TL1105VF160Q	50	160	3.85	Right-Angle PCB	15N4492	0.30
● TL1105F160Q	50	160	4.3	Straight PCB	15N4476	0.16
● TL1105AF160Q	50	160	5	Straight PCB	15N4465	0.21
● TL1105RF160Q	50	160	6.15	Right-Angle PCB	15N4484	0.30
● TL1105FF160Q	50	160	7	Straight PCB	15N4474	0.16
● TL1105EF160Q	50	160	7.3	Straight PCB	15N4473	0.16
● TL1105SF160Q	50	160	8.35	Right-Angle PCB	15N4487	0.30
● TL1105PF160Q	50	160	8.5	Straight PCB	15N4483	0.16
● TL1105BF160Q	50	160	9.5	Straight PCB	15N4468	0.16
● TL1105DF160Q	50	160	13	Straight PCB	15N4471	0.16
● TL1105LF160Q	50	160	17	Straight PCB	15N4481	0.26
● TL1105JAF250Q	50	250	2.4	Right-Angle PCB	15N4479	0.36
● TL1105SPF250Q	50	250	2.8	Straight PCB	15N4491	0.24
● TL1105WF250Q	50	250	3.15	Right-Angle PCB	15N4494	0.30
● TL1105AF250Q	50	250	5	Straight PCB	15N4466	0.24
● TL1105RF250Q	50	250	6.15	Right-Angle PCB	15N4485	0.27
● TL1105F250Q	50	250	7	Straight PCB	15N4477	0.14
● TL1105SF250Q	50	250	8.35	Right-Angle PCB	15N4488	0.27
● TL1105BF250Q	50	250	9.5	Straight PCB	15N4469	0.16
● TL1105DF250Q	50	250	13	Straight PCB	15N4472	0.16
● TL1105LF250Q	50	250	17	Straight PCB	15N4482	0.23

(121133)

SERIES TL 1100 TACTILE SWITCHES



Features:

- Reliable dome contact technology
- Strong tactile/audible feedback
- Multiple operating force options

Specifications:

- Contact rating: 50mA at 12VDC
- Life expectancy: 100,000 cycles
- Contact resistance: 100mΩ
- Insulation resistance: 100MΩ
- Contact material: Silver plated phosphor bronze
- Terminals: Silver plated copper alloy
- Dielectric strength: 250VAC
- Operating temperature: -20°C to 70°C
- Travel: 0.3 typ.

Just Added



Mfg. Part No.	Current (mA)	Operating Force (g)	Actuator Length (mm)	Termination	Stock No.	Price Each
● TL1100F160Q	50	160	3.3	Through Hole	15N4463	0.57
● TL1100DF160Q	50	160	4.3	Through Hole	15N4460	0.50
● TL1100EF160Q	50	160	7.5	Through Hole	15N4461	0.50
● TL1100FF160Q	50	160	12	Through Hole	15N4462	0.57

(121339)

SWITCHES – TACTILE

SERIES TL 1150
TACTILE SWITCHES

Features:

- Long operating life (1,000,000 cycles)
- 2-lead 6mm x 6mm design

Specifications:

- Contact rating: 50mA at 30VDC
- Life expectancy: 1,000,000 cycles
- Contact resistance: 100mΩ
- Insulation resistance: 100MΩ
- Dielectric strength: 600VAC
- Operating temperature: -25°C to 85°C
- Travel: 0.35mm



Just Added

Mfg. Part No.	Current (mA)	Operating Force (g)	Actuator Length (mm)	Termination	Stock No.	Price Each
● TL1150AF070Q	50	70	5.75	Through Hole	15N4495	0.51

(121340)

SERIES TL 1260
TACTILE SWITCHES

Features:

- Illuminated
- Right angle thru-hole tact switch
- Multiple colors available

Specifications:

- Contact rating: 50mA at 12VDC
- Life expectancy: 50,000 cycles
- Contact resistance: 100mΩ
- Insulation resistance: 100MΩ
- Dielectric strength: 500VAC
- Operating temperature: -20°C to 70°C



Just Added

Mfg. Part No.	Current (mA)	Operating Force (g)	Actuator	Mounting Type	Stock No.	Price Each
● TL1260BQRBLK	50	160	Round	PCB Through Hole	15N4496	2.13

(121341)

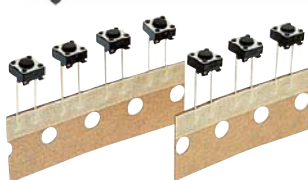
SERIES TL59/TL58
TACTILE SWITCHES

Features:

- Designed for automatic feed
- Radial lead packaging

Specifications:

- Contact rating: 50mA at 50VDC
- Life expectancy: 100,000 cycles
- Contact resistance: 10mΩ max
- Insulation resistance: 100MΩ
- Contact material: Silver plated phosphor bronze
- Terminals: Silver plated brass
- Dielectric strength: 1000VAC



Just Added

Mfg. Part No.	Current (mA)	Operating Force (g)	Actuator Length (mm)	Termination	Stock No.	Price Each
● TL59SPF160Q	50	160	2.8	Through Hole	15N4512	0.28
● TL59NF160Q	50	160	4.3	Through Hole	15N4511	0.28
● TL59AF160Q	50	160	5	Through Hole	15N4509	0.28
● TL59FF160Q	50	160	7	Through Hole	15N4510	0.32

(121346)

SERIES TL 6100
TACTILE SWITCHES

Just Added

Specifications:

- Contact rating: 50mA at 50VDC
- Life expectancy: 50,000 cycles
- Contact resistance: 50mΩ
- Insulation resistance: 1000MΩ min.
- Dielectric strength: 300VAC
- Operating temperature: -40°C to 85°C

Features:

- Multiple gram force options
- Multiple actuator lengths
- Process Sealed



Mfg. Part No.	Operating Force (g)	Actuator Length (mm)	Termination	Stock No.	Price Each
● TL6110AF130Q	130	3.5	Right Angle PCB Through Hole	15N4516	1.18
● TL6100AF130Q	130	4.7	Straight PCB Through Hole	15N4513	1.18

▶ CONTINUED ▶

SERIES TL 6100 TACTILE SWITCHES (CONT.)

Mfg. Part No.	Operating Force (g)	Actuator Length (mm)	Termination	Stock No.	Price Each
● TL6110AF160Q	160	3.5	Right Angle PCB Through Hole	15N4517	1.18
● TL6100AF300Q	300	4.7	Straight PCB Through Hole	15N4514	1.34
● TL6100DF300Q	300	10	Straight PCB Through Hole	15N4515	1.34

(121348)

SERIES TL 6190
TACTILE SWITCHES

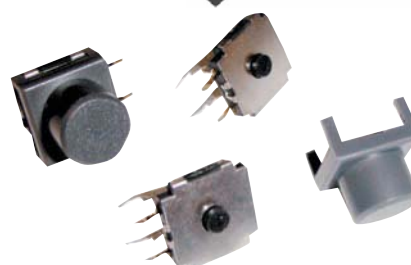
Just Added

Specifications:

- Contact rating: 50mA at 12VDC
- Life expectancy: 100,000 cycles
- Contact resistance: 100mΩ
- Insulation resistance: 100MΩ
- Dielectric strength: 500VDC
- Operating temperature: -40°C to +85°C
- Travel: 0.50mm

Features:

- Reliable dome technology
- Strong tactile force
- Multiple operating force
- Process sealed
- Right angle



Mfg. Part No.	Current (mA)	Operating Force (g)	Actuator Length (mm)	Termination	Stock No.	Price Each
● TL6190AF220R	50	220	2.9	Through Hole	15N4518	1.86

(121349)

SERIES TL 9000
TACTILE SWITCHES

Features:

- Long travel (1.5mm)
- Light force
- Carbon pill contact design

Specifications:

- Contact rating: 50 mA at 12VDC
- Life expectancy: 100,000 cycles min
- Contact resistance: 1000mΩ
- Insulation resistance: 100MΩ min
- Dielectric strength: 250VAC
- Terminals: Brass
- Operating temperature: -20°C to +70°C
- Travel: 1.0mm typ



Just Added

Mfg. Part No.	Current (mA)	Operating Force (g)	Features	Termination	Stock No.	Price Each
● TL9000F120Q	50	120	Soft Touch	Through Hole	15N4520	0.36

(121351)

NAVIGATION
SWITCHES

Just Added

Specifications:

- Contact rating: 20mA at 12VDC
- Life expectancy: 200,000 actuations in any direction (X, Y, or Z)
- Contact resistance: 500mΩ
- Insulation resistance: 100MΩ
- Dielectric strength: 100VAC
- Operating temperature: -25°C to 70°C

Features:

- 5-position joystick switch
- Available with or without mounting bosses
- Designed for SMT applications that require navigation



JS1200AAQ

JS1300AQ

JS5208

▶ CONTINUED ▶

SWITCHES – TACTILE

NAVIGATION SWITCHES (CONT.)

Mfg. Part No.	Travel	Actuator Length (mm)	Termination	Tape Cut		Tape and Reel	
				Stock No.	Price Each	Stock No.	Price Each
● JS1200AAQ	Push: 0.15mm; Tilt: .20mm	5	SMT	15N4453	2.38	...	...
● JS1300AAQ	Push: 0.15mm; Tilt: .20mm	1.55	SMT	15N4454	1.75	14P9499	2500 1.99
● JS5208	Tilt: 8°; Push: 1mm	1.55	SMT	15N4455	3.05	...	...

(121336)

SERIES TL 1014 TACTILE SWITCHES



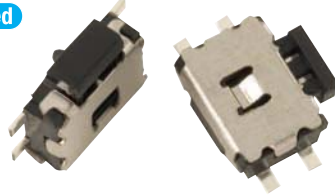
Features:

- Subminiature design
- Right-angle SMT

Specifications:

- Contact rating: 50mA at 12VDC
- Life expectancy: 100,000 cycles
- Contact resistance: 100mΩ max
- Insulation resistance: 100MΩ min
- Contact material: Stainless steel
- Terminals: Brass
- Dielectric strength: 250VAC
- Operating temperature: -20°C to +70°C
- Travel: 0.30mm

Just Added



Mfg. Part No.	Current (mA)	Operating Force (g)	Termination	Features	Tape Cut		Tape and Reel	
					Stock No.	Price Each	Stock No.	Price Each
● TL1014AF180QG	50	180	SMT	No Boss	15N4456	0.60	14P9500	3000 0.60
● TL1014BF180QG	50	180	SMT	Boss	15N4457	0.69	14P9501	3000 0.69

(121337)

SERIES TL 1015 TACTILE SWITCHES



Features:

- Ultra-miniature design
- SMT technology

Specifications:

- Contact rating: 50mA at 12VDC
- Life expectancy: 50,000 cycles min.
- Contact resistance: 100mΩ max
- Insulation resistance: 100MΩ min
- Contact material: Stainless steel
- Terminals: Brass
- Dielectric strength: 250 VAC
- Operating temperature: -20°C to +70°C
- Travel: 0.20mm

Just Added



Mfg. Part No.	Operating Force (g)	Termination	Features	Tape Cut		Tape and Reel	
				Stock No.	Price Each	Stock No.	Price Each
● TL1015AF160QG	160	SMT	No Boss	15N4458	0.77	14P9502	2500 0.77
● TL1015BF160QG	160	SMT	Boss	15N4459	0.77	14P9503	2500 0.77

(121338)

SERIES TL 3301 TACTILE SWITCHES



Features:

- SMT design
- Compatible with lead-free soldering

Specifications:

- Contact rating: 50mA at 12VDC
- Life expectancy: 100,000 cycles
- Contact resistance: 100mΩ
- Insulation resistance: 100MΩ
- Contact material: Silver plated phosphor bronze
- Terminals: Silver plated brass
- Dielectric strength: 250VAC
- Operating temperature: -20°C to 70°C
- Travel: 0.25"

Just Added



Mfg. Part No.	Operating Force (g)	Actuator Length (mm)	Termination	Tape Cut		Tape and Reel	
				Stock No.	Price Each	Stock No.	Price Each
● TL3301SPF160QG	160	2.8	SMT Gull Wing	15N4503	0.46	14P9510	700 0.46
● TL3301NF160QG	160	4.3	SMT Gull Wing	15N4500	0.46	14P9507	1000 0.46
● TL3301NF160QJ	160	4.3	SMT J-Hook	15N4501	0.53	14P9508	1100 0.53
● TL3301AF160QG	160	5	SMT Gull Wing	15N4497	0.41	14P9504	1000 0.46
● TL3301AF160QJ	160	5	SMT J-Hook	15N4498	0.47	14P9505	700 0.53
● TL3301SPF260QG	260	2.8	SMT Gull Wing	15N4504	0.41	14P9511	700 0.46

▶ CONTINUED ▶

SERIES TL 3301 TACTILE SWITCHES (CONT.)

Mfg. Part No.	Operating Force (g)	Actuator Length (mm)	Termination	Tape Cut		Tape and Reel	
				Stock No.	Price Each	Stock No.	Price Each
● TL3301NF260QG	260	4.3	SMT Gull Wing	15N4502	0.41	14P9509	1000 0.46
● TL3301AF260QG	260	5	SMT Gull Wing	15N4499	0.46	14P9506	1000 0.46

(121342)

SERIES TL 3302 TACTILE SWITCHES



Features:

- 3.5 x 6mm packaged design
- Reliable dome contact technology
- Strong tactile/audible feedback

Specifications:

- Contact rating: 50mA at 12VDC
- Life expectancy min: 20,000 cycles
- Contact resistance: 100mΩ max
- Insulation resistance: 100MΩ min
- Contact material: Silver-clad phosphor bronze
- Terminals: Silver-clad brass
- Dielectric strength: 250VAC
- Operating temperature: -20°C to 70°C

Just Added



Mfg. Part No.	Operating Force (g)	Actuator Length (mm)	Termination	Tape Cut		Tape and Reel	
				Stock No.	Price Each	Stock No.	Price Each
● TL3302AF180QG	180	4.3	SMT Gull Wing	15N4505	0.52	14P9512	1800 0.59
● TL3302BF180QG	180	5	SMT Gull Wing	15N4506	0.52	14P9513	1800 0.59

(121343)

SERIES TL3315 TACTILE SWITCHES

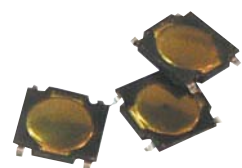


Features:

- Very low profile
- Surface mount

Specifications:

- Contact rating: 50mA at 15VDC
- Electrical Life: 1,000,000 cycles - 100gf; 500,000 cycles - 160gf; 200,000 cycles - 250gf
- Contact resistance: 200mΩ
- Insulation resistance: 50MΩ
- Dielectric strength: 250VAC
- Travel: 0.20mm



Mfg. Part No.	Current (mA)	Operating Force (g)	Termination	Tape Cut		Tape and Reel	
				Stock No.	Price Each	Stock No.	Price Each
● TL3315NF160Q	50	160	SMT Gull Wing	15N4507	0.21	15N4507	5000 0.21
● TL3315NF160Q	50	160	SMT Gull Wing	14P9514	0.21	...	...

(121344)

SERIES TL 3340 TACTILE SWITCHES



Features:

- Reliable dome technology
- Strong tactile force
- Subminiature design
- SMT

Specifications:

- Contact rating: 50mA at 12VDC
- Life expectancy: 100,000 cycles
- Contact resistance: 500mΩ
- Insulation resistance: 100MΩ
- Dielectric strength: 500VDC
- Operating temperature: -35°C to +85°C

Just Added



Mfg. Part No.	Operating Force (g)	Actuator Length (mm)	Termination	Tape Cut		Tape and Reel	
				Stock No.	Price Each	Stock No.	Price Each
● TL3340AF160QG	160	3.4	SMT Gull Wing	15N4508	0.58	14P9515	2000 0.65

(121345)



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(148830)

SWITCHES – TACTILE

SERIES TL 6700
TACTILE SWITCHES

Features:

- Process Sealed SMT Tact Switch
- Improved Seal Design
- Protected against more aggressive wash processes

Specifications:

- Contact rating: 50mA at 12VDC
- Life expectancy: 100,000 cycles
- Contact resistance: 100mΩ
- Insulation resistance: 100MΩ
- Dielectric strength: 250VAC
- Operating temperature: -20°C to 70°C
- Travel: 0.35mm

Just Added



Mfg. Part No.	Operating Force (g)	Actuator Length (mm)	Termination	Tape Cut		Tape and Reel	
				Stock No.	Price Each	Stock No.	Price Each
● TL6700AF160QG	160	3.4	SMT Gull Wing	15N4519	0.85	14P9516	0.97

(121350)

TL3200 SERIES
TACTILE SWITCHES

NEW TECHNOLOGY



Features:

- Dual LED, SMT design
- Ultra miniature design
- Single or dual color option

Specifications:

- Contact rating: 50mA at 12VDC
- Life expectancy: 30,000 cycles
- Contact resistance: 500mΩ
- Insulation resistance: 100MΩ
- Dielectric strength: 250VAC
- Travel: 0.25mm
- Operating temperature: -25°C to 85°C



Mfg. Part No.	Operating Force (g)	LED 1	LED 2	Stock No.	Price 1-9
TL3200AF160RRQ	160	Red	Red	15N9434	3.61
TL3200AF160GRQ	160	Green	Red	15N9431	3.61

(142337)

TL1290 SERIES
TACTILE SWITCHES

NEW TECHNOLOGY



Features:

- Right Angle, through hole termination
- Single color LED options available
- Gold plated contacts for high reliability switching
- Sharp, tactile response
- Long travel

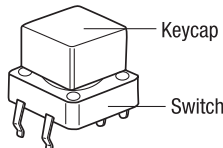
Specifications:

- Electrical Life: 25,000 cycles
- Contact Rating: 100mA @ 32VDC
- Contact Resistance: 250mΩ (initial max)
- Insulation Resistance: 100MΩ (Min @ 500VDC)
- Dielectric Strength: 250VAC
- Operating Temperature: -20°C to +70°C



Mfg. Part No.	Operating Force (g)	Actuator Color	Stock No.	Price Each
				1-9
TL1290AF500RR	500	Red	73P4621	5.85
TL1290AF500GR	500	Green	73P4620	5.85
TL1290AF500BR	500	Blue	73P4619	5.85

(142336)

KEYCAPS
FOR TACTILE
SWITCHES

Keycaps are available in different sizes and colors for exclusive use of the 6x6 mm and 12x12 mm projected plunger versions of B3F and B3W Series on pages 1795-1796.

SQUARE CAPS FOR USE WITH 6 x 6mm SWITCHES

Mfg. Part No.	Cap Size (mm) (H x W x L)	Keycap Color	Stock No.	Price Each		
				1-24	25-49	50-99
● B32-1000	4 x 4 x 5.5	Gray	33K4362	0.27	0.25	0.22
● B32-1010	4 x 4 x 5.5	Black	52F3564	0.27	0.25	0.22
B32-1020	4 x 4 x 5.5	Orange	36M3733	0.26	0.24	0.23
● B32-1030	4 x 4 x 5.5	Yellow	89C4235	0.27	0.25	0.22
● B32-1040	4 x 4 x 5.5	Blue	89C4236	0.27	0.25	0.22

➔ CONTINUED ➔

KEYCAPS FOR TACTILE SWITCHES (CONT.)

Mfg. Part No.	Cap Size (mm) (H x W x L)	Keycap Color	Stock No.	Price Each		
				1-24	25-49	50-99
● B32-1060	4 x 4 x 5.5	White	89C4238	0.27	0.25	0.22
● B32-1070	4 x 4 x 5.5	Green	89C4239	0.27	0.25	0.22
● B32-1080	4 x 4 x 5.5	Red	36K7144	0.27	0.25	0.22

SQUARE CAPS FOR USE WITH 12 x 12mm SWITCHES

● B32-1200	9 x 9 x 5.5	Gray	52F3565	0.27	0.25	0.22
● B32-1210	9 x 9 x 5.5	Black	35K3176	0.27	0.25	0.22
● B32-1220	9 x 9 x 5.5	Orange	89C4241	0.27	0.25	0.22
● B32-1230	9 x 9 x 5.5	Yellow	89C4242	0.27	0.25	0.22
● B32-1240	9 x 9 x 5.5	Blue	89C4243	0.27	0.25	0.22
● B32-1250	9 x 9 x 5.5	Light Green	89C4244	0.24	0.22	0.20
● B32-1260	9 x 9 x 5.5	White	89C4245	0.27	0.25	0.22
● B32-1270	9 x 9 x 5.5	Green	89C4246	0.27	0.25	0.22
● B32-1280	9 x 9 x 5.5	Red	89C4247	0.27	0.25	0.22
● B32-1300	12 x 12 x 5.5	Gray	52F3567	0.27	0.25	0.22
● B32-1310	12 x 12 x 5.5	Black	52F3568	0.27	0.25	0.22
● B32-1320	12 x 12 x 5.5	Orange	89C4248	0.27	0.25	0.22
● B32-1330	12 x 12 x 5.5	Yellow	84C9544	0.27	0.25	0.22
● B32-1340	12 x 12 x 5.5	Blue	84C9533	0.27	0.25	0.22
● B32-1360	12 x 12 x 5.5	White	84C9539	0.27	0.25	0.22
● B32-1350	12 x 12 x 5.5	Light Green	89C4249	0.27	0.25	0.22
● B32-1370	12 x 12 x 5.5	Green	89C4250	0.27	0.25	0.22
● B32-1380	12 x 12 x 5.5	Red	84C9528	0.27	0.25	0.22
● B32-1400	12 x 12 x 5.5	Gray	89C4251	0.30	0.28	0.25

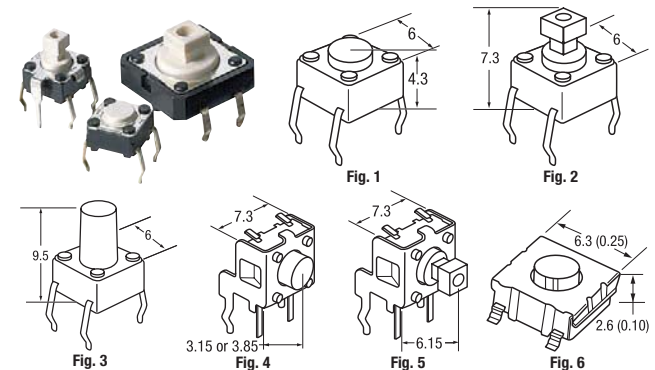
ROUND CAPS FOR USE WITH 12 x 12mm SWITCHES

● B32-1610	9.5 dia.	Black	89C4253	0.38	0.35	0.31
● B32-1620	9.5 dia.	Orange	89C4254	0.38	0.35	0.31
● B32-1630	9.5 dia.	Yellow	89C4255	0.38	0.35	0.31

(75288)

TACTILE
SWITCHES

Just Added



- Contact form: SPST-NO
- Contact resistance: 100 milliohms max (at 5VDC, 1mA; initial value)
- Insulation resistance: 100 megaohms min (at 250VDC)
- Dielectric strength: 500VAC, 50/60Hz for 1 minute
- Bounce time: 5ms max.
- Switching capacity: 5 to 24VDC, 1 to 50mA (resistive load)
- Insulation voltage: 30VDC
- Taped radial type, vertical type, high-force available
- Suffix "P" indicates embossed tape packaging

Reset force: 20g (B3F-1, B3F-3, B3F-6 and B3FS); 30g (B3F-4). Pretravel: 0.25 +0.2/-0.1 (B3F-1, B3F-3, B3F-6 and B3FS); 0.3 +0.2/-0.1 (B3F-4). Order keycaps separately on this page.

6 x 6mm WITHOUT GROUND TERMINALS

Mfg. Part No.	Fig.	Plunger	Operating Force (g)	Height (mm)	Termination	Stock No.	Price Each	
							1-24	25-49
● B3F-1000	1	Flat	100	4.30	Through Hole	36K7138	0.28	0.26
● B3F-1005	1	Flat	100	4.30	Through Hole	89C4130	0.32	0.29
● B3F-1020	1	Flat	100	5.00	Through Hole	52F3547	0.33	0.30
● B3F-1002-G**	1	Flat	180	4.30	Through Hole	34K0482	2.77	2.50
● B3F-1022	1	Flat	150	5.00	Through Hole	36K7140	0.33	0.30
● B3F-1022G**	1	Flat	150	5.00	Through Hole	89M6976	2.32	2.06
● B3F-1025	1	Flat	260	5.00	Through Hole	89C4134	0.36	0.33
● B3F-1006	1	Flat	500	4.30	Through Hole	89C4132	0.63	0.57
● B3F-1050	2	Projected	100	7.30	Through Hole	36K7141	0.33	0.30
● B3F-1052	2	Projected	150	7.30	Through Hole	52F3550	0.33	0.30

➔ CONTINUED ➔

SWITCHES – TACTILE

TACTILE SWITCHES (CONT.)

Mfg. Part No.	Fig.	Plunger	Operating Force (g)	Height (mm)	Termination	Stock No.	Price Each		
							1-24	25-49	
● B3F-1055	2	Projected	260	7.30	Through Hole	89C4137	0.53	0.48	
● B3F-1070	3	Extended	100	9.50	Through Hole	52F3551	0.36	0.33	

6 x 6mm MODELS WITH GROUND TERMINALS

● B3F-1102-G**	1	Flat	150	4.30	Through Hole	34K0483	2.92	2.63	
● B3F-1122G**	1	Flat	150	5.00	Through Hole	89M6977	2.42	2.15	
● B3F-1100	1	Flat	100	4.30	Through Hole	89C4142	0.33	0.30	
● B3F-1102	1	Flat	150	4.30	Through Hole	89C4143	0.33	0.30	
● B3F-1120	1	Flat	100	5.00	Through Hole	89C4145	0.33	0.30	
● B3F-1122	1	Flat	150	5.00	Through Hole	89C4146	0.33	0.30	
● B3F-1125	1	Flat	260	5.00	Through Hole	89C4148	0.39	0.36	
● B3F-1150	2	Projected	100	7.30	Through Hole	89C4149	0.33	0.30	
● B3F-1152	2	Projected	150	7.30	Through Hole	90B2972	0.33	0.30	
● B3F-3100	4	Flat	100	3.15	Through Hole	89C4153	0.51	0.46	
● B3F-3102	4	Flat	150	3.15	Through Hole	89C4154	0.46	0.40	
● B3F-3120	4	Flat	100	3.85	Through Hole	52F3552	0.45	0.41	
● B3F-3122	4	Flat	150	3.85	Through Hole	52F3553	0.45	0.41	
● B3F-3125	4	Flat	260	3.85	Through Hole	89C4157	0.54	0.49	
● B3F-3150	5	Projected	100	6.15	Through Hole	52F3554	0.45	0.41	
● B3F-3152	5	Projected	150	6.15	Through Hole	52F3555	0.45	0.41	
● B3F-3155	5	Projected	260	6.15	Through Hole	23C2739	0.54	0.48	

6 x 6mm RADIAL MODELS WITHOUT GROUND TERMINALS

● B3F-6000BYOMZ	...	Flat	100	4.30	Through Hole	89C4167	0.37	0.33	
● B3F-6002	...	Flat	150	4.30	Through Hole	39P9780	0.30	0.27	
● B3F-6020*	...	Flat	100	5.00	Through Hole	89C4170	0.32	0.28	
● B3F-6022*	...	Flat	150	5.00	Through Hole	89C4171	0.35	0.31	
● B3F-6050	...	Projected	100	7.30	Through Hole	89C4173	0.36	0.32	

6 x 6mm SURFACE MOUNT MODELS

● B3FS-1000	6	Flat	100	3.10	SMT Gull Wing	36K3106	0.47	0.44	
● B3FS-1002	6	Flat	150	3.10	SMT Gull Wing	36K1873	0.49	0.46	
● B3FS-1000P	6	Flat	100	3.10	SMT Gull Wing	34K1328	0.55	0.50	
● B3FS-1002P	6	Flat	150	3.10	SMT Gull Wing	09J1583	0.55	0.50	
● B3F-S1010	6	Flat	100	4.30	SMT Gull Wing	89M6972	0.61	0.54	
● B3F-S1012	6	Flat	150	4.30	SMT Gull Wing	89M6973	0.60	0.53	
● B3F-S1052	...	Projected	150	7.30	SMT Gull Wing	89M6975	2.04	1.81	

12 x 12mm MODELS WITHOUT GROUND TERMINALS

● B3F-4000	1	Flat	130	4.30	Through Hole	36K3105	0.45	0.41	
● B3F-4005	1	Flat	260	4.30	Through Hole	52F3557	0.45	0.41	
● B3F-5000	1	Flat	130	4.30	Through Hole	93B2941	0.54	0.49	
● B3F-5051	2	Projected	130	7.30	Through Hole	89C4165	2.61	2.35	
● B3F-5050	2	Projected	130	7.30	Through Hole	88F4982	0.54	0.49	
● B3F-4050	2	Projected	130	7.30	Through Hole	36K7142	0.45	0.41	
● B3F-4055	2	Projected	260	7.30	Through Hole	36K1872	0.45	0.41	

12 x 12mm MODELS WITH GROUND TERMINALS

● B3F-5100	1	Flat	130	4.30	Through Hole	90B3348	0.65	0.59	
● B3F-4100	1	Flat	130	4.30	Through Hole	23C2176	0.54	0.49	
● B3F-4105	1	Flat	260	4.30	Through Hole	89C4163	0.54	0.49	
● B3F-5150	2	Projected	130	7.30	Through Hole	90B3112	0.65	0.59	
● B3F-5151	2	Projected	130	7.30	Through Hole	91B7507	2.17	1.99	
● B3F-4150	2	Projected	130	7.30	Through Hole	94B1326	0.54	0.49	
● B3F-4155	2	Projected	260	7.30	Through Hole	25C4356	0.54	0.49	

* Height is 5mm.

** Gold plated contacts (75289)

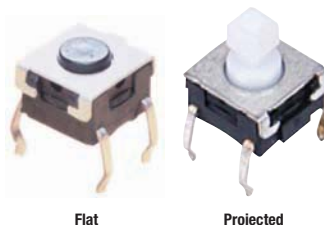
TACTILE SWITCHES (Just Added)


OMRON.
ELECTRONIC COMPONENTS

- Contact form: SPST-NO
- Contact resistance: 100mΩ min. (@ 250VDC)
- Dielectric strength: 50VAC, 50/60Hz for 1 min.
- Bounce time: 5ms max.
- Switching capacity: 50mA 24VDC (resistive load)

B3W series are ideal for applications such as audio, office and communications equipment, measuring instruments, industrial robots, VCRs, and vending machines. Switch height x pitch: 4.3 x 6.5mm (flat plunger); 7.3 x 6.5mm (projected plunger).

STANDARD 6 x 6mm WITHOUT GROUND TERMINAL



Flat

Projected

➤ CONTINUED ➤

TACTILE SWITCHES (CONT.)

Mfg. Part No.	Plunger	Operating Force (g)	Release Force (g)	Pretravel (mm)	Height (mm)	Stock No.	Price Each		
							1-49	50-99	100-249
● B3W-1002	Flat	230	50	0.25	4.3	17C6891	0.46	0.43	0.41

STANDARD 6 x 6mm WITH GROUND TERMINAL

● B3W-1100	Flat	160	20	0.25	4.3	19P8383	0.48	0.43	0.39
● B3W-1102	Flat	230	50	0.25	4.3	19P8384	0.48	0.43	0.39
● B3W-1150	Projected	160	20	0.25	7.3	19P8385	0.48	0.43	0.39
● B3W-1152	Projected	230	50	0.25	7.3	89C4225	0.53	0.48	0.43

STANDARD 12 x 12mm WITHOUT GROUND TERMINAL

● B3W-4000	Flat	200	30	0.30	4.3	17C6894	0.66	0.61	0.56
● B3W-4005	Flat	350	50	0.30	4.3	19P8386	0.57	0.51	0.46
● B3W-4050	Projected	200	30	0.30	7.3	36K3107	0.58	0.54	0.50
● B3W-4055	Projected	350	50	0.30	7.3	43K6668	0.56	0.52	0.49

STANDARD 12 x 12mm WITH GROUND TERMINAL

● B3W-4100	Flat	200	30	0.30	4.3	19P8387	0.57	0.51	0.46
● B3W-4105	Flat	350	50	0.30	4.3	19P8388	0.64	0.57	0.51
● B3W-4150	Projected	200	30	0.30	7.3	19P8389	0.57	0.51	0.46
● B3W-4155	Projected	350	50	0.30	7.3	19P8390	0.57	0.51	0.46

(75290)

MIDDLE STROKE TACTILE SWITCHES

(Just Added)

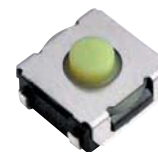

OMRON.
ELECTRONIC COMPONENTS

Features:

- Middle stroke and crisp clicking action
- Sealed construction conforming to IP64 (IEC 60529)
- Provides high contact reliability in dusty environments
- Crisp click feeling and middle stroke with rubber plunger
- Surface mounting

Specifications:

- Contact rating: 50mA at 12VDC
- Contacts: SPST-NO
- Contact resistance: 100 mΩ max
- Insulation resistance: 100 MΩ min
- Dielectric strength: 250VAC
- Bounce time: 5 ms max



B3SL-1002P



B3SL-1022P

- Mechanical life: 100,000 operations min
- Operating force: 30N max
- Operating temperature: 0.25°C to 90°C

Mfg. Part No.	Current (mA)	Circuitry	Operating Force (g)	Actuator Height (mm)	Termination	Stock No.	Price Each	
							1-24	
● B3SL-1002P	50	SPST-NO	200	0.9	SMT	58P0447	0.47	
● B3SL-1022P	50	SPST-NO	200	2.6	SMT	58P0448	0.47	

(142247)

HINGED TYPE TACTILE SWITCHES


OMRON.
ELECTRONIC COMPONENTS

Features:

- Quick, superior snap action through hook-type hinge construction
- Available with 1 or 2 LEDs or without LEDs.
- The hinge button is available in a wide variety of colors (five standard colors).

Specifications:

- Switching capacity: 1 to 50mA, 5 to 24VDC
- Operating temperature: -25°C to 70°C
- Ambient humidity 35% to 85%
- Circuitry: SPST-NO
- Contact resistance: 100mΩ max
- Insulation resistance: 100MΩ min
- Dielectric strength: 500VAC, 50% Hz for 1 min
- Bounce time: 5ms max
- Life expectancy: 3,000,000 operations min.
- Weight Approx: 1.5 to 1.7g



Mfg. Part No.	Current (mA)	Operating Force (g)	Color of Hinged Button	LED	Termination	Stock No.	Price Each	
							1-24	
● B3J-1000	50	180	Light Gray	...	PCB/Push-on	34C6072	1.61	
● B3J-1100	50	180	Black	...	PCB/Push-on	97B3191	1.61	
● B3J-1400	50	180	Blue	...	PCB/Push-on	89C4190	1.61	
● B3J-1200	50	180	Orange	...	PCB/Push-on	89C4188	1.61	
● B3J-1300	50	180	Yellow	...	PCB/Push-on	89C4189	1.61	
● B3J-2000	50	180	Light Gray	Red	PCB/Push-on	89C4191	2.87	
● B3J-2100	50	180	Black	Red	PCB/Push-on	89C4193	2.87	
● B3J-4000	50	180	Light Gray	Green	PCB/Push-on	89C4200	2.87	
● B3J-4100	50	180	Black	Green	PCB/Push-on	89C4201	2.87	
● B3J-6000	50	180	Light Gray	Red/Green	PCB/Push-on	89C4207	4.04	
● B3J-6100	50	180	Black	Red/Green	PCB/Push-on	89C4208	4.04	

(11062)

SWITCHES – TACTILE

COMPACT ILLUMINATED
TACTILE SWITCHES
OMRON
ELECTRONIC COMPONENTS

Features:

- Compact construction (10x10x11mm height) with bright and uniform illumination
- Three-color illumination (red LED + green LED = orange)
- Standard force: 1.57N; high-force models: 2.26N also available; *go online or call*
- RoHS compliant

Specifications:

- Max switching capacity: 50mA at 24VDC
- Circuitry: SPST-NO
- Bounce time: 5 ms max.
- Operational life: 1.57N (standard-force): 1,000,000 operations min; 2.26N (high-force): 300,000 operations min
- Operating temperature: -25°C to 70°C
- Switch operation: (On)
- (On) = Momentary action

STANDARD-FORCE SWITCHES WITH 1 LED

Mfg. Part No.	Operating Force (N)	LED Color	Cap Color	Stock No.	Price Each
● B3W-9000-B1B	1.57	Blue	Blue	75M9358	3.96
● B3W-9000-B1N	1.57	Blue	Milky White	75M9361	3.96
● B3W-9000-G1C	1.57	Green	Clear	75M9365	2.80
● B3W-9000-G1N	1.57	Green	Milky White	75M9367	2.46
● B3W-9000-R1R	1.57	Red	Red	75M9381	2.46
● B3W-9000-R1N	1.57	Red	Milky White	75M9380	2.46
● B3W-9000-Y1N	1.57	Yellow	Milky White	75M9386	2.46
● B3W-9000-Y1Y	1.57	Yellow	White	75M9387	2.46

STANDARD-FORCE SWITCHES WITH 2 LEDs

● B3W-9000-RG2N	1.57	Red/Green	Milky White	75M9378	3.27
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TACTILE
SWITCHES
OMRON
ELECTRONIC COMPONENTS


B3S series are surface mount switches ideal for high-density packaging. Sealed construction allows tactile switches to be mounted and soldered to a PC board. SPST contacts. Ideal for applications such as audio, office, and communications equipment, measuring instruments, industrial robots, VCRs, TVs, and vending machines. Switching capacity: 50mA 240VDC (resistive load). Permissible load: 1mA 5VDC (resistive load). "P" suffix denotes embossed tape packaging.

WITHOUT GROUND TERMINALS

Mfg. Part No.	Operating Force (g)	Stock No.	Price Each		
			1-24	25-49	50-99
● B3S-1000	160	52F3560	0.64	0.58	0.52
● B3S-1000P	160	50B6363	0.66	0.60	0.54
● B3S-1002	230	52F3561	0.55	0.51	0.48
● B3S-1002P	230	89C4217	0.77	0.70	0.62

WITH GROUND TERMINALS

● B3S-1100	160	36K7143	0.64	0.58	0.52
● B3S-1100P	160	89C4218	0.63	0.57	0.51
● B3S-1102	230	35K4339	0.64	0.58	0.52

B3SN series surface-mount mechanical key switches have a sealed construction for dusty or humid environments. J-lead style SMT. Compact and more than 1 mm thinner than conventional mechanical tactile switches. SPST-NO contacts. Rated 0.1A, 30VDC (resistive load). Switching capacity: 5 - 24VDC, 1 - 30mA. "P" suffix denotes embossed tape packaging.

WITHOUT GROUND TERMINALS

Mfg. Part No.	Operating Force (g)	Stock No.	Price Each		
			1-24	25-49	50-99
● B3SN-3012	160	34K1329	0.99	0.89	0.80
● B3SN-3012P	160	20C3997	0.95	0.86	0.77

WITH GROUND TERMINALS

● B3SN-3112P	160	34K1331	0.95	0.86	0.77
● B3SN-3112	160	89C4220	0.97	0.87	0.79

(11927)



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TACTILE
SWITCHES
FSM SERIES

Just Added


Tyco Electronics


Fig. 1



Fig. 2



Fig. 3

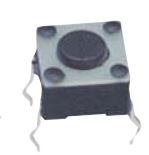


Fig. 4

- Circuitry: SPST
- Contact rating: 50mA

- Switch operation: Off-(On)
- (On) = Momentary action

Mfg. Part No.	Fig.	Actuator Style	Actuator Profile	Actuator Length (mm)	Termination	Stock No.	Price Each
							1-9
● FSM1LPATR	1	Round	Extended	0.27	PCB Through Hole	14H0904	0.61
● FSM102	1	Round	Extended	8.02	PCB Through Hole	14H0907	0.48
● FSM4JRT	2	Round	Extended	1.40	PCB Through Hole	14H0928	0.25
● FSM2JSMA	3	Round	Extended	0.70	SMT Gull Wing	92F2864	0.40
● FSM2JSMATR	3	Round	Extended	0.70	SMT Gull Wing	14H0923	0.44
● FSM6JSMA	3	Round	Extended	3.40	SMT Gull Wing	13H3387	0.56
● FSM100	4	Round	Flush	...	PCB Through Hole	14H0906	0.42
● FSMRA2J	...	Round	Extended	1.25	Straight PCB Through Hole	77C5359	0.53
● FSMRACD	...	Square	Extended	2.89	Straight PCB Through Hole	90B1602	0.39
● FSM5M	...	Rectangular	Extended	1.07	SMT Gull Wing	92F2863	0.60
● FSM103	...	Square	Extended	1.80	PCB Through Hole	11H4186	0.52

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DTS SERIES
TACTILE SWITCHES
multicomp

Features:

- Sharp click feel with a positive tactile feedback
- Ultraminiature and light weight structure suitable for high density mounting
- Insert moulding in the contact with special treatment prevents flux build-up during soldering and permits auto-dipping
- Tin-plated steel cover

Specifications:

- Operation Force : 260 ±50g; 100 ±50g
- Stroke : (6 x 6)0.25 (+0.2mm/-0.1mm)
- Operating temperature: -25°C to +70°C
- Vibration test : MIL-STD-202F Method 201A
- Directions: X, Y, Z, three mutually perpendicular directions
- Time: 2 hours each direction
- Shock test: MIL-STD-202F Method 213B

Mfg. Part No.	Current (mA)	Operating Force (g)	Termination	Stock No.	Price Each
					1-249
● DTSL-61K-B	50	160	SMT	96K8954	0.31
● DTSL-61R-B	50	260	SMT	96K8955	0.31
● DTSM-32S-B	50	320	SMT	96K8956	0.18

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TS SERIES PUSHBUTTON
TACTILE SWITCHES
multicomp

Features:

- Illuminated and non-illuminated versions
- Housing color: Black
- Cap color: 2 = Black, 3 = Red, 6 = Green

Specifications:

- Circuitry: SPST
- Contact rating: 50mA at 12VDC
- Dielectric Voltage: 250Vac
- Contact resistance: 100mΩ
- Operating force: 160gf
- Total travel : 0.25mm
- Operational life : 100,000 cycles
- Operating temperature: 10°C to 160°C
- Function: Off-(On)
- (On) = Momentary action

NON-ILLUMINATED

Mfg. Part No.	Current (mA)	Circuitry	Action	Actuator Style	Actuator Color	Termination	Stock No.	Price Each
● TS0A22	50	SPST	Off-(On)	Square	Black	Through Hole	95M4488	1.13
● TS0A23	50	SPST	Off-(On)	Square	Red	Through Hole	95M4489	1.13
● TS0A26	50	SPST	Off-(On)	Square	Green	Through Hole	95M4490	1.13
● TS0B22	50	SPST	Off-(On)	Round	Black	Through Hole	95M4491	1.13

➤ CONTINUED ➤

SWITCHES – TACTILE

TS SERIES PUSHBUTTON TACTILE SWITCHES (CONT.)

Mfg. Part No.	Current (mA)	Circuitry	Action	Actuator Style	Actuator Color	Termination	Stock No.	Price Each
● TS0B23	50	SPST	Off-(On)	Round	Red	Through Hole	95M4492	1.13
● TS0B26	50	SPST	Off-(On)	Round	Green	Through Hole	95M4493	1.13

ILLUMINATED

● TS3A23	50	SPST	Off-(On)	Square	Red	Through Hole	95M4494	1.39
● TS6A26	50	SPST	Off-(On)	Square	Green	Through Hole	95M4496	1.39
● TS3B23	50	SPST	Off-(On)	Round	Red	Through Hole	95M4495	1.39
● TS6B26	50	SPST	Off-(On)	Round	Green	Through Hole	95M4497	1.39

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J-BEND SMT TACTILE SWITCHES

Just Added



- Contact rating: 50mA at 12VDC
- Circuitry: SPST-NO
- Electrical life: 500,000 cycles

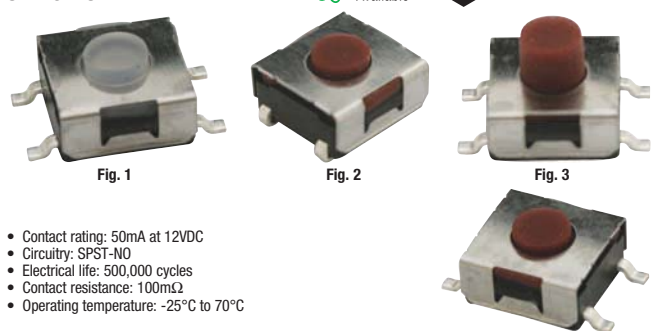
- Contact resistance: 100mΩ
- Operating temperature: -25°C to 70°C

Mfg. Part No.	Fig.	Current (mA)	Operating Force (N)	Circuitry	Actuator Style	Mounting Type	Stock No.	Price Each
● MC32850	1	50	2	SPST-NO	Button	SMT J-Hook	67P3631	0.29
● MC32852	2	50	2	SPST-NO	Button	SMT J-Hook	67P3633	3.30
● MC32851	3	50	3.2	SPST-NO	...	SMT J-Hook	67P3632	0.30

(147276)

SMT TACTILE SWITCHES

Just Added



- Contact rating: 50mA at 12VDC
- Circuitry: SPST-NO
- Electrical life: 500,000 cycles
- Contact resistance: 100mΩ
- Operating temperature: -25°C to 70°C

Mfg. Part No.	Fig.	Current (mA)	Operating Force (N)	Circuitry	Mounting Type	Stock No.	Price Each
● MC32845	1	50	3.2	SPST-NO	SMT Gull Wing	67P3626	0.33
● MC32847	2	50	2	SPST-NO	SMT J-Hook	67P3628	0.32
● MC32849	3	50	2	SPST-NO	SMT Gull Wing	67P3630	0.33
● MC32844	4	50	2	SPST-NO	SMT Gull Wing	67P3625	0.31

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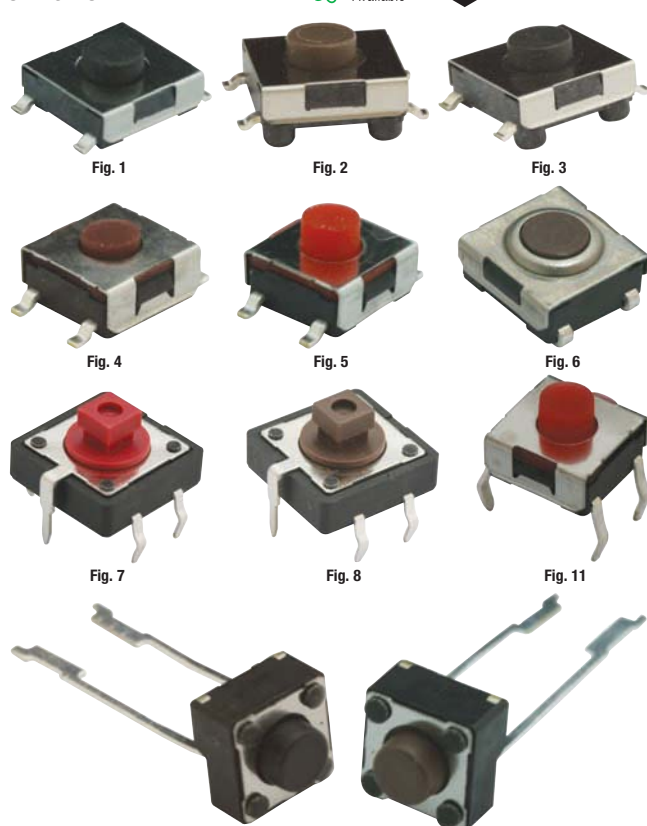
Expert technical support

Chat online to our team of engineers, or connect to them through your representative.

(148838)

PCB TACTILE SWITCHES

Just Added



- Contact rating: 50mA at 12VDC
- Circuitry: SPST-NO
- Electrical life: 100,000 cycles

- Contact resistance: 100mΩ
- Operating temperature: -25°C to 70°C

SMT—4.5mm PITCH

Mfg. Part No.	Fig.	Current (mA)	Operating Force (g)	Circuitry	Actuator Style	Stock No.	Price Each
● MC32884	1	50	150	SPST-NO	Flat Plunger	67P3663	0.33
● MC32882	1	50	100	SPST-NO	Flat Plunger	67P3661	0.33
● MC32885	2	50	150	SPST-NO	Flat Plunger	67P3664	0.36
● MC32883	3	50	100	SPST-NO	Flat Plunger	67P3662	0.36

SMT

● MC32886	4	50	160	SPST-NO	Flat Plunger	67P3665	0.43
● MC32887	4	50	160	SPST-NO	Flat Plunger	67P3666	0.47
● MC32888	5	50	230	SPST-NO	Flat Plunger	67P3667	0.47

J BEND SMT—WASHABLE TYPE

● MC32890	6	50	160	SPST-NO	Flat Plunger	67P3669	0.43
● MC32891	6	50	160	SPST-NO	Flat Plunger	67P3670	0.46

THRU HOLE—GROUND TERMINAL TYPE

● MC32877	7	50	260	SPST-NO	Extended Plunger	67P3656	0.38
● MC32878	8	50	130	SPST-NO	Push Plunger	67P3657	0.72
● MC32876	8	50	130	SPST-NO	Extended Plunger	67P3655	0.38

THRU HOLE—RADIAL TAPING TYPE

● MC32879	9	50	100	SPST-NO	Flat Plunger	67P3658	0.17
● MC32880	9	50	100	SPST-NO	Flat Plunger	67P3659	0.17
● MC32881	10	50	150	SPST-NO	Flat Plunger	67P3660	0.17

THRU HOLE

● MC32892	11	50	230	SPST-NO	Flat Plunger	67P3671	0.46
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SWITCHES – TACTILE

MCTA3 SERIES
TACTILE SWITCHES



Features:

- Stainless steel cover
- Nylon high-temperature thermoplastic
- Silicon rubber seal

Specifications:

- Minimum stroke: 0.15mm
- Operating temperature: -25°C to +70°C
- Electrical life: 200,000 cycles
- Contact resistance: 100mΩ



Just Added

Mfg. Part No.	Current (mA)	Operating Force (g)	Actuator Height (mm)	Mounting Type	Stock No.	Price Each
● MCTA3-1R2-V	1.5	185	4.35	Right Angle PCB	12N2296	1.02
● MCTA3-1R3-V	1.5	260	4.35	Right Angle PCB	12N2297	1.06
● MCTA3-2R2-V	1.5	185	2.8	Right Angle PCB	12N2298	1.06
● MCTA3-2R3-V	1.5	260	2.8	Right Angle PCB	12N2299	1.10
● MCTA3-3R2-V	1.5	185	2.3	Right Angle PCB	12N2300	1.10
● MCTA3-3R3-V	1.5	260	2.3	Right Angle PCB	12N2301	1.14
● MCTA3-4R2-V	1.5	185	4	Right Angle PCB	12N2302	1.14
● MCTA3-4R3-V	1.5	260	4	Right Angle PCB	12N2303	1.19
● MCTAEF-25N-V	25	200	...	SMT	11N5444	0.71
● MCTAEF-25R-V	25	300	...	SMT	11N5445	0.76
● MCTAEF-25S-V	25	450	...	SMT	11N5446	0.81

(121347)

PCB THRU HOLE TACTILE SWITCHES

Just Added



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11



Fig. 12

➔ CONTINUED ➔

PCB THRU HOLE TACTILE SWITCHES (CONT.)



Fig. 13



Fig. 14



Fig. 15



Fig. 16



Fig. 17



Fig. 18



Fig. 19



Fig. 20



Fig. 21



Fig. 22



Fig. 23

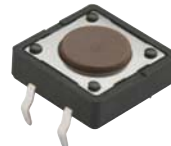


Fig. 24



Fig. 25

- Contact rating: 50mA at 12VDC
- Circuitry: SPST-NO
- Electrical life: 300,000 cycles
- Contact resistance: 100mΩ
- Operating temperature: -25°C to 70°C

DIMENSIONS: 6 x 6mm

Mfg. Part No.	Fig.	Current (mA)	Operating Force (g)	Circuitry	Actuator Style	Stock No.	Price Each
● MC32830	2	50	160	SPST	Flat Plunger	67P3615	0.15
● MC32874	3	50	130	SPST-NO	Extended Plunger	67P3653	0.33
● MC32875	4	50	260	SPST-NO	Extended Plunger	67P3654	0.34
● MC32857	5	50	1.3N	SPST-NO	Button	67P3636	0.16
● MC32865	7	50	100	SPST-NO	Extended Plunger	67P3644	0.22
● MC32867	8	50	100	SPST-NO	Flat Plunger	67P3646	0.23
● MC32838	9	50	160	SPST	Flat Plunger	67P3623	0.17
● MC32869	11	50	150	SPST-NO	Flat Plunger	67P3648	0.23
● MC32862	13	50	100	SPST-NO	Flat Plunger	67P3641	0.21
● MC32833	15	50	160	SPST	Extended Plunger	67P3618	0.14
● MC32836	17	50	160	SPST	Flat Plunger	67P3621	0.18
● MC32829	20	50	160	SPST	Flat Plunger	67P3614	0.14
● MC32832	21	50	160	SPST	Flat Plunger	67P3617	0.14
● MC32831	22	50	160	SPST	Flat Plunger	67P3616	0.16

DIMENSIONS: 6 x 6mm—RIGHT-ANGLE

● MC32835	1	50	160	SPST	Flat Plunger	67P3620	0.16
● MC32866	10	50	150	SPST-NO	Extended Plunger	67P3645	0.22
● MC32870	12	50	100	SPST-NO	Extended Plunger	67P3649	0.25

➔ CONTINUED ➔

SWITCHES – TACTILE • SWITCHES – THUMBWHEEL/PUSHWHEEL

PCB THRU HOLE TACTILE SWITCHES (CONT.)

DIMENSIONS: 6 x 6mm—RIGHT-ANGLE

Mfg. Part No.	Fig.	Current (mA)	Operating Force (g)	Circuitry	Actuator Style	Stock No.	Price Each
● MC32860	13	50	100	SPST-NO	Flat Plunger	67P3639	0.21
● MC32871	16	50	150	SPST-NO	Extended Plunger	67P3650	0.25
● MC32856	18	50	...	SPST-NO	...	67P3635	0.25
● MC32828	20	50	160	SPST	Flat Plunger	67P3613	0.13
● MC32837	23	50	160	SPST	Flat Plunger	67P3622	0.18
● MC32868	25	50	100	SPST-NO	Flat Plunger	67P3647	0.23

DIMENSIONS: 12 x 12mm

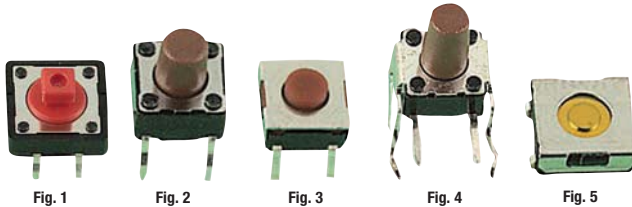
● MC32861	6	50	150	SPST-NO	Flat Plunger	67P3640	0.21
● MC32863	6	50	150	SPST-NO	Flat Plunger	67P3642	0.21
● MC32873	14	50	260	SPST-NO	Flat Plunger	67P3652	0.32
● MC32834	19	50	160	SPST	Flat Plunger	67P3619	0.16
● MC32872	24	50	130	SPST-NO	Flat Plunger	67P3651	0.32

DIMENSIONS: 3.5 x 6mm

● MC32864	6	50	260	SPST	Flat Plunger	67P3643	0.24
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TACTILE SWITCHES



Specifications:

- Current rating: 50mA
- Contact resistance: 100mR max.
- Dielectric strength: 250VAC/1 minute
- Operating temperature: -25°C to +70°C
- Electrical life: 100000 operations min.
- PCB Hole dia.: 1.0 +/- 0.05mm
- Voltage rating: 12VDC min.
- Insulation resistance: 10MR @ 500VDC
- Stop strength: 3kgf 15S
- Wave solder: 260°C max 5S 1.6mm PCB
- Hand solder: 320°C 2S 30W iron

(12MM X 12MM) - PCB DRILLING 12.5MM X 5.0MM

Mfg. Part No.	Fig.	Actuator Style	Operating Force (gf)	Stock No.	Price Each
● MCDTS2-4N	1	Raised	160	26M1119	0.22
● MCDTS2-1N	...	Flat	160	26M1117	0.21
● MCDTS2-4R	1	Raised	260	26M1120	0.23
● MCDTS2-1R	...	Flat	260	26M1118	0.23

(6MM X 6MM) - PCB DRILLING 6.5MM X 4.5MM

Mfg. Part No.	Fig.	Overall Height (mm)	Operating Force (gf)	Stock No.	Price Each
● MCDTS6-1K	2	4.3	100	26M1121	0.13
● MCDTS6-1N	2	4.3	160	26M1122	0.13
● MCDTS6-1R	2	4.3	260	26M1123	0.14
● MCDTS6-2N	2	5	160	80K0985	0.13
● MCDTS6-2R	2	5	260	26M1124	0.14
● MCDTS6-3K	2	7	100	26M1125	0.13
● MCDTS6-3N	2	7	160	26M1126	0.13
● MCDTS6-3R	2	7	260	13M5917	0.15
● MCDTS6-5K	2	9.5	100	26M1127	0.16
● MCDTS6-5N	2	9.5	160	26M1128	0.20
● MCDTS6-5R	2	9.5	260	26M1129	0.17

(6MM X 6MM) WASHABLE - PCB DRILLING 6.5MM X 4.0MM

● MCDTSHW6-9N-B	3	3.8	160	13M5921	0.35
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(6MM X 6MM) RIGHT ANGLED - PCB DRILLING ABOUT C/L OF ACTUATOR 4.5mm & 7.0mm row separation 2.5mm

Mfg. Part No.	Fig.	Overall Length* (mm)	Operating Force (gf)	Stock No.	Price Each
● MCDTSA6-5K	4	8.35	100	80K8276	0.17
● MCDTSA6-5N	4	8.35	160	26M1113	0.17
● MCDTSA6-5R	4	8.35	260	26M1114	0.17
● MCDTSA6-2K	4	3.85	100	26M1110	0.15
● MCDTSA6-2N	4	3.85	160	26M1111	0.15
● MCDTSA6-2R	4	3.85	260	26M1112	0.15

➤ CONTINUED ➤

TACTILE SWITCHES (CONT.)

(6MM X 6MM) SMD WASHABLE

Mfg. Part No.	Fig.	Actuator Style	Operating Force (gf)	Stock No.	Price Each
● MCDTSJW6-8S	5	2.3	160	23M2752	0.37
● MCDTSJW6-6S	5	3.1	160	26M1115	0.37

* Length of switch body and actuator (116606)

CAPS FOR MCDTS2 SERIES



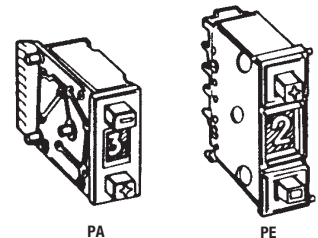
- Round and square caps for use with 12x12 MCDTS2 series of Multicomp tact switches



Mfg. Part No.	Style	Color	Stock No.	Price Each
● KTSC-21G	Square	Green	97K2799	0.09
● KTSC-21Y	Square	Yellow	97K2803	0.09
● KTSC-21B	Square	Blue	97K2798	0.09
● KTSC-21R	Square	Red	97K2802	0.09
● KTSC-21I	Square	Ivory	97K2800	0.09
● KTSC-21K	Square	Black	97K2801	0.09
● KTSC-22S	Round	Orange	97K2808	0.09
● KTSC-22G	Round	Green	97K2805	0.09
● KTSC-22Y	Round	Yellow	97K2809	0.09
● KTSC-22B	Round	Blue	97K2804	0.09
● KTSC-22R	Round	Red	97K2807	0.09
● KTSC-22I	Round	Ivory	97K2806	0.09
● KTSC-22K	Round	Black	96K5828	0.09

(115566)

P SERIES PUSHWHEELS



P series pushwheel switches are rated 100mA @ 50V AC/DC. Contact resistance: 0.1 ohm max. Insulation resistance: 100Mohms. Switches are front mount, snap-in.

PB - 0.238"W x 0.709"H

Mfg. Part No.	Output Code	Pos.	Readout	Stock No.	Price Each
● PBC1-E015*	BCD w/PC Pins	10	0-9	19C9819	11.64 10.36

PE - 0.300"W x 0.945"H

● PEAA-3000	Decimal	10	0-9	19C9798	23.52 20.94
● PECA-3000	BCD	10	0-9	19C9809	22.95 20.43
● PECA-4000†	BCD	10	0-9	19C9818	27.42 24.41
● PEGA-3000	Hexadecimal	16	0-15	19C9812	31.62 28.15
● PEHA-3000	Hexadecimal	16	0-9, A-F	19C9816	31.23 27.80

PA - 0.300"W x 0.591"H

● PABA-3000	Octal	8	0-8	19C9782	22.32 19.87
● PABA-3114	Octal	8	0-8	98B1399	25.47 22.67
● PACA-3000	BCD	10	0-9	19C9780	20.37 18.13
● PACA-3100	BCD	10	0-9	98B1400	20.79 18.51
● PACA-3114	BCD	10	0-9	98B1401	19.44 17.31
● PACA-4000†	BCD	10	0-9	19C9791	24.80 22.07

T-10 - 0.500"W x 1.88"H

● PAEA-3000	BCD Complement	10	0-9	19C9786	31.31 27.87
● PGA-3114	Hexadecimal	16	0-15	98B1403	17.64 15.70

* Not illustrated. † Extended Board for Diodes

ACCESSORIES AND CONNECTORS FOR ASSEMBLY

Mfg. Part No.	Description	Stock No.	Price Each
● 6090797	Housing for PA Switches, 7.62mm	98B2412	1.14 1.02
● 6090803	Spacer for PA Switches, 2.54mm	98B2413	1.23 1.10

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SWITCHES – THUMBWHEEL/PUSHWHEEL

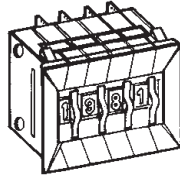
P SERIES PUSHWHEELS (CONT.)

Mfg. Part No.	Description	Stock No.	Price Each	
			1-9	10-49
● 609-0799	Right-End Caps for PA Switches	17B6076	0.80	0.71
● 609-0801	Left-End Caps for PA Switches	17B6077	0.81	0.73
● C2K0-P107	Connector for PA Series BCD/HEX, PC Mount Terminal	88F2678	4.98	4.44
● C2R0-P111	Connector for PE Series BCD/HEX, PC Mount Terminal	85C0363	5.31	4.73
● C2RF-N116	Connector for PE Series BCD/HEX, Solder Lug Terminal	17B5850	5.31	4.73

(5034)

MF SERIES MINIATURE FRONT MOUNT THUMBWHEEL SWITCHES

- MF Series Snap-In Panel Mounts in 1.22"H (30.99) Cutout
- No Mounting Hardware Required
- Available in 10- and 16-Position Codes
- Matte Black with White Legend on Black Wheel
- 1.3"H x 0.312"W (33.02 x 7.92)



Order MCN series connector and MFH series hardware separately ; go online or call.

Mfg. Part No.	Description	Stock No.	Price Each	
			1-24	
● MF-21	10-Position BCD	39F3305	51.60	
● MF-21A	10-Position BCD Extended Board	39F3306	58.97	
● MF-57(0/15)	16-Position BCD Comp. 0-15	28F1649	39.69	
● MF-EP	Pair End Plates	39F3311	20.68	

(2499)

IF SERIES INTERMEDIATE FRONT MOUNT THUMBWHEEL SWITCHES

- Larger Version of MF Series
- Front Mount Switch with Large Digits
- Requires Snap-In Mounts in 1.9" (48.26) High Cutout
- Requires No Mounting Hardware
- 2.125"H x 0.5"W (53.98 x 12.7)



Order ICN series connector and IH series hardware separately; go online or call.

Mfg. Part No.	Description	Stock No.	Price Each	
			1-24	
● IF-21	10-Position BCD	39F3261	58.97	
● IF-21A	10-Position BCD Extended Board	39F3262	65.36	
● IF-EP	Pair End Plates	39F3267	39.32	

(2500)

3 SERIES THUMBWHEEL SWITCHES



- Operate at 50mV to 28VDC or 120VAC
- Operating Temperature Range: -10°C to +65°C
- Rated: 1A Continuous Carry Current, 100mA Maximum Switch Current
- Insulation Resistance: 10^9 Ohms Minimum
- Dielectric Strength: 500Vrms Minimum at Sea Level Between Common Terminal and Any Output

Multisection switches can be made by ordering number of sections desired and accessories such as screws, nuts, endplates, blank sections and connectors. Type numbers indicate individual switch sections. Thumbwheel is matte black with unsealed switch contacts. ABS plastic body and wheel. Rotor contacts: precious metal on copper alloy. Stator contacts: hard gold over nickel over copper on epoxy fiberglass. Order hardware separately. Go online or call.

Mfg. Part No.	Function Code	Mount Style	Stock No.	Price Each		
				1-24	25-99	100-249
● 301109000	Decimal, SP, 10 Position	Snap-In, Front Mount	21F506	9.52	9.17	8.13
● 301119000	Decimal, SP, 10 Position	Rear Mount	21F546	9.52	9.17	8.13
● 301409100	Resistor Decade; 1-2-2-2-2-Code, Resistors Not Supplied.	Front with Diode Provision	21F510	11.52	11.10	9.85

➔ CONTINUED ➔

3 SERIES THUMBWHEEL SWITCHES (CONT.)

Mfg. Part No.	Function Code	Mount Style	Stock No.	Price Each		
				1-24	25-99	100-249
● 302109000	BCD 1-2-4-8; 10 Positions, w/Solder Pin Terminals	Front	21F512	8.47	8.14	7.18
● 302119000		Rear	21F552	8.47	8.14	7.18
● 302109100		Front With Diode Provision	21F513	12.36	11.87	10.48
● 302109300		Front	21F514	13.06	12.54	11.07
● 302119100		Rear With Diode Provision	21F553	10.26	9.85	8.69
● 302119300		Rear	96F1676	14.51	13.94	12.30
● 302309000	Complement of BCD 1-2-4-8; 10 Positions	Front	21F520	9.52	9.17	8.13
● 302319000		Rear	21F560	11.07	9.92	9.06
● 307109000	Binary Coded Hexadecimal; 16 Positions	Front	21F542	19.05	18.36	16.28

SCREWS (2 NEEDED PER ASSEMBLY)

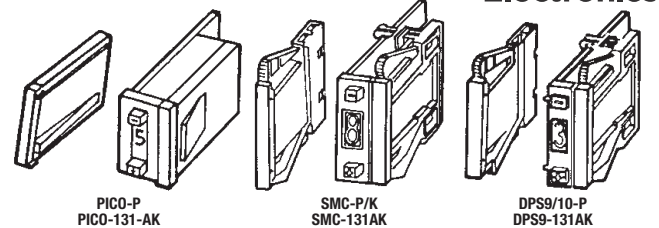
Mfg. Part No.	Number of Sections		Stock No.	Price Each	
	Front Mounting	Rear Mounting		1-24	25-99
● 412701000	3-4	3	21F586	1.86	1.78
● 412702000	5-7	4-6	21F593	1.88	1.80
● 403500000	Nut (2 For Each Assembly)		21F591	0.19	0.19
● 406100652	Nut Driver for 4035 Nut		21F590	6.34	6.08

ACCESSORIES

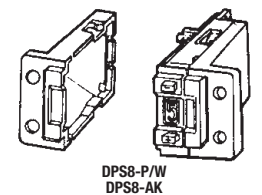
Mfg. Part No.	Description	Stock No.	Price Each	
			1-24	25-99
● 400802000	Rear Mounting, Blank Section (Plain Black)	21F586	1.16	1.11
● 413502000	Front Mounting, Blank Section (Plain)	21F588	1.58	1.51
● 413402000	Front Mounting Endplate	21F589	1.28	1.23
● 402900000	Stop Pins	21F597	0.19	0.19

(4947)

PUSHWHEEL CODE SWITCHES



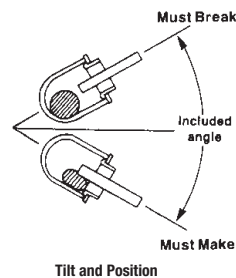
PICO series are sub-mini with 0.130" (3.30) characters, 0.300W" x 0.590H" x 0.950D". (7.62 x 14.99 x 24.13). DPS8 are mini, bi-directional with 0.200" (5.08) characters, 0.314W" x 0.940" x 1.390". (7.98 x 23.88 x 35.31). DPS9 are bi-directional with 0.275" (6.99) characters, 0.315W" x 1.30H" x 1.540" (8.00 x 33.02 x 39.12). SMC are mini, bi-directional with 0.200" (5.08) characters. All have gold-plated contacts rated 0.4VA @ 20VDC. All except DPS8 have snap-in mounting.



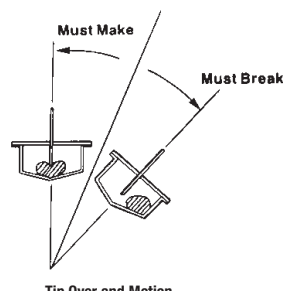
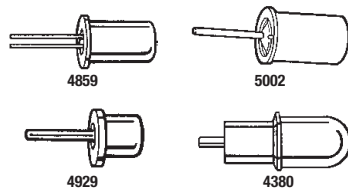
Mfg. Part No.	Description	Wheel Marks	Stock No.	Price Each		
				1-9	10-24	25-49
● PICOD137AK2	BCD Complement	0-9	92F2935	16.22	15.48	14.92
● PICO-P	End Plate, Pair	...	81F695	5.65	5.28	4.92
● DPS8131AK	BCD, 1-2-4-8	0-9	50B6859	18.48	17.63	17.00
● DPS8PW	End Plate Pair	...	06R6439	3.34	3.19	3.08
● DPS9111AK	Decimal (1 of 10)	0-9	81F696	17.70	16.89	16.28
● DPS9-131-AK	BCD, 1-2-4-8	0-9	81F697	20.34	18.48	16.96
● DPS9-SG-902	Hexadecimal (16 pos.)	0-15	81F700	23.11	22.05	21.25
● DPS910P	End Plate, Pair	...	81F702	3.87	3.69	3.56
● DPS10-131-AK	BCD, 1-2-4-8	0-9	77B7621	17.24	16.16	15.20
● SMC-P/K	End Plate, Pair	...	87F1841	3.71	3.36	3.08
● SMCOD-301-AK	Hexadecimal	0-9, A-F	12C0491	26.54	25.32	24.41

(4928)

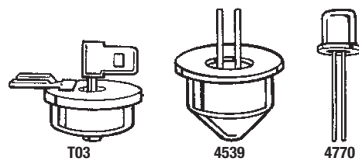
SWITCHES – TILT • SWITCHES – TOGGLE

TILT AND G
FORCE SWITCHES

Tilt and Position



Tip Over and Motion



Tilt and position switches provide long contact life and quiet, dependable performance. Sealed contacts are closed to external contaminants. Self renewing, liquid mercury contacts. **A series** switches "make" when the electrode is tilted below horizontal, and "break" when tilted above horizontal. Angle specifications are dependent on rotation rates and load parameters. **Mfg. part no. 4380** is a wide angle tilt switch that is combined non-insulated A1S and G5 switch. Tip-over switches are specified by the angle of travel away from the vertical required to make or break the contact. The operating angle designed for the installation must be larger than this specification to ensure proper switch application. **Mfg. part no. T03-1015** has 1/4" male quick-connect center electrical mounting terminal. **Mfg. part no. T03-1026** has 1/4" male quick-connect center electrical, 1/4" male 180°. **G Force** switch has a 50 ohm contact resistance.

TILT AND POSITION SWITCHES-NON INSULATED

Mfg. Part No.	Must Make/ Must Break Angle	Current (A@120VDC)	Contact Resist. (MΩ)	Stock No.	Price Each	
					1-2	3-4
4859	2°/+15°	...	150	99F5659	5.10	4.83
5002	Max Included Angle 15°	0.5	80	82H9632	5.10	4.83
4929	-7°/+7°	0.5*	...	82H9627	5.10	4.83
4380	Max Included Angle 35°	7	...	92F2158	9.59	8.84

TILT AND POSITION SWITCHES-INSULATED

Mfg. Part No.	Max. Make/Break Included Angle	Amps @120VAC	Contact Resist. (MΩ)	Stock No.	Price Each	
					1-2	3-4
A1/2-001	15°	0.5	30	95F9636	16.33	15.45
A1-003	15°	0.5	30	93F2796	15.50	14.67
A1/2-001	15°	0.5	30	95F9636	16.33	15.45
G10Z-003	9°	13	3	90B2776	39.32	37.20

TIP OVER AND MOTION SWITCHES

T03-1015	10°/45°	12.5	...	95F9627	7.72	7.37
T03-1026	10°/45°	12.5	...	95F9628	7.72	7.37
20176	10°/35°	1.7	Varies	01C6702	5.36	5.07
4539	25°/72°	1.7	2	82H9622	7.73	7.31
4770	15°/130°	...	20	88F4572	5.33	5.05

*@ 12VDC max.

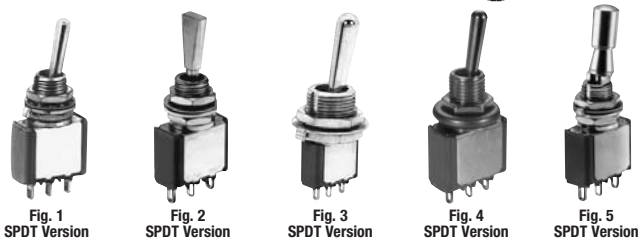
G FORCE SWITCHES

Mfg. Part No.	Circuitry	Max. Switching Voltage (VDC)	Max. Switching Current (uA)	Stock No.	Price Each	
					1-2	3-4
20840	SPST-NO	3.2	10	58M3269	5.07	

HARDWARE MOUNTING CLIPS

Mfg. Part No.	For Use With	Description	Stock No.	Price Each	
				1-2	3-4
0122	A1-001, G10Z-001 A1-002, A1-003, G10Z-003	Single	90B7560	0.89	0.84
2023	A1-001 A1-002 A1-003	Double	93F2797	0.89	0.84
2009	G10Z-001 G10Z-003	Double	97C9807	1.69	1.60

(4007)

5000 SERIES MINIATURE TOGGLE
SWITCHES—PANEL MOUNT

Contact rating: 6A @ 120VAC or 3A @ 250VAC or 4A @ 30VDC. Operating temperature range: -40°C to +85°C. Chrome-plated brass toggle. Silver contacts. Epoxy terminal seal. Mounting hardware included. Single Pole dimensions: .275"W x .519"H x .472"D. Double Pole dimensions: .519"W x .472"H x .472"D.

STANDARD ACTUATOR, 1/4-40" THREADED BUSHING, SOLDER LUG TERMINALS - FIG. 1

Mfg. Part No.	Description	Action	Stock No.	Price Each
5636AB	SPDT	On-None-On	96C7243	5.00
5639AB	SPDT	On-Off-On	96C7248	5.15
5637AB	SPDT	(On)-Off-(On)	96C7247	6.52
5646AB	DPDT	On-None-On	30C9882	6.86
5649AB	DPDT	On-Off-On	96C7257	9.02
5647AB	DPDT	(On)-Off-(On)	96C7256	9.36

FLATTED TOGGLE HANDLE, SOLDER LUG TERMINALS - FIG. 2

5636AB9	SPDT	On-None-On	96C7245	9.02
5639AB9	SPDT	On-Off-On	96C7250	7.19
5646AB9	DPDT	On-None-On	96C7253	12.65
5649AB9	DPDT	On-Off-On	96C7259	13.77

15/32" BUSHING, LONG ROUND HANDLE, SOLDER LUG TERMINALS - FIG. 3

5636MAB	SPDT	On-None-On	89C3345	16.71
5639MAB	SPDT	On-Off-On	89C3363	17.89
5646MAB	DPDT	On-None-On	96C7255	19.41
5649MAB	DPDT	On-Off-On	96C7261	21.14

1/4" SPLASHPROOF BUSHING, STANDARD ROUND HANDLE, SOLDER LUG TERMINALS - FIG. 4

5636AKB	SPDT	On-None-On	96C7246	15.39
5639AKB	SPDT	On-Off-On	96C7251	16.66
5646AKB	DPDT	On-None-On	96C7254	18.67
5649AKB	DPDT	On-Off-On	96C7260	22.48

LOCKING LEVER, SOLDER LUG TERMINALS - FIG. 5

Mfg. Part No.	Description	Action	Positions	Stock No.	Price Each
5636AB-2V	SPDT	On-None-On	2	96C7244	15.54
5639AB-3V	SPDT	On-Off-On	3	96C7249	15.74
5646AB-2V	DPDT	On-None-On	2	96C7252	18.04
5649AB-3V	DPDT	On-Off-On	3	96C7258	15.79

(72929)

600 SERIES INDUSTRIAL
TOGGLE SWITCHES —
12MM BUSHING

Contact rating: 15A @ 120VAC; 10A @ 250VAC; 5A @ 250VDC; 10A, 1/2HP, 125/250VAC. Operating temperature: -20°C to 55°C. Nickel-plated brass or black nylon toggle. Nickel-plated brass bushing. Silver/nickel alloy contacts. Melamine/polyester case. Mounting hardware included. Single Pole dimensions: 0.551"W x 1.161"H x 0.590"D. Double Pole dimensions: 0.846"W x 1.169"H x 0.846"D. Solder lug terminals. UL recognized, CSA certified.



Nickel Bat Toggle

Flat Nylon Toggle

NICKEL BAT TOGGLES

Mfg. Part No.	Circuit	Action	Stock No.	Price Each
631H/2	SPST	On-None-Off	96C7295	7.57
635H/2	SPDT	(On)-None-On	96C7297	10.79
636H/2		On-None-On	90C0882	9.03
637H/2		(On)-Off-(On)	96C7301	9.62
638H/2		On-Off-(On)	96C7303	9.67
639H/2	DPST	On-Off-On	96C7304	9.72
641H/2		On-None-Off	96C7306	12.98
644H/2		On-On-On	96C7308	19.62
645H/2		On-None-On	96C7310	16.44
646H/2	DPDT	On-None-On	96C7312	12.14
647H/2		(On)-Off-(On)	96C7314	16.45
648H/2		On-Off-(On)	96C7316	16.62
649H/2		On-Off-On	96C7318	15.77

➔ CONTINUED ➔

SWITCHES – TOGGLE

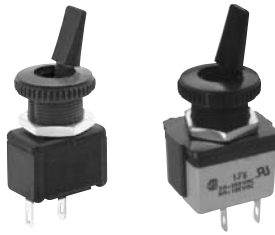
600 SERIES INDUSTRIAL TOGGLE SWITCHES — 12MM BUSHING (CONT.)

FLAT NYLON TOGGLES

Mfg. Part No.	Circuit	Action	Stock No.	Price Each	
				1-24	
● 631NH/2	SPST	On-None-Off	96C7296	7.57	
● 635NH/2	SPDT	(On)-None-On	96C7298	14.16	
● 637NH/2		(On)-Off-(On)	96C7302	10.79	
● 639NH/2		On-Off-On	96C7305	12.07	
● 641NH/2	DPST	On-None-Off	96C7307	10.22	
● 644NH/2	DPDT	On-On-On	96C7309	25.82	
● 645NH/2		(On)-None-On	96C7311	25.82	
● 646NH/2		On-None-On	96C7313	15.47	
● 647NH/2		(On)-Off-(On)	96C7315	17.07	
● 648NH/2		On-Off-(On)	96C7317	18.55	
● 649NH/2		On-Off-On	96C7319	20.38	

(72931)

4600 SERIES INDUSTRIAL TOGGLE SWITCHES



Single Pole

Double Pole

Contact rating: 6A @ 120VAC, 4A @ 250VAC. Operating temperature: -20°C to +55°C. Black nylon toggle and bushing. Silver contacts. Solder/quick-connect terminals. Melamine phenolic case. Includes 1 hex. nut and 1 insulated knurled nut. Dimensions: 0.472W x 0.748H x 0.610"D (SP) or 0.649W x 0.826H x 0.610"D (DP).

Mfg. Part No.	Circuit	Action	Stock No.	Price Each	
				1-24	
● 4631A22UU	SPST	On-None-Off	96C7187	7.00	
● 4636A22UU	SPDT	On-None-On	96C7188	11.66	
● 4639A22UU	SPDT	On-Off-On	96C7189	8.68	
● 4641A22UU	DPST	On-None-Off	27C7511	9.30	
● 4646A22UU	DPDT	On-None-On	96C7190	12.15	
● 4649A22UU	DPDT	On-Off-On	96C7191	12.95	

(72933)

3600 SERIES SEALED TOGGLES FOR OUTDOOR APPLICATIONS

Features:

- Sealed to IP67 standards
- O-ring between lever and bushing
- Half-length boot and nylon washer supplied
- Elastomer gasket between cover and case
- Molded-in terminal inserts
- Solid silver contacts

Specifications:

- Contact rating: 12A at 28VDC; 6A at 250VAC
- 12mm bushing
- Screw or solder lug/quick connect terminals
- On = Maintained action; (On) = Momentary action

Mfg. Part No.	Circuitry	Function	Termination	Stock No.	Price Each	
					1-9	10-24
● 3631NF	SPST	On-Off	Screw	73J3903	16.24	14.54
● 3635NF	SPDT	(On)-On	Screw	73J3905	20.05	17.95
● 3636NF	SPDT	On-On	Screw	73J3906	18.33	16.41
● 3639NF	SPDT	On-Off-On	Screw	73J3911	17.37	15.55
● 3641NF	DPST	On-Off	Screw	73J3913	16.37	14.66
● 3645NF	DPDT	(On)-On	Screw	73J3918	28.15	25.20
● 3646NF	DPDT	On-On	Screw	73J3920	24.49	21.93
● 3649NF	DPDT	On-Off-On	Screw	73J3926	25.08	22.46
● 3631NF/2	SPST	On-Off	Solder Lug	73J3904	15.54	13.91
● 3636NF/2	SPDT	On-Off-On	Solder Lug	73J3907	15.94	14.27
● 3641NF/2	DPST	On-Off	Solder Lug	73J3914	20.16	18.05
● 3646NF/2	DPDT	On-On	Solder Lug	73J3921	22.38	20.04

(90822)

GT SERIES SEALED ULTRAMINIATURE TOGGLE SWITCHES

Just Added

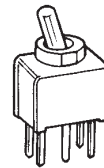


Fig. 1



Fig. 2

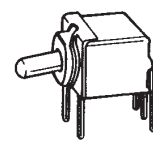


Fig. 3

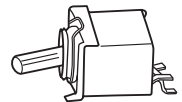


Fig. 4

Withstand machine soldering and cleaning. Rating: 0.4VA max. at 20VAC or DC max. Resistance: below 50 milliohms typ. initial @ 2-4VDC, 100mA. Dielectric strength: 500V_{RMS} min. @ sea level. Operating temperature: -30°C to 85°C. Case and actuator: Gf nylon (UL94V-0) with standard internal O-ring seal. Movable contact: Phosphor bronze with gold plate over nickel plate. Stationary contact: copper alloy with gold plate over nickel plate. Gold terminal plating, epoxy seal. Spacing: 0.100" (2.54) typ. Switch support: brass, tin-plated.

PC TERMINALS — FIG. 1

Mfg. Part No.	Circuitry	Action	Stock No.	Price Each	
				1-24	25-99
● GT12MCBE	SPST	On-None-Off	21J7226	5.89	5.65
● GT11MCBE	SPDT	On-None-On	21J7222	5.37	5.15
● GT21MCBE	DPDT	On-On	21J7231	7.19	6.90

SURFACE MOUNT TERMINALS — FIG. 2

● GT12MSCBE	SPST	On-None-Off	21J7228	7.03	6.77
● GT11MSCBE	SPDT	On-None-On	21J7206	5.83	5.59
● GT21MSCBE	DPDT	On-On	21J7232	8.66	8.34

PC TERMINALS — FIG. 3

● GT11MABE	SPDT	On-None-On	21J7221	6.05	5.80
● GT12MABE	SPST	On-None-Off	21J7225	6.41	6.15
● GT13MABE	SPDT	On-None-On	21J7229	6.87	6.59

SURFACE MOUNT TERMINALS — FIG. 4

● GT12MSABE	SPST	On-None-Off	21J7227	6.29	6.05
● GT11MSABE	SPDT	On-None-On	21J7223	5.92	5.69
● GT13MSABE	SPDT	On-None-On	21J7230	6.77	6.51

(4962)

ET SERIES SEALED SUBMINIATURE TOGGLE SWITCHES

Just Added



Fig. 1



Fig. 2



Fig. 3

- Rating: 0.4VA max. at 20VAC/DC max.
- Operating temperature: -30°C to +85°C

- (On) = Momentary

Withstands machine soldering and cleaning. Actuator: brass, chrome plated with internal O-ring seal. Case and bushing: Gf nylon (UL94V-0). Contact and terminals: copper alloy with gold plate over nickel plate, epoxy seal. Spacing: 0.100" (2.54) typ. Switch support: brass, tin-plated. "M" in mfg. part no. references actuator height of 0.240".

PC TERMINALS - VERTICAL MOUNTING (0.400" ACTUATOR)

Mfg. Part No.	Circuitry	Action	Stock No.	Price Each	
				1-24	25-99
ET01MD1CBE	SPDT	On-None-On	91B8962	7.28	6.98
● ET01SD1CBE	SPDT	On-None-On	96F1565	5.84	5.61
● ET08SD1CBE	SPDT	On-None-On	46F1733	6.66	6.32
● ET08MD1ABE	SPDT	On-None-(On)	96F1571	5.70	5.45
● ET03SD1ABE	SPDT	On-Off-On	96F1566	6.59	6.32
● ET03MD1ABE	SPDT	On-Off-On	96F1569	5.70	5.45
● ET21SD1CBE	DPDT	On-None-On	96F1568	8.78	8.42

PC TERMINALS - RIGHT-ANGLE MOUNTING (FIG. 1)

● ET01MD1ABE	SPDT	On-None-On	94F9151	5.08	4.86
● ET01SD1ABE	SPDT	On-None-On	46F1734	7.75	7.43
● ET03MD1ABE	SPDT	On-Off-On	96F1569	5.70	5.45
● ET08MD1ABE	SPDT	On-None-(On)	96F1571	5.70	5.45
● ET21MD1ABE	DPDT	On-None-On	96F1572	7.76	7.42
● ET23MD1ABE	DPDT	On-Off-On	96F1573	8.72	8.34
● ET23SD1CBE	DPDT	On-Off-On	96F1570	9.95	9.55

PC TERMINALS - VERTICAL RIGHT-ANGLE MOUNTING (FIG. 2)

● ET01MD1AVBE	SPDT	On-None-On	96F1574	6.93	6.63
● ET21MD1AVBE	DPDT	On-None-On	96F1577	10.33	9.88

PC TERMINALS W/SUPPORT BRACKET

● ET01MD1V3BE	SPDT	On-None-On	98F4174	5.08	4.86
● ET21MD1V3BE	DPDT	On-None-On	96F1580	9.99	9.55
● ET03MD1V3BE	SPDT	On-Off-On	96F1579	7.33	7.01
● ET08MD1V3BE	SPDT	On-None-(On)	08C6309	7.33	7.01

➤ CONTINUED ➤

SWITCHES – TOGGLE

ET SERIES SEALED SUBMINIATURE TOGGLE SWITCHES (CONT.)

Mfg. Part No.	Circuitry	Action	Stock No.	Price Each	
				1-24	25-99
Gold contacts. Epoxy seal.					
● ET01M3D1SAPE*	SPDT	On-None-On	87K6509	6.74	6.46
● ET01MD1SAPE	SPDT	On-None-On	84K9957	6.58	6.31
ET05MD1SAKE	SPDT	(On)-Off-(On)	96F1599	7.29	6.99
ET03MD1SAKE	SPDT	On-Off-On	96F1598	5.86	5.62
ET07MD1SAKE	SPDT	On-Off-(On)	96F1600	5.86	5.62

*Antistatic version, plastic 0.240" high actuator (4963)

C&K T SERIES TINY TOGGLE SWITCHES

Just Added

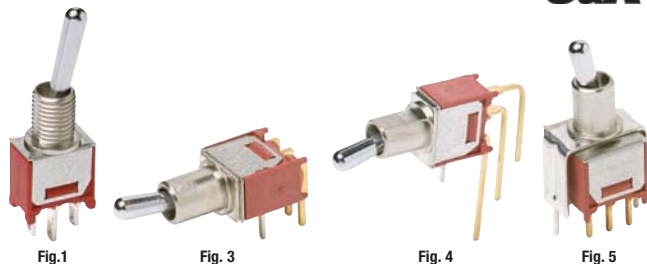


Fig. 1, 2: Types with On-None-On function rated 3A @ 120VAC or 28VDC; all others rated 2A @ 120VAC or 28VDC, UL. Operating temperature: -30°C to +85°C. End contact: coin silver, silver plated. Center contact and terminals: copper alloy, silver-plated, epoxy seal. Hardware: nut, locking ring, lock washer. Panel mounting: all (excluding Fig. 5): 0.195" (4.95) dia. hole. Fig. 3, 4, 5: rating: 0.4VA max. @ 20VAC or DC max. Contacts and terminals: copper alloy, gold-over-nickel plated, epoxy seal. Actuator: brass, chrome plated. Bushing: brass, nickel-plated. Housing: stainless steel. Case: diallyl phthalate or gf nylon (UL 94V-0). Switch support: brass, tin-plated. 0.100" pin spacing.

SOLDER TERMINALS-FIG. 1

Mfg. Part No.	Circuit	Action	Stock No.	Price Each	
				1-24	25-99
● T101SHZQE	SPDT	On-None-On	21F598	5.28	5.08
● T102SHZQE	SPDT	On-None-Off	08C8529	6.57	6.31
● T103SHZQE	SPDT	On-Off-On	21F599	6.31	6.07
● T105SHZQE	SPDT	(On)-Off-(On)	96F1759	6.44	6.17
● T107SHZQE	SPDT	On-Off-(On)	96F1760	6.99	6.70
● T108SHZQE	SPDT	On-None-(On)	21F600	6.85	6.59
● T201SHZQE	DPDT	On-None-On	21F601	8.29	7.98
● T203SHZQE	DPDT	On-Off-On	37H0833	9.53	9.13
● T211SHZQE	DPDT	On-On-On	81F961	10.68	10.23

PC TERMINALS-FIG. 2

● T101SHCQE	SPDT	On-None-On	46F1718	5.27	5.05
● T102SHCQE	SPDT	On-None-Off	99F3446	5.29	5.10
● T103SHCQE	SPDT	On-Off-On	46F1719	6.32	6.06
● T201SHCQE	DPDT	On-None-On	46F1720	8.19	7.84

RIGHT-ANGLE MOUNTING PC TERMINALS-FIG. 3

● T101MH9ABE	SPDT	On-None-On	21F610	5.85	5.61
● T103MH9ABE	SPDT	On-Off-On	21F611	6.92	6.64
● T201MH9ABE	DPDT	On-None-On	21F613	9.20	8.82

VERTICAL RIGHT-ANGLE MOUNTING PC TERMINALS-FIG. 4

● T101MH9AVBE	SPDT	On-None-On	21F616	6.07	5.82
● T201MH9AVBE	DPDT	On-None-On	21F619	9.52	9.13

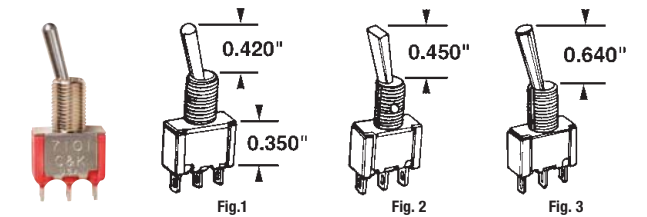
SUPPORT BRACKET-FIG. 5

● T101MH9V3BE	SPDT	On-None-On	21F622	5.81	5.57
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(4933)

C&K 7000 SERIES PANEL MOUNT TOGGLE SWITCHES

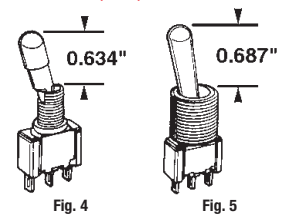
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C&K 7000 SERIES PANEL MOUNT TOGGLE SWITCHES (CONT.)

- Rating: 5A @ 120VAC or 28VDC; 2A @ 250VAC
- Operating temperature: -30°C to +85°C



Actuator: brass, chrome-plated. Bushing: brass or zinc, nickel-plated. Housing: stainless steel. Case: UL 94V-0. End contacts: coin silver, silver-plated. Center contact and all terminals: copper alloy, silver-plated, epoxy seal. Hardware: nuts, locking ring, lock washer. Panel mounting: all (excluding Fig. 5): 0.250" (6.35) dia. hole; Fig. 5: 0.469" (11.91) dia. hole. NOTE: (On) in table indicates momentary action.

SPDT—STANDARD ROUND TOGGLE - (FIG. 1)

Mfg. Part No.	Action	Stock No.	Price Each		
			1-24	25-99	100-249
● 7101SYZQE	On-None-On	21F650	4.85	4.65	3.61
● 7103SYZQE	On-Off-On	21F651	5.46	5.23	4.06
● 7103TZQE	On-Off-On	79K2879	7.99	7.64	5.87
● 7201SYW4QE	On-None-On	09C6961	8.46	8.10	6.29

DPDT—STANDARD ROUND TOGGLE - (FIG. 1)

● 7201SYZQE	On-None-On	21F655	5.94	5.72	5.50
● 7203SYZQE	On-Off-On	21F656	6.79	6.54	6.29
● 7205SYZQE	(On)-Off-(On)	21F657	8.00	7.67	5.95
● 7207P3YZQ-E	On-Off-(On)	42K8141	10.40	9.95	7.71
● 7215SYZQE	(On)-On-(On)	21F662	9.32	8.93	6.93

3PDT—STANDARD ROUND TOGGLE - (FIG. 1)

● 7301SYZQE	On-None-On	21F663	12.16	11.65	9.04
● 7303SYZQE	On-Off-On	21F664	12.01	11.34	10.39

SPDT—FLATTED TOGGLE - (FIG. 2)

● 7101P3YZQE	On-None-On	21F684	6.71	6.42	4.98
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DPDT—FLATTED TOGGLE - (FIG. 2)

● 7201P3YZQE	On-None-On	21F689	9.06	8.67	6.72
● 7203P3YZQE	On-Off-On	21F690	8.65	8.17	7.49
● 7205P3YZQE	(On)-Off-(On)	21F691	8.65	8.17	7.49

SPDT—LOCKING LEVER, 0.732" HIGH - (FIG. 3)

● 7101K12ZQE	On-None-On	09C4830	6.81	6.43	5.90
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DPDT—LONG ROUND TOGGLE - (FIG. 3)

● 7201L1YZQE	On-None-On	21F732	6.53	6.16	5.65
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DPDT—LOCKING TOGGLE - (FIG. 4)

● 7201K2ZQE	On-None-On	21F699	9.61	9.21	7.13
● 7203K2ZQE	On-Off-On	21F700	9.75	9.21	8.44

DPDT—LARGE ROUND TOGGLE - (FIG. 5)

● 7201TZQE	On-None-On	21F721	9.66	9.24	7.09
● 7203TZQE	On-Off-On	21F722	9.24	8.72	7.99

3PDT—LARGE ROUND TOGGLE - (FIG. 5)

● 7301TZQE	On-None-On	21F723	13.11	12.37	11.34
● 7303TZQE	On-Off-On	21F724	12.28	11.16	9.40

ACCESSORIES FOR SERIES 7000

Mfg. Part No.	Description	Stock No.	Price Each
			1-24
● 895101201	Nickel-Plated Dress-Nut, Dia. 0.770"	94B9507	0.92
● 896801000	Polyethylene Toggle Cap, White, 0.383" (9.73) Long	39C3259	0.60
● 896802000	Polyethylene Toggle Cap, Black, 0.383" (9.73) Long	93B6563	0.60

18PC MINI TOGGLE SWITCH AND CAP KITS

Mfg. Part No.	Kit Contents	Stock No.	Price Each
			1-24
KCK-7T	(2) 896801000: White Toggle Switch Cap, 0.383" high (2) 896802000: Black Toggle Switch Cap, 0.383" high (2) 896803000: Red Toggle Switch Cap, 0.383" high (4) 7101SYZQE: Mini Toggle Switch, SPDT, On-On, 0.410" Actuator, 0.350" Bushing (2) 7103SYZQE: Mini Toggle Switch, SPDT, On-Off-On, 0.410" Actuator, 0.350" Bushing (2) 7105SYZQE: Mini Toggle Switch, SPDT, On-Off-(On), 0.410" Actuator, 0.350" Bushing (3) 7201SYZQE: Mini Toggle Switch, DPDT, On-On, 0.410" Actuator, 0.350" Bushing (1) 7301SYZQE: Mini Toggle Switch, 3PDT, On-On, 0.410" Actuator, 0.350" Bushing	08N3536	96.69

(4938)

SWITCHES – TOGGLE

C&K 7000 SERIES PC MOUNT TOGGLE SWITCHES

Just Added



Fig. 1

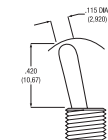


Fig. 2

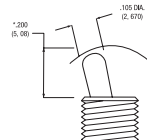


Fig. 3

- "D" in mfg. part no. indicates .280" high keyway bushing
- "Y" in mfg. part no. indicates .350" high keyway bushing
- "CW" in mfg. part no. indicates splashproof bushing
- "B" in mfg. part no.: rating 0.4VA max. at 20VAC or DC max. Contacts and terminals: copper alloy, with gold plate over nickel plate, epoxy seal.
- "Q" in mfg. part no.: rating 5A at 120VAC or 28VDC; 2A at 250VAC. End contacts; coin silver, silver plated. Center contact and terminal: copper alloy, silver-plated, epoxy seal.
- Hardware: nuts, locking ring, lock washer
- Operating temperature: -30°C to 85°C
- Actuator: Brass, chrome plated
- Bushing: Brass or zinc, nickel-plated
- Housing: Stainless steel. Case: UL 94V-0



Actuator Style "S"



Actuator Style "M"

Mfg. Part No.	Fig.	Circuitry	Action	Termination	Actuator Style	Stock No.	Price Each	
							1-24	25-99
7105P3YCQE	1	SPDT	(On)-Off-(On)	PC Thru-hole	P	09C5917	7.41	7.11
7105TCWZQE	...	SPDT	(On)-Off-(On)	Solder Lug	T	09C6020	9.03	8.67
7109SYZQE	...	SPDT	On-(On)	Solder Lug	S	95B3944	6.12	5.88
7101K2CQE	1	SPDT	On-None-On	PC Thru-hole	K	99F4102	7.72	7.41
7101MDCQE	1	SPDT	On-None-On	PC Thru-hole	M	09C4948	5.16	4.95
7101SD9CQE	1	SPDT	On-None-On	PC Thru-hole	S	93B9142	5.16	4.95
7101SYCQE	1	SPDT	On-None-On	PC Thru-hole	S	46F1827	5.16	4.95
7101SYCBE	1	SPDT	On-None-On	PC Thru-hole	S	21F674	5.11	4.91
7101MD9ABE	2	SPDT	On-None-On	Right-angle PC Thru-hole	M	21F798	5.05	4.82
7101MD9AGE	2	SPDT	On-None-On	Right-angle PC Thru-hole	M	09C4964	5.94	5.71
7101K2ZGE	...	SPDT	On-None-On	Solder Lug	K	50B1759	8.01	7.69
7101P3YZBE	...	SPDT	On-None-On	Solder Lug	P	97B2692	6.45	6.19
7101SH3ZQE	...	SPDT	On-None-On	Solder Lug	S	09C5254	6.24	5.99
7101SYZGE	...	SPDT	On-None-On	Solder Lug	S	94F9199	5.45	5.23
7101MD9V3QE	1	SPDT	On-None-On	V-Bracket	M	91B7491	5.96	5.72
7101MD9AV2BE	3	SPDT	On-None-On	Vertical Right-angle PC Thru-hole	M	46F1823	5.25	5.01
7107SYCQE	1	SPDT	On-Off-(On)	PC Thru-hole	S	46F1829	6.08	5.84
7103SYCQE	1	SPDT	On-Off-On	PC Thru-hole	S	46F1441	5.79	5.56
7103SD9ABE	2	SPDT	On-Off-On	Right-angle PC Thru-hole	S	09C5584	6.24	5.99
7103SYZBE	...	SPDT	On-Off-On	Solder Lug	S	09C5637	5.75	5.52
7103MD9AV2BE	3	SPDT	On-Off-On	Vertical Right-angle PC Thru-hole	M	46F1824	5.82	5.56
7205SYCQE	1	DPDT	(On)-Off-(On)	PC Thru-hole	S	46F1820	8.50	8.16
7208MD9AV2BE	3	DPDT	On-None-(On)	Vertical Right-angle PC Thru-hole	M	46F1818	9.01	8.61
7201K2CQE	1	DPDT	On-None-On	PC Thru-hole	K	98F3543	10.02	9.62
7201SYCQE	1	DPDT	On-None-On	PC Thru-hole	S	46F1831	7.31	7.01
7201MD9AQE	2	DPDT	On-None-On	Right-angle PC Thru-hole	M	09C6725	8.20	7.87
7201MD9ABE	2	DPDT	On-On	Right-angle PC Thru-hole	M	21F803	7.48	7.15
7201MDZQE	...	DPDT	On-None-On	Solder Lug	M	07C7564	7.30	7.00
7201P3YZBE	...	DPDT	On-None-On	Solder Lug	P	09C6821	8.75	8.39
7201SYZGE	...	DPDT	On-None-On	Solder Lug	S	09C6962	7.87	7.56
7201TCWZQE	...	DPDT	On-None-On	Solder Lug	T	09C6988	10.35	9.93
7201MD9V3BE	1	DPDT	On-None-On	V-Bracket	M	90F2194	7.68	7.34
7201MD9AV2BE	3	DPDT	On-None-On	Vertical Right-angle PC Thru-hole	M	46F1815	7.87	7.52
7203SYCQE	1	DPDT	On-Off-On	PC Thru-hole	S	46F1819	8.33	7.99
7211MD9ABE	2	DPDT	On-On-On	Right-angle PC Thru-hole	M	97B8280	10.04	9.63
7401SYCQE	1	4PDT	On-None-On	PC Thru-hole	S	50B9330	17.89	17.17
7301SYCQE	1	3PDT	On-None-On	PC Thru-hole	S	99F5769	12.92	12.40

▶ CONTINUED ▶

C&K 7000 SERIES PC MOUNT TOGGLE SWITCHES (CONT.)

Mfg. Part No.	Fig.	Circuitry	Action	Termination	Actuator Style	Stock No.	Price Each	
							1-24	25-99
7301MD9ABE	2	3PDT	On-None-On	Right-angle PC Thru-hole	M	09C7940	14.20	13.63
7301P3YZQE	...	3PDT	On-None-On	Solder Lug	P	94F2333	14.00	13.44

(4939)

C&K E SERIES SEALED TOGGLE SWITCHES



Fig. 1

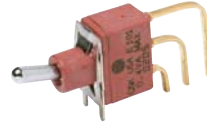


Fig. 2



Fig. 3

- Rating: 0.4VA Max. at 20VAC/DC Max.
- Operating Temperature: -30°C to +85°C
- (On) = Momentary

Withstands machine soldering and cleaning. Actuator: brass, chrome-plated with internal O-ring seal. Case and bushing: gf nylon (UL94V-0). Contacts and terminals: copper alloy with gold plate over nickel plate, epoxy seal. Spacing: .185" (4.70) typ. Switch support: brass or steel, tin-plated.

PC TERMINALS — FIG. 1

Mfg. Part No.	Circuitry	Action	Stock No.	Price Each	
				1-24	25-99
E101SD1CBE	SPDT	On-None-On	46F1794	5.32	5.11
E103SD1CBE	SPDT	On-Off-On	46F1795	6.37	6.11
E105SD1CBE	SPDT	(On)-Off-(On)	46F1796	6.37	6.11
E201SD1CBE	DPDT	On-None-On	46F1786	8.27	7.93
E301SD1CBE	3PDT	On-None-On	96F1581	13.58	13.03

PC TERMINALS - VERTICAL RIGHT-ANGLE MOUNTING — FIG. 2

Mfg. Part No.	Circuitry	Action	Stock No.	Price Each	
				1-24	25-99
E101MD1AV2BE	SPDT	On-None-On	46F1772	6.41	6.13
E201MD1AV2BE	DPDT	On-On	46F1775	9.85	9.42
E203MD1AV2BE	DPDT	On-Off-On	46F1776	10.97	10.49
E201MD1AV2BE	DPDT	On-On	46F1775	9.85	9.42
E301MD1AV2BE	3PDT	On-None-On	96F1588	15.53	14.85

PC TERMINALS - SUPPORT BRACKET — FIG. 3

Mfg. Part No.	Circuitry	Action	Stock No.	Price Each	
				1-24	25-99
E101MD1V3BE	SPDT	On-None-On	46F1648	6.73	6.43
E103MD1V3BE	SPDT	On-Off-On	46F1649	7.83	7.48
E105MD1V3BE	SPDT	(On)-Off-(On)	46F1650	7.83	7.48

(4961)

C&K MIL-S-83731 QPL TOGGLE SWITCHES

Qualified to QPL MIL-S-83731/09, 10. Rating: 5A @ 28VDC, 125VAC resistive load; 2A @ 28VDC, 125VAC inductive load; 1A @ 28VDC, 125VAC lamp load; 0.5VA max. @ 28VAC or 28VDC. Case: diallyl phthalate (DAP) (UL 94V-0). Actuator: brass, chrome-plated. Bushing: brass, nickel-plated. All feature sealed solder terminals. Supplied with internal actuator seal. PC, right-angle and vertical right-angle terminals are available; go online or call.



Mfg. Part No.	Circuit	Action	Stock No.	Price Each	
				1-24	25-99
M83731/9-211	SPDT	On/Off/On	92F5089	7.77	7.49
M83731/9-231	SPDT	On/None/On	92F5090	8.50	8.19
M83731/9-311	SPDT	On/Off/(On)	92F5093	10.74	10.37
M83731/10-231	DPDT	On/None/On	92F5096	9.92	9.55

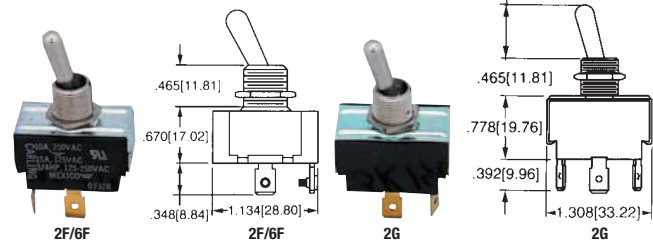
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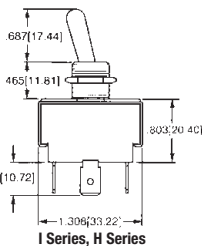
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HEAVY-DUTY AC
RATED TOGGLE
SWITCHES

General-purpose switches rated 15A @ 125VAC/28VDC, 10A @ 250VAC. All feature bat style toggle with 0.688" (17.48) toggle length and 0.465" (11.81) bushing length. Mounting hole: 0.500" (12.70). 6F and 6G Series are momentary action. UL recognized, CSA certified.



SPST

Mfg. Part No.	Switch Action	Terminals	Stock No.	Price Each		
				1-9	10-24	25-49
● 2FA53-73	On-None-Off	Solder	73K1399	4.78	3.68	2.64
● 2FA53-73-TABS	On-None-Off	Spade	73K1400	4.78	3.68	2.64
● 2FB53-73	On-None-On	Solder	73K1402	5.88	4.52	3.24
● 2FB53-73-TABS	On-None-On	Spade	73K1403	5.88	4.52	3.24
● 2FB54-73	On-None-On	Screw	73K1404	6.91	5.32	3.81
● 2FC53-73	On-Off-On	Solder	73K1405	5.88	4.52	3.24
● 2FC53-73-TABS	On-Off-On	Spade	73K1406	5.88	4.52	3.24
● 2FC54-73	On-Off-On	Screw	73K1407	6.91	5.32	3.81
● 6FC54-73	(On)-Off-(On)	Screw	73K1473	9.63	7.41	5.31

DPST

● 2GK50-73	On-None-Off	Solder	73K1408	7.57	5.82	4.18
● 2GK51-73	On-None-Off	Spade	73K1409	7.57	5.82	4.18
● 2GK54-73	On-None-Off	Screw	73K1410	8.96	6.89	4.94

DPDT

● 2GL50-73	On-None-On	Solder	73K1411	9.04	6.95	4.99
● 2GL51-73	On-None-On	Spade	73K1412	9.04	6.95	4.99
● 2GL54-73	On-None-On	Screw	73K1413	11.12	8.55	6.13
● 2GM50-73	On-Off-On	Solder	86K9805	9.04	6.95	4.99
● 2GM51-73	On-Off-On	Spade	73K1414	9.04	6.95	4.99
● 2GM54-73	On-Off-On	Screw	73K2473	11.12	8.55	6.13

3PST

● HK254-73	On-None-Off	Screw	74K2460	16.45	12.65	9.07
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3PDT

● HL250-73	On-None-On	Solder	73K0987	17.07	13.12	9.41
● HL251-73	On-None-On	Spade	73K0988	17.07	13.12	9.41
● HL254-73	On-None-On	Screw	73K0989	20.44	15.71	11.26
● HM251-73	On-Off-On	Spade	73K0990	17.07	13.12	9.41
● HM254-73	On-Off-On	Screw	73K0991	20.44	15.71	11.26

4PST

● IK251-73	On-None-Off	Spade	74K2462	19.04	14.64	14.64
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4PDT

● IL250-73	On-None-On	Solder	73K0994	23.26	17.88	12.82
● IL251-73	On-None-On	Spade	73K0995	23.26	17.88	12.82
● IL254-73	On-None-On	Screw	73K0996	27.95	21.49	15.40
● IM251-73	On-Off-On	Spade	80K5897	23.26	17.88	12.82
● IM254-73	On-Off-On	Screw	73K0997	27.95	21.49	15.40

(5119)

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NYLON TOGGLE
SWITCHES

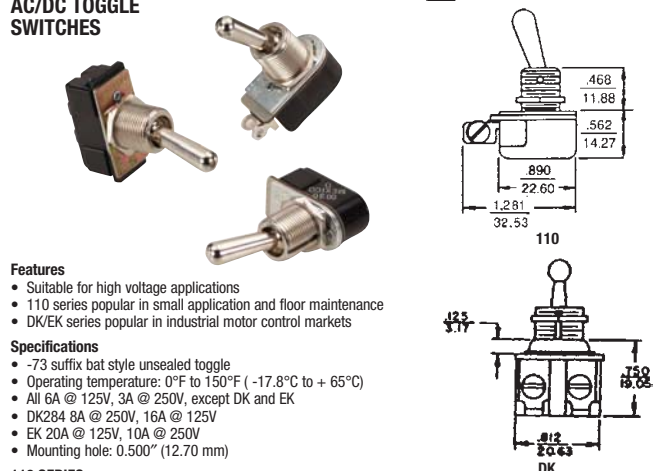
SPST PADDLE TOGGLE ACTUATOR SWITCHES

Mfg. Part No.	Current* (A)	Function	Terminals	Stock No.	Price Each		
					1-49	50-99	100-249
● DA100-PB-B	5	On-None-Off	Solder	73K0924	2.55	2.00	1.74
● DA105-PB-B	5	On-None-Off	Wire	74K2457	4.19	3.28	2.86
● DA220-PB-B	10	On-None-Off	Solder	93K6417	11.01	9.42	7.89
● DA225-PB-B	10	On-None-Off	Wire	01C5641	14.40	12.32	10.32
● DB100-PB-B	5	On-None-On	Solder	73K0925	3.48	2.73	2.38
● DB220-PB-B	10	On-None-On	Solder	57K9591	10.62	9.09	7.61
● DB225-PB-B	10	On-None-On	Wire	93K6419	7.61	6.51	5.45
● DC100-PB-B	5	On-Off-On	Solder	73K0926	7.25	5.68	4.95
● DC220-PB-B	10	On-Off-On	Solder	94C1117	12.62	10.80	9.04

SPST BAT TOGGLE ACTUATOR SWITCH

● DA100-BB-B	5	On-None-Off	Solder	74K2456	2.67	2.09	1.83
● DA220-BB-B	10	On-None-Off	Solder	74K2389	11.02	9.43	7.90
● DA225-BB-B	10	On-None-Off	Wire	93K6418	16.48	14.11	11.81

* Rated at 250VAC
(S120)

GENERAL-
PURPOSE
AC/DC TOGGLE
SWITCHES

110 SERIES

Mfg. Part No.	Circuitry	Switch Function	Terminals	Stock No.	Price Each		
					1-9	10-24	25-49
● 110-73	SPST	On-None-Off	Lugs (End)	73K4048	7.57	5.88	4.17
● 110-S-73	SPST	On-None-Off	Screw	73K1392	10.11	7.85	5.57
		On-None-Off	Wire Leads				

DK / EK / EA SERIES

● DK284-73	DPST	On-None-Off	Screw	73K0927	14.65	11.38	8.06
● EK204-73	DPST	On-None-Off	Screw	73K0928	21.89	17.00	12.05
● EA204-73	SPST	On-None-Off	Screw	24C4612	44.54	34.58	24.51

(5121)

SWITCHES – TOGGLE

G SERIES TOGGLE SWITCHES

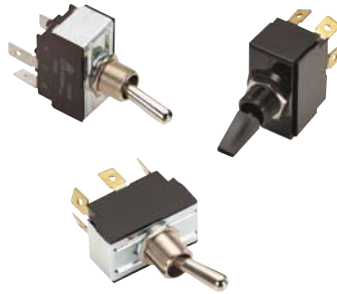


Features:

- Easy to integrate into a variety of applications
- Also appropriate for low voltage DC applications

Specifications:

- 10A at 250VAC; 15A at 125VAC; ¾ HP at 125-250VAC
- Operating temperature: 32°F to 185°F (0° to 85°C)
- Bat actuator styles listed
- Paddle actuator style also available; go online or call.



Mfg. Part No.	Circuitry	Function	Termination	Stock No.	Price Each	
					1-4	5-9
● 6GA5M-73	SPST	On-None-(Off)	.250" QC	96K4204	16.71	14.13
● 6GA5B-73	SPDT	(On)-None-Off	.250" QC	73K1474	8.84	6.80
● 6GL5B-73	DPST	On-None-(On)	.250" QC	96K4205	16.52	13.97
● 6GM5M-73	DPDT	(On)-Off-(On)	.250" QC	96K4207	29.26	24.73

(88958)

XT SERIES TOGGLE SWITCHES

Just Added



Features:

- High standard horsepower rating
- Industry standard 0.480" diameter mounting hole
- For use with: Household appliances, industrial machinery, medical equipment, rail systems, and lab equipment

Specifications:

- Contact rating: 20A at 125VAC; 10A at 277VAC
- Contact resistance: 50
- Operating temperature: 0°C ~ 65°C
- UL recognized component for Canada (cUR marked): File E2702



Mfg. Part No.	Circuitry	Action	Termination	Stock No.	Price Each	
					1-24	25-49
● XTD1A1A2	SPST	On-Off	Quick Connect	06P9769	2.57	2.11
● XTD1A2A2	SPST	On-Off	Screw	06P9770	2.93	2.40
● XTD1A3A2	SPST	On-Off	Solder Lug	06P9771	2.57	2.11
● XTD1F1A2	SPST	Off-(On)	Quick Connect	06P9772	4.45	3.65
● XTD1F2A2	SPST	Off-(On)	Screw	06P9773	4.84	3.96
● XTD1F3A2	SPST	Off-(On)	Solder Lug	06P9774	4.45	3.65
● XTD2B1A	SPDT	On-Off-On	Quick Connect	06P9775	3.15	2.58
● XTD2B2A	SPDT	On-Off-On	Screw	06P9776	3.69	3.03
● XTD2B3A	SPDT	On-Off-On	Solder Lug	06P9777	3.15	2.58
● XTD2C1A	SPDT	On-On	Quick Connect	06P9778	3.15	2.58
● XTD2C2A	SPDT	On-On	Screw	06P9779	3.69	3.03
● XTD2C3A	SPDT	On-On	Solder Lug	06P9780	3.15	2.58
● XTD2D1A	SPDT	On-(On)	Quick Connect	06P9781	4.67	3.83
● XTD2D2A	SPDT	On-(On)	Screw	06P9782	5.12	4.20
● XTD2D3A	SPDT	On-(On)	Solder Lug	06P9783	4.67	3.83
● XTD2E1A	SPDT	(On)-Off-(On)	Quick Connect	06P9784	4.67	3.83
● XTD2E2A	SPDT	(On)-Off-(On)	Screw	06P9785	4.36	3.57
● XTD2E3A	SPDT	(On)-Off-(On)	Solder Lug	06P9786	4.67	3.83
● XTD2G1A	SPDT	On-Off-(On)	Quick Connect	06P9787	4.67	3.83
● XTD2G2A	SPDT	On-Off-(On)	Screw	06P9788	5.12	4.20
● XTD2G3A	SPDT	On-Off-(On)	Solder Lug	06P9789	4.67	3.83

(133298)

ECONOSWITCH SEALED TOGGLE SWITCHES

- Current Ratings (Maintained): 20A Res., 15A Ind.
- 5A Lamp Load @ 28VDC
- 18A, 1/2hp @ 125VAC
- 9A, 1hp @ 250VAC; Circuits Only
- Temperature Range: -50°F to +150°F

Environmentally-sealed; positive detent action provides good tactile feedback. Choice of screw or 0.25" spade terminals. 1/32"-32 threaded bushing, with 0.076" keyway slot. Can be used with switch guards on page 1808.

SCREW TERMINALS (SPDT)



Series 8530

Series 8531

➔ CONTINUED ➔

ECONOSWITCH SEALED TOGGLE SWITCHES (CONT.)

Mfg. Part No.	Switch Action	Stock No.	Price Each		
			1-14	15-24	25-49
8530K1	On-Off-On	50F1564	17.66	16.46	15.17
8530K2	(On)-Off-(On)	50F1565	17.06	15.90	14.66
8530K4	On-None-On	50F1566	17.66	16.46	15.17

SCREW TERMINALS (SPST)

8530K9	On-None-Off	50F1567	17.06	15.90	14.66
8530K11	Off-None-(On)	95F4253	17.66	16.46	15.17

SCREW TERMINALS (DPDT)

8531K1	On-Off-On	50F1568	24.83	23.14	21.33
8531K2	(On)-Off-(On)	50F1569	24.83	23.14	21.33
8531K4	On-None-On	50F1570	24.83	23.14	21.33

SCREW TERMINALS (DPST)

8531K9	On-None-Off	50F1571	24.83	23.14	21.33
8531K11	Off-None-(On)	95F4258	23.37	21.78	20.08

SPADE TERMINALS (SPDT)

8530K31	On-Off-On	95F4254	18.61	17.34	15.99
8530K32	(On)-Off-(On)	95F4255	17.66	16.46	15.17
8530K34	On-None-On	95F4256	17.25	16.08	14.82

SPADE TERMINALS (SPST)

8530K39	On-None-Off	95F4257	17.66	16.46	15.17
8530K311	Off-None-(On)	95F9233	17.88	16.67	15.37

SPADE TERMINALS (DPDT)

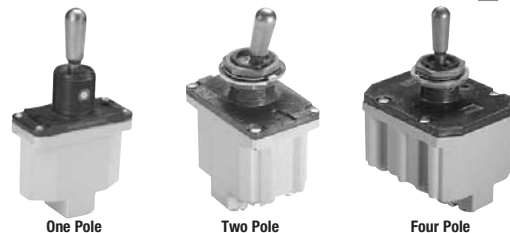
8531K31	On-Off-On	95F4259	25.16	23.45	21.62
8531K32	(On)-Off-(On)	95F4260	24.83	23.14	21.33
8531K34	On-None-On	95F4261	24.83	23.14	21.33

SPADE TERMINALS (DPST)

8531K39	On-None-Off	95F4262	26.17	24.39	22.48
8531K311	Off-None-(On)	95F4263	25.12	23.41	21.58

(4878)

8500 SERIES MIL-S-3950 SEALED SWITCHES



One Pole

Two Pole

Four Pole

- Current Ratings (Maintained): 20A Res., 15A Ind.
- 5A Lamp Load 28VDC
- 18A, 1/4hp @ 125VAC
- 9A, 1/2hp @ 250VAC
- Temperature Range: -85°F to 160°F

Offer highest degree of environmental seal. Fine silver stationary contacts provide lower level current performance. Silver-plated cadmium oxide moveable contacts for improved higher current performance. Screw terminals. 1/32"-32 threaded bushing, with 0.076" keyway slot. Self-extinguishing base material. Can use w/ switch guards on page 1808.

ONE POLE

Mfg. Part No.	MIL-SPEC	Action	Stock No.	Price Each		
				1-14	15-24	25-49
8500K1	24523-21	On-Off-On	23F1077	23.44	21.88	20.20
8500K9	24523-22	On-None-Off	23F1078	22.62	21.11	19.50
8500K4	24523-23	On-None-On	23F1079	22.62	21.11	19.50
8500K2	24523-27	(On)-Off-(On)	23F1081	23.44	21.88	20.20
8500K11	24523-30	Off-None-(On)	23F1082	14.20	13.25	12.24

TWO POLE

8501K1	24524-21	On-Off-On	23F1083	31.46	29.36	27.12
8501K9	24524-22	On-None-Off	23F1084	31.46	29.36	27.12
8501K4	24524-23	On-None-On	23F1085	31.46	29.36	27.12
8501K5	24524-26	On-None-(On)	23F1087	31.46	29.36	27.12
8501K2	24524-27	(On)-Off-(On)	23F1088	31.46	29.36	27.12
8501K3	24524-31	On-Off-(On)	23F1089	33.12	30.91	28.55

FOUR POLE

8502K1	24525-21	On-Off-On	23F1091	53.20	49.65	45.85
8502K4	24525-23	On-None-On	23F1093	50.53	47.16	43.55

(4904)

SWITCHES – TOGGLE

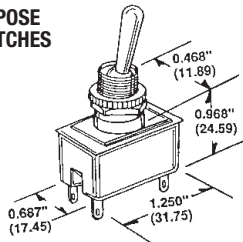
8928 SERIES GENERAL PURPOSE
AC/DC TOGGLE POWER SWITCHES

Features:

- Quick-Make/Quick-Break Switches
- Bronze silver-plated contacts

Specifications:

- 6A at 125VAC/VDC; 3A at 250VDC
- Bushing Length: 0.468"
- Diameter: 15/32" (0.468)



EATON

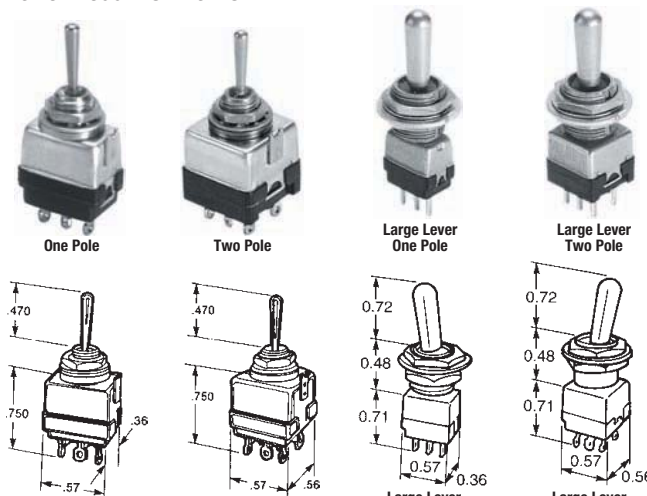


Mfg. Part No.	Circuitry	Function	Termination	Actuator	Stock No.	Price Each	
						1-9	10-24
● 8928K479	SPDT	On-On	Screw	Bat Lever	11M1864	15.87	14.40
● 8928K481	DPST	(On)-Off	Screw	Bat Lever	11M1865	30.07	27.27

(4855)

MIL-S-8834 MINIATURE POSITIVE
ACTION TOGGLE SWITCHES

EATON



- Ratings: 25mA @ 5mV or Less
- 5A @ 28VDC
- 2A @ 115VAC/60Hz

- 3A @ 115VAC/400Hz
- Temperature Range: -67°F to +160°F

Feature nontearable mechanisms enclosed in nylon-filled molding and stainless steel housing. Useful for true dry circuit applications. Small lever types offer 1/4" -40 thread. Large lever types offer 15/32" thread.

ONE POLE

Mfg. Part No.	MIL-SPEC	Action	Stock No.	Price Each		
				1-9	10-24	25+
8866K1	24655-211	On-Off-On	23F327	106.99	95.64	87.21
8866K7	24655-221	On-None-Off	23F330	35.99	32.17	29.34
8866K4	24655-231	On-None-On	23F329	116.86	104.46	95.26

TWO POLE

8867K4	24656-231	On-None-On	23F333	137.42	122.84	112.02
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LARGE LEVER ONE POLE

8868K2	MS90310-271	(On)-Off-(On)	23F782	87.52	78.24	71.34
8868K4	MS90310-231	On-None-On	23F784	34.89	31.19	28.44

LARGE LEVER TWO POLE

8869K2	MS90311-271	(On)-Off-(On)	23F789	133.56	119.39	108.87
8869K4	MS90311-231	On-None-On	23F791	77.95	69.68	63.54

(4906)

SWITCH GUARDS FOR TOGGLE SWITCHES

EATON



Fig. 1

Fig. 2

Fig. 3

Fig. 4

MIL-G-7703 approved. Fig. 1 flush mount; Fig. 4 flush or one-hole mount; Figs. 3 and 4 one-hole mount. Switch positions refer to type of switch accommodated. All guards red phenolic except Fig. 4 black metal. Fig. 1 returns switch to OFF position. Fig. 2 permits operation from first position to center on 3 position switches. Fig. 3 returns switch to center position. Fig. 4 permits locking toggle in extreme up position.

Mfg. Part No.	Position	Fig.	MIL-SPEC	Stock No.	Price Each
8497K2	2	2	MS25224-2	41F675	14.64
8497K7	2	1	N/A	94F4652	20.86

➔ CONTINUED ➔

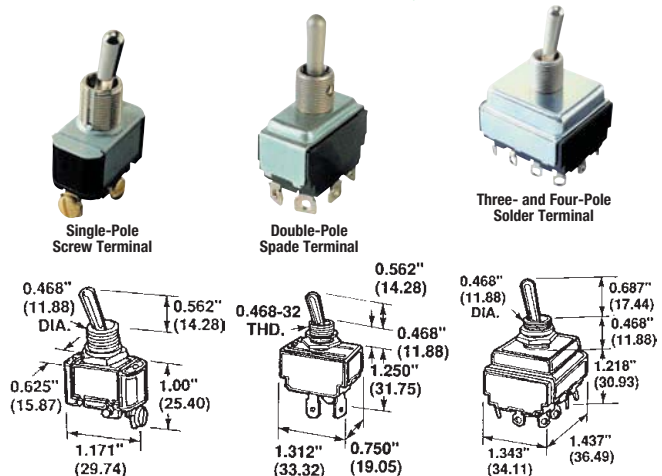
SWITCH GUARDS FOR TOGGLE SWITCHES (CONT.)

Mfg. Part No.	Position	Fig.	MIL-SPEC	Stock No.	Price Each
8495K1	2 or 3	4	MS25221-1	41F676	15.48
8496K2	3	3	MS25223-2	41F677	13.41
8497K1	2	1	MS25224-1	23F145	14.54
8497K3	2	1	MS25224-3	41F678	14.64
8498K1*	3	1	MS25225-1	97F9067	30.07
8492K1	2 or 3	4	MS24417-1	23F140	6.42

*Returns from "up" to "center" position. Will not change toggle position when "down".
(4907)

GENERAL-PURPOSE AC
RATED TOGGLE SWITCHES

EATON



AC toggle switches are ideal for power applications. All are one hole mount. One hexagon locknut and one knurled facenut included. Bushing length: 0.469" (11.91). Toggle guards available; on this page. UL recognized, CSA certified.

SPST

Mfg. Part No.	Action	Rating	Term.	Stock No.	Price Each	
					1-24	25+
● 7500K14	On-None-Off	15A, 125VAC	Screw	04M4763	4.37	3.69
● 7501K13	On-None-Off	10A, 250VAC	Solder	04M4764	4.28	3.61
● 7501K15	On-None-Off	3/4HP, 250VAC	Spade	04M4765	3.90	3.29
● 7546K36	On-None-Off	20A, 125VAC	Screw	91B1818	7.35	6.20
● 7546K38	On-None-Off	10A, 250VAC	Solder	93C9541	6.23	5.26
● 7546K40	On-None-Off	1/2HP, 125VAC	Spade	20M2952	6.76	5.71
● 7580K4	On-None-Off	6A, 125VAC	Screw	10M8503	4.72	3.99
● 7580K7*	On-None-Off	6A, 250VAC	Solder	11M1797	4.31	3.64
● 7580K6	On-None-Off		Solder	17M8463	4.31	3.64

SPDT

● 7582K4	On-None-On	6A, 125VAC 3A, 250VAC	Screw	04M4779	5.73	4.83
● 7582K6	On-None-On		Solder	04M4780	5.02	4.24
● 7581K4	On-Off-On		Screw	10M5078	5.73	4.83
● 7581K6	On-Off-On		Solder	05M4602	5.02	4.24
● 7504K4	On-None-On	15A, 125VAC 10A, 250VAC	Screw	04M4767	6.58	5.56
● 7505K4	On-None-On		Solder	04M4768	5.55	4.69
● 7502K13	On-Off-On		Screw	04M4766	6.58	5.56
● 7503K13	On-Off-On	1/2HP, 125VAC	Solder	04M6771	5.55	4.69
● 7509K5	(On)-Off-(On)	10A, 250VAC 1/2HP, 250VAC	Screw	04M4769	9.00	7.60

DPST

● 7560K5	On-None-Off	15A, 125VAC	Screw	04M4770	8.59	7.25
● 7561K4	On-None-Off	10A, 250VAC	Solder	04M4771	7.32	6.18
● 7561K6	On-None-Off	3/4HP, 250VAC	Spade	04M4772	6.23	5.26
● 7630K36	On-None-Off	20A, 125VAC	Screw	12C0408	12.01	10.14
● 7630K38	On-None-Off	10A, 250VAC	Solder	11M1798	9.74	8.22
● 7630K40	On-None-Off	3/4HP, 250VAC	Spade	11M1799	9.12	7.70
● 7590K4	On-None-Off	6A, 125VAC	Screw	04M4781	7.70	6.50
● 7590K6	On-None-Off	3A, 250VAC 2A, 277VAC 2.5A, L @ 125VAC	Solder	04M4782	6.67	5.63

DPDT

● 7564K6	On-None-On	15A, 125VAC 10A, 250VAC	Screw	04M4776	9.74	8.22
● 7565K5	On-None-On		Solder	04M4777	7.97	6.73
● 7565K7	On-None-On		Spade	04M4778	8.59	7.25
● 7562K4	On-Off-On	3/4HP, 125-250VAC	Screw	04M4773	10.57	8.92
● 7563K4	On-Off-On		Solder	04M4774	8.59	7.25
● 7563K6	On-Off-On		Spade	04M4775	7.97	6.73

➔ CONTINUED ➔

SWITCHES – TOGGLE

GENERAL-PURPOSE AC RATED TOGGLE SWITCHES (CONT.)

DPDT

Mfg. Part No.	Action	Rating	Term.	Stock No.	Price Each	
					1-24	25+
● 7632K36	On-None-On	20A, 125VAC	Screw	20M2968	14.19	11.98
● 7632K38	On-None-On	10A, 250VAC	Solder	20M2969	11.35	9.58
● 7632K40	On-None-On	3/4HP, 250VAC 1/2HP, 125VAC	Spade	94C8847	12.25	10.34
● 7592K4	On-None-On	6A, 125VAC	Screw	04M4785	9.12	7.70
● 7592K6	On-None-On	3A, 250VAC	Solder	04M4786	6.91	5.83
● 7591K4	On-Off-On	2.5A, L @ 125VAC	Screw	04M4783	9.74	8.22
● 7591K6	On-Off-On		Solder	04M4784	7.32	6.18

3PST

● 7700K1	On-None-Off	15A, 125VAC	Solder	11M1802	14.28	12.06
● 7700K2	On-None-Off	10A, 250VAC	Screw	12M6718	16.55	13.97
● 7700K3	On-None-Off	3/4HP, 250VAC 1HP, 2PH 125-600VAC 1HP 1 & 2PH 125-400VAC	Spade	11M1803	14.28	12.06

3PDT

● 7701K1	On-Off-On	15A, 125VAC	Solder	11M1804	17.62	14.87
● 7701K2	On-Off-On	10A, 250VAC	Screw	21M3303	21.10	17.81
● 7701K3	On-Off-On	3/4HP, 250VAC 1HP, 3PH	Spade	11M1805	17.62	14.87
● 7702K1	On-None-On	125-600VAC	Solder	11M1806	17.62	14.87
● 7702K2	On-None-On	1HP 1 & 2PH	Screw	11M1807	21.13	17.83
● 7702K3	On-None-On	125-480VAC	Spade	11M1808	17.62	14.87

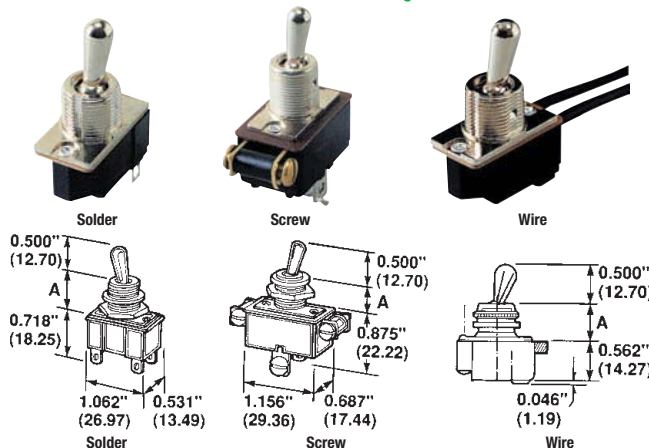
4PST

● 7690K8	On-None-Off	15A, 125VAC	Screw	11M1800	19.65	16.59
● 7691K14	On-None-Off	10A, 250VAC 3/4HP, 250VAC	Solder	11M1801	17.79	15.02

4PDT

● 7692K13	On-Off-On	15A, 125VAC	Screw	04M4787	24.55	20.72
● 7693K2	On-Off-On	10A, 250VAC	Solder	04M4788	21.57	18.21
● 7694K4	On-None-On	3/4HP, 250VAC	Screw	04M4789	24.55	20.72
● 7695K5	On-None-On		Solder	04M4790	21.57	18.21

*Bushing length is 0.344" (8.74)
(4852)

GENERAL-PURPOSE
AC/DC TOGGLE SWITCHES

- Quick-Make, Quick-Break Contact Mechanism
- Non-Teasable, Self-Cleaning, Wiping Contact Action
- Threaded Bushing: 0.468"-32

One-hole mounting. Solder lug terminal. Wire leads: 18-gauge, 6" (152.4), stripped 0.750" (19.05). Hardware included. UL recognized, CSA certified.

SPST ON-NONE-OFF

Mfg. Part No.	Amps 125VAC-DC	Amps 250VDC	Dim. "A" Bushing Length	Term.	Stock No.	Price Each	
						1-24	25+
● 8280K115	...	3A	0.344"	Solder	04M4797	7.36	6.27
● 8280K116	...	3A	0.469"	Solder	04M4798	7.36	6.27
● 8290K115	...	3A	0.344"	Wire	04M4799	8.30	7.07
● 8290K116	...	3A	0.469"	Wire	04M4800	8.78	7.48
● 8295K107	...	3A	0.344"	Screw	04M4801	8.74	7.44
● 8381K107	6A	3A	0.344"	Solder	04M4806	7.59	6.47
● 8381K108	6A	3A	0.469"	Solder	04M4807	6.99	5.96
● 8391K107	6A	3A	0.344"	Wire	04M4808	7.59	6.47
● 8391K108	6A	3A	0.469"	Wire	04M4809	8.89	7.58

➔ CONTINUED ➔

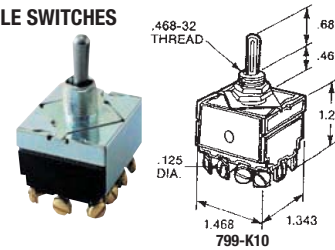
GENERAL-PURPOSE AC/DC TOGGLE SWITCHES (CONT.)

Mfg. Part No.	Amps 125VAC-DC	Amps 250VDC	Dim. "A" Bushing Length	Term.	Stock No.	Price Each	
						1-24	25+
● 8396K107	6A	3A	0.344"	Screw	04M4810	9.86	8.40
● 8396K108	6A	3A	0.469"	Screw	04M4811	9.18	7.82
SPDT ON-NONE-ON							
● 8282K113	3A	1A	0.344"	Solder	10M6580	9.66	8.23
● 8282K114	3A	1A	0.469"	Solder	11M1848	9.43	8.04
DPST ON-NONE-OFF							
● 8370K107	7A	3A	0.469"	Solder	04M4802	12.24	10.43
● 8372K107	7A	3A	0.469"	Screw	04M4803	16.31	13.89
DPDT ON-NONE-ON							
● 8373K107	6A	3A	0.469"	Solder	04M4804	15.34	13.07
● 8375K107	6A	3A	0.469"	Screw	04M4805	19.66	16.75

(4853)

HESITATION TOGGLE SWITCHES

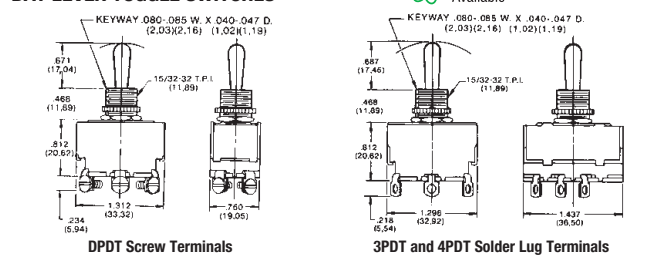
- Slow-Make, Slow-Break Butt-Action Contact Mechanism
- Designed for AC and Low-Voltage DC Applications
- Contact Ratings: 125VAC or 28VDC @ 15A or 250VAC @ 10A



Units feature interlock mechanism that prevents operation of lever through center position until pressure momentarily relieved. Hardware included. UL recognized. CSA certified.

Mfg. Part No.	Action	Stock No.	Price Each		
			1-14	15-24	25+
● 7992K10	DPDT On-Off-On	11M1832	30.74	27.10	23.78
● 7991K10	3PDT On-Off-On	11M1831	37.00	32.62	28.62
● 7990K10	4PDT On-Off-On	11M1830	47.53	41.90	36.77

(4854)

GENERAL PURPOSE AC-ONLY
BAT LEVER TOGGLE SWITCHES

DPDT Screw Terminals

3PDT and 4PDT Solder Lug Terminals

- 7800 and 7801 series: Rated 6A, 125VAC; 3A, 250VAC; 1/2 Horsepower, 120-240VAC
- 7803 series: Rated 20A, 125VAC; 10A, 250VAC; 1HP, 120-240VAC
- 7804 series: Rated 20A, 125VAC; 10A, 250VAC; 1HP, 120VAC
- 7805 series: Rated 10A, 250VAC; 20A, 125VAC; 1HP, 120-240VAC

UL recognized, CSA certified. Types ending with suffix K32 are not CSA certified.

7800/7801 SERIES

Mfg. Part No.	Circuit	Action	Terminal	Stock No.	Price Each		
					1-24	25-49	50+
● 7800K11	SPST	On-None-Off	Solder	11M1809	5.02	4.32	3.81
● 7801K11	DPST	On-None-Off	Solder	46F1864	6.45	5.54	4.89

7803 SERIES

● 7803K31	DPST	On-None-Off	Screw	11M1813	9.04	7.77	6.85
● 7803K11	DPST	On-None-Off	Solder	11M1810	7.61	6.55	5.77
● 7803K33	DPDT	On-None-On	Screw	11M1815	11.12	9.56	8.43
● 7803K13	DPDT	On-None-On	Solder	11M1812	9.04	7.77	6.85
● 7803K32	DPDT	On-Off-On	Screw	11M1814	11.12	9.56	8.43
● 7803K12	DPDT	On-Off-On	Solder	11M1811	6.27	5.39	4.76

7804 SERIES

● 7804K31	3PST	On-None-Off	Screw	11M1819	18.56	15.95	14.07
● 7804K32	3PDT	On-Off-On	Screw	11M1820	23.43	20.14	17.76
● 7804K12†	3PDT	On-Off-On	Solder	11M1817	21.09	18.13	15.99
● 7804K33	3PDT	On-None-On	Screw	11M1821	26.91	23.13	20.39
● 7804K13†	3PDT	On-None-On	Solder	11M1818	22.41	19.26	16.98

7805 SERIES

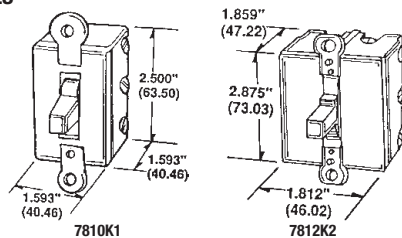
● 7805K12	4PDT	On-Off-On	Solder	11M1822	25.85	22.23	19.60
● 7805K13	4PDT	On-None-On	Solder	11M1823	25.65	22.05	19.44

†Also rated 1HP, 240-480VAC or 2 phase; and 1HP, 240-600VAC 3 phase.
(4859)

SWITCHES – TOGGLE

EXTRA HEAVY-DUTY
SCREW TERMINAL AC/DC
TOGGLE POWER SWITCHES

- Quick-Make/Quick-Break
- Mfg. Part No. 7810K1 Rated:
20A @ 125VAC/VDC; 10A @
250VAC/VDC
- Mfg. Part No. 7812K2 Rated:
30A @ 125VAC/VDC; 20A @
250VAC/VDC



UL recognized.

Mfg. Part No.	Circuit	Action	Stock No.	Price Each	
				1-4	5-9
● 7810K1	DPDT	On-On	46F1865	156.07	139.84
● 7812K2	3PDT	On-Off-On	46F8145	273.07	244.68

(4858)

AC/DC TOGGLE
POWER SWITCHES

- Quick-Make/Quick-Break Wiping Action
- Maintained
- Operating Temperature Range:
0°F to +150°F



Switches are all UL recognized, CSA certified except type 8980K14 (UL recognized only). DPST circuit, Off-On action. Mfg. part no. 8980K5 is 30A @ 250VAC/VDC; 20A @ 600VAC/VDC. Mfg. part no. 8980K1 is 60A @ 250VAC/VDC; 2HP @ 125-250VAC/VDC. Mfg. part no. 8980K14 is 30A @ 250VAC/VDC; 2HP @ 120-240VAC; 1HP @ 480VAC.

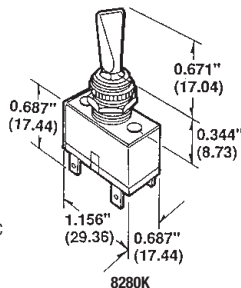
SQUARE LEVER TYPES

Mfg. Part No.	Mounting	Terminal	Stock No.	Price Each	
				1-9	10-24
● 8980K5	Panel Type Strap	Screw	23F017	46.74	43.31
● 8980K1	...	Bus	46F1871	71.75	66.48
● 8980K14	Panel Type Strap (binding screws assembled)	Screw	46F1867	53.00	49.11

(4857)

DESIGNER LINE GENERAL-
PURPOSE AC/DC RATED
TOGGLE SWITCHES

- Quick-Make, Quick-Break Contact Mechanism With Nontearable, Self Cleaning, Wiping Contact Action
- All Switches Listed Are Rated 6A @ 125VAC/DC, 3A @ 250VDC, Except type 8282K, Which is Rated 3A @ 125VAC/DC @ 250VDC
- 8280K Series Has No Rating @ 125VAC/DC
- Threaded Black Bushing: 0.468" -32
- Solder Lug Terminals



Come with "C" style lever. Units are one-hole mounting and are UL recognized, CSA certified. Thermoplastic lever and black mounting hardware included. On/off plates and hardware available for designer line switches; contact your Newark representative for pricing.

SPST ON-NONE-OFF

Mfg. Part No.	Lever Color	Stock No.	Price Each		
			1-49	50-99	100+
● 8280K127C	Black	41F463	5.62	5.18	4.83
● 8381K121C	White	23F450	5.54	5.11	4.77
● 8381K122C	Red	23F451	5.49	5.06	4.72
● 8381K127C	Black	23F454	5.76	5.31	4.95

SPDT ON-NONE-ON

● 8282K127C	Black	23F469	6.99	6.45	6.01
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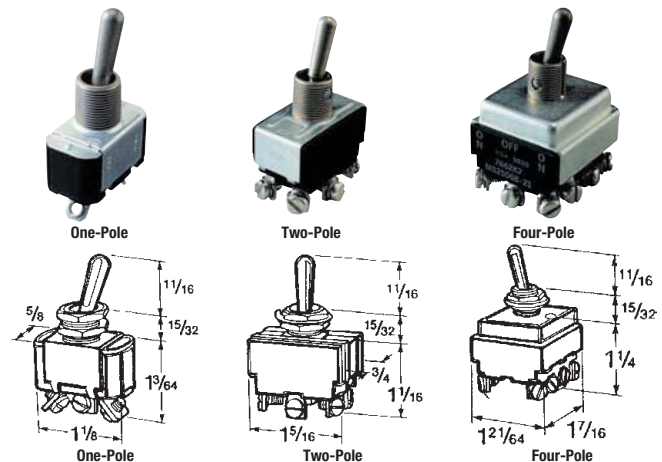
DPST ON-NONE-OFF

● 8370K122C	Red	23F481	9.56	8.82	8.22
● 8370K127C	Black	23F484	9.56	8.82	8.22

DPDT ON-NONE-ON

● 8373K121C	White	23F501	14.77	13.62	12.70
● 8373K122C	Red	23F502	10.79	9.95	9.28
● 8373K127C	Black	23F505	11.08	10.22	9.53

(4875)

7600, 8800 SERIES MIL-S-83731
STANDARD SWITCHES WITH LEVER SEAL

- Bushing: 1/32-32 Thread
- Rated: 20A @ 28VDC and 10A @ 115VAC
- Keyway: 0.035" (0.889)D by 0.068" (1.73)W

Silicone rubber lever seal stops contaminants. Hot tin-dipped #6-32 screw terminals facilitate soldering when used as lug. Phenolic and metal housing. Meet Military Specification. MIL-S-83731. (On) = Momentary action; On = Maintained action.

ONE-POLE

Mfg. Part No.	Action	Stock No.	Price Each		
			1-14	15-24	25+
8800K16	On-Off-On	23F307	23.49	21.28	19.61
● 8801K22	On-None-Off	20M3079	19.74	17.89	16.48
● 8810K15	On-None-On	23F306	23.84	21.60	19.90
● 8801K23	On-Off-None	11M1858	21.28	19.28	17.76
● 8812K14	(On)-Off-(On)	11M1860	25.11	22.75	20.96
● 8811K17	Off-None-(On)	11M1859	22.88	20.73	19.10

TWO-POLE

● 8820K16	On-Off-On	11M1861	32.93	29.84	27.49
● 8822K20	On-None-Off	11M1862	28.79	26.08	24.02
● 8824K14	On-None-On	11M1863	31.98	28.97	26.69
8830K13	On-None-(On)	41F646	39.82	36.08	33.24
● 8834K5	(On)-Off-(On)	95M4920	41.31	37.43	34.48
8832K6	On-Off-(On)	23F318	39.32	35.62	32.82

FOUR-POLE

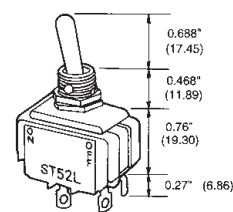
● 7662K7	On-Off-On	20M2973	64.85	58.76	54.13
● 7664K5	On-None-On	23F319	64.85	58.76	54.13

(4905)

AC RATED, HEAVY-DUTY,
MILITARY TOGGLE SWITCHES

- Bushing Length: 0.468" (11.89)
- Lever Length: 0.688" (17.45)

Heavy-duty general purpose switches conform to military (Jan-S-23 equivalents) information. Units featured have solder lug terminals. Screw terminals available; go online or call for information.



Mfg. Part No.	Circuitry	Action	Termination	Stock No.	Price Each	
					1-24	25-49
● 7300K38	SPST	On-None-Off	Solder Lug	11M1789	15.88	14.13
● 7310K36	DPST	On-None-Off	Screw	11M1790	26.70	23.76
● 7311K38	DPDT	On-Off-On	Solder Lug	11M1792	27.36	24.34
● 7312K38	DPDT	On-None-On	Solder Lug	11M1793	25.45	22.64

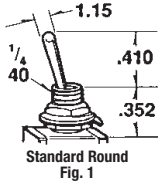
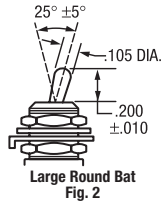
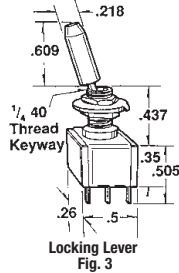
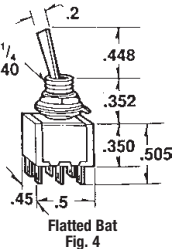
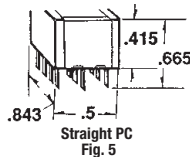
(4988)

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(14881)

SWITCHES – TOGGLE

A SERIES
MINIATURE
TOGGLE
SWITCHESStandard Round
Fig. 1Large Round Bat
Fig. 2Locking Lever
Fig. 3Flatted Bat
Fig. 4Straight PC
Fig. 5

- Contacts Rated 6A @ 125VAC, 3A @ 250VAC (UL Recognized, CSA Certified) or 6A @ 28VDC Resistive

Contacts are coin silver. Base (body): 1- and 2-pole are dialyl phthalate; 3- and 4-pole are high-strength phenolic. Lever is brass, chrome-plated. () denotes momentary action.

SPST, SOLDER LUG

Mfg. Part No.	Figure	Action	Stock No.	Price Each		
				1-24	25-49	50-99
● A121S1YZQ	1	On-Off-On	06M4427	8.15	7.40	6.47
● A123S1YZQ	1	On-None-On	65F1651	6.99	6.34	5.55
● A127S1YZQ	1	(On)-Off-(On)	06M4441	7.96	7.22	6.32
● A131S1YZQ	1	On-Off-(On)	65F1654	7.96	7.22	6.32
● A127T1KZQ	2	(On)-Off-(On)	94C4681	13.00	11.80	10.32
● A121K12KZQ	3	On-Off-On	06M4425	16.69	15.14	13.25
● A123K12KZQ	3	On-None-On	06M4430	13.97	12.68	11.09
● A123P32YZQ	4	On-None-On	06M4433	11.45	10.39	9.09
● A121P32YZQ	4	On-Off-On	06M4426	12.42	11.27	9.86
● A127P32YZQ	4	(On)-Off-(On)	94C4678	13.97	12.68	11.09

DPDT, SOLDER LUG

● A221S1YZQ	1	On-Off-On	65F1656	11.26	10.21	8.94
● A223S1YZQ	1	On-None-On	65F1657	9.70	8.80	7.70
● A226S1YZQ	1	On-None-(On)	06M4450	12.42	11.27	9.86
● A227S1YZQ	1	(On)-Off-(On)	65F1659	11.45	10.39	9.09
● A232S1YZQ	1	On-On-On	06M4451	12.42	11.27	9.86
● A221K12KZQ	3	On-Off-On	06M4443	22.31	20.24	17.71
● A223K12KZQ	3	On-None-On	65F1732	17.46	15.84	13.86
● A221P32YZQ	4	On-Off-On	06M4444	18.05	16.37	14.33
● A223P32YZQ	4	On-None-On	06M4447	16.88	15.32	13.40

3PST, SOLDER LUG

● A321S1YZQ	1	On-Off-On	65F1662	22.12	20.07	17.56
● A323S1YZQ	1	On-None-On	06M4452	18.05	16.37	14.33
● A327S1YZQ	1	(On)-Off-(On)	06M4453	22.12	20.07	17.56

4PDT, SOLDER LUG

● A432S1YZQ	1	On-On-On	89C3329	26.00	23.59	20.64
● A421S1YZQ	1	On-Off-On	06M4454	25.61	23.24	20.33

SPDT, PCB TERMINAL OPTIONS

● A121S1YQ	5	On-Off-On	65F1681	8.15	7.40	6.47
● A123S1YQ	5	On-None-On	06M4435	7.38	6.69	5.86
● A127S1YQ	5	(On)-Off-(On)	65F1684	7.96	7.22	6.32

DPDT, PCB TERMINAL

● A223S1YQ	5	On-None-On	06M4449	10.29	9.33	8.17
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3PST, PCB TERMINAL

● A323S1YQ	5	On-None-On	65F1694	22.12	20.07	17.56
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4PDT, PCB TERMINAL

● A423S1YQ	5	On-None-On	65F1699	24.84	22.53	19.72
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(4851)

MINIATURE
TOGGLE SWITCHES

Fig. 1



Fig. 2



Fig. 3

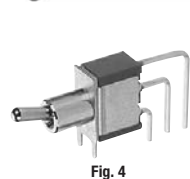


Fig. 4

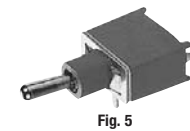


Fig. 5

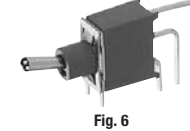


Fig. 6

- Suffix QE in Mfg. Part No.: Silver Contacts Rated for 5A @ 125VAC, 3A @ 250VAC, Epoxy Sealed
- Suffix RE in Mfg. Part No.: Gold Contacts Rated for 0.4A @ 20V Max (AC or DC), Epoxy Sealed
- Actuator: Brass, Chrome Plated
- Operating Temperature Range: -35°C to +85°C

Series 34A unsealed miniature toggle switches are UL Recognized. Housing: Dialyl phthalate UL94V-0. Series 34B sealed miniature toggle switch: IP67 degree of protection. Housing: glass-filled nylon UL94V-0.

PANEL MOUNT MINIATURE TOGGLE SWITCHES

Mfg. Part No.	Fig.	Circuitry	Function	Stock No.	Price Each	
					1-24	25-49
● 34ASP11B1M1QT	1	SPDT	On-None-On	89C9918	2.70	2.55
● 34ASP41B1M1QT	1	SPDT	(On)-Off-(On)	89C9926	3.60	3.39
● 34ASP51B1M1QT	1	SPDT	On-Off-(On)	89C9927	3.00	2.83
● 34ADP11B1M1QT	1	DPDT	On-None-On	04M2561	3.96	3.74
● 34ADP31B1M1QT	1	DPDT	On-Off-On	89C9916	3.96	3.74

PC MOUNT MINIATURE TOGGLE SWITCHES

● 34ASP31B1M2QT	2	SPDT	On-Off-On	04M2592	3.60	3.39
● 34ASP51B1M2QT	2	SPDT	On-Off-(On)	04M2601	3.60	3.39
● 34ADP11B1M2QT	2	DPDT	On-On	89C9913	4.75	4.49
● 34ADP31B1M2QT	2	DPDT	On-Off-On	89C9917	4.76	4.49

RIGHT ANGLE PC MOUNT MINIATURE TOGGLE SWITCHES

● 34ASP12B4M6RT	3	SPDT	On-None-On	04M2583	3.92	3.70
● 34ADP12B4M6QT	3	DPDT	On-On	14M7431	4.89	4.62
● 34ADP12B4M6RT	3	DPDT	On-On	14M7432	4.65	4.39

VERTICAL RIGHT ANGLE PC MOUNT MINIATURE TOGGLE SWITCHES

● 34ASP12B4M7QT	4	SPDT	On-None-On	88K4410	3.74	3.53
● 34ASP12B4M7RT	4	SPDT	On-None-On	04M2585	3.92	3.70

SEALED MINIATURE TOGGLE SWITCHES

● 34BWS12B4M6QT	5	SPDT	On-None-On	04M2618	4.43	4.18
● 34BWS12B4M6RT	5	SPDT	On-None-On	14M7440	4.65	4.39
● 34BWS12B4M7QT	6	SPDT	On-None-On	14M7441	4.53	4.27
● 34BWS12B4M7RT	6	SPDT	On-None-On	14M7442	4.65	4.39

(72345)

TW SERIES MINIATURE
TOGGLE SWITCHES MILITARY
QUALIFIED TO MS-83731

Just Added

Honeywell
Sensing and Control



- MIL-S-83731 Qualified
- Rated: For Use @ 5A-125VAC
- Operating Temperature: -65°C to +71°C

Solder terminals. UL recognized, CSA certified. *Letter suffix in mfg. part no. denotes pull switches. Locks in extreme position on the keyway side.

Mfg. Part No.	MS- Number	Poles	Action	Bushing	Stock No.	Price Each
1TW1-3	27716-23-1	1	ON-NONE-ON	1/4" Unsealed	23F1906	18.24
11TW12	27718-22-1	1	OFF-NONE-ON	1 5/32" Sealed	39B4529	24.17
11TW1-3	27718-23-1	1	ON-NONE-ON	1 5/32" Sealed	23F2130	20.22
11TW1-7	27718-27-1	1	(ON)-OFF-(ON)	1 5/32" Sealed	23F2131	31.00
● 11TW8-3G*	...	1	ON-NONE-ON	1 5/32" Sealed	50F5249	61.29
2TW1-3	27717-23-1	2	ON-NONE-ON	1/4" Unsealed	23F1994	29.19
12TW1-1	27719-21-1	2	ON-OFF-ON	1 5/32" Sealed	23F2157	21.18
12TW1-3	27719-23-1	2	ON-NONE-ON	1 5/32" Sealed	23F2158	23.81
12TW1-7	27719-27-1	2	(ON)-OFF-(ON)	1 5/32" Sealed	23F2159	24.06

ACCESSORIES

Mfg. Part No.	Description	For Use With	Stock No.	Price Each
● 10PA4	Sealing Boot, 15/32-32	AT, NT, TL, TS and TW series Toggle Switch	23C9282	3.07
● 15PA87	Panel Seal, 15/32	AT, NT, TL, TS, or TW Series Toggle Switch	23F2167	6.67
15PA258	Sealing Ring (M5423/16-01)	AT, NT, TL, TS, or TW Series Toggle Switch	86C3709	3.67

(4868)

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1811

SWITCHES – TOGGLE

NT SERIES SEALED TOGGLE SWITCHES

Just Added



Honeywell

Sensing and Control

- Available with raised panel standoff and "O"-ring seal
- Screw terminals
- Meets NEMA 3, 3R, 4 and 13 as well as IP67 and IP68
- Step-design case for added space between terminals preventing shorting
- Spring-loaded actuating mechanism provides excellent tactile feedback
- High-impact strength, non-tracking case enhances electrical stability
- Temperature Range: -40°C to 71°C (-40°F to 160°F)
- UL Recognized, CSA Certified, CE Compliant



Designed to meet severe environment application needs for a rugged, cost-effective toggle switch. Quality construction features include a one-piece seal between the toggle lever and bushing, and between the cover and case. Terminal inserts are molded into the high-impact strength thermoplastic case. Includes mounting hardware. "NONE" in table indicates toggle lever is blocked from these positions. Toggle becomes 2-position with center being one extreme position. See table below for electrical ratings. 1/32"-32 UNS thread. Mfg. part nos. with prefixes 61 and 62 denote new version with raised panel standoff and "O"-ring seal.

UL RECOGNIZED AND CSA CERTIFIED ELECTRICAL RATINGS FOR NT SERIES

Rating Code	Electrical Rating
L191	15A, 125, 250, 277VAC; 1/2HP, 125VAC, 1HP, 250, 277VAC; 5A, 120VAC "L"
L192	10A, 125, 250, 277VAC; 1/4HP, 125VAC, 1/2HP, 250, 277VAC; 3A, 120VAC "L"

2-POSITION SWITCHES

Mfg. Part No.	Poles	Circuits Made At:			UL Code	Stock No.	Price Each
		Keyway Pos.	Opposite Keyway				
1NT1-2	1P	OFF	2-3		L191	73K1387	15.74
61NT1-2	1P	OFF	2-3		L191	32H3395	15.74
1NT1-3	1P	1-2	2-3		L191	95F5209	14.59
61NT1-3	1P	1-2	2-3		L191	32H3396	15.73
1NT1-4	1P	...	2-3		L192	95F5210	18.91
1NT1-6	1P	1-2*	OFF		L192	73K1389	15.74
61NT1-6	1P	1-2*	OFF		L192	73K1475	15.74
1NT1-8	1P	1-2*	2-3		L192	95F5212	14.59
61NT1-8	1P	1-2*	2-3		L192	73K1476	17.33
62NT1-2	2P	OFF	2-3, 5-6		L191	32H3416	22.04
2NT1-3	2P	1-2, 4-5	2-3, 5-6		L191	95F5214	20.42
62NT1-3	2P	1-2, 4-5	2-3, 5-6		L191	32H3417	24.27
4NT13	4P	1-2, 4-5, 7-8, 10-11	2-3, 5-6, 8-9, 11-12		L191	39B8007	35.78
4NT1-8	4P	1-2, 4-5, 7-8, 10-11*	2-3, 5-6, 8-9, 11-12		L192	39B8018	32.27

*Momentary positions. All others are maintained.

3-POSITION SWITCHES

Mfg. Part No.	Poles	Circuits Made At:			UL Code	Stock No.	Price Each
		Keyway Pos.	Center Pos.	Opposite Keyway			
1NT1-1	1P	1-2	OFF	2-3	L191	73K1386	13.89
61NT1-1	1P	1-2	OFF	2-3	L191	32H3394	15.51
1NT1-5	1P	1-2*	OFF	2-3	L192	73K1388	13.89
1NT1-7	1P	1-2*	OFF	2-3*	L192	73K1390	14.59
61NT1-7	1P	1-2*	OFF	2-3	L192	32H3398	14.37
2NT1-1	2P	1-2, 4-5	OFF	2-3, 5-6	L191	95F5225	20.12
62NT1-1	2P	1-2, 4-5	OFF	2-3, 5-6	L191	73K1477	24.26
2NT1-5	2P	1-2, 4-5*	OFF	2-3, 5-6	L192	95F5226	20.42
2NT1-7	2P	1-2, 4-5*	OFF	2-3, 5-6	L192	73K1415	20.42
62NT1-7	2P	1-2, 4-5*	OFF	2-3, 5-6	L192	73K1478	24.27
2NT1-12	2P	1-2, 4-5	2-3, 4-5	2-3, 5-6	L191	95F5232	22.56
2NT1-50	2P	1-2, 4-5*	1-2, 5-6	2-3, 5-6	L192	95F5233	25.09
4NT1-70	2P	1-2, 4-5*	1-2, 5-6	2-3, 5-6	L192	95F5234	22.14
4NT1-1	4P	1-2, 4-5, 7-8, 10-11	OFF	2-3, 5-6, 8-9, 11-12	L191	39B7998	35.78
4NT1-7	4P	1-2, 4-5, 7-8, 10-11	OFF	2-3, 5-6, 8-9, 11-12	L192	39B8016	34.74

*Momentary positions. All others are maintained.

ACCESSORIES

Mfg. Part No.	Description	For Use With	Stock No.	Price Each
10PA4	Sealing Boot, 15/32-32	AT, NT, TL, TS and TW series Toggle Switch	23C9282	3.07
15PA87	Panel Seal, 15/32	AT, NT, TL, TS, or TW Series Toggle Switch	23F2167	6.67
15PA258	Sealing Ring (M5423/16-01)	AT, NT, TL, TS, or TW Series Toggle Switch	86C3709	3.67

(4880)

NT SERIES FLAT BASE, SEALED TOGGLE SWITCHES

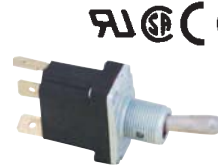
Just Added



Honeywell

Sensing and Control

- Quick-Connect
- Meets NEMA 3, 3R, 4 and 13 as well as IP67 and IP68
- Flat Base With Quick-Connect Terminals Mating Connectors are Available Separately; go online or call
- Spring-Loaded Actuating Mechanism Provides Tactile Feedback
- High-Impact Strength, Non-Tracking Case Enhances Electrical Stability
- Temperature Range: -40°C to +71°C (-40°F to +160°F)
- UL recognized, CSA certified, CE Compliant



Designed to meet severe environment application needs for rugged cost-effective manual switches. Identical to the stepped base style in construction and features. Allows for PC Board or connector use for easy wiring/connection. See table below for electrical ratings. 1/32"-32 UNS thread. Mounting hardware included.

UL AND CSA ELECTRICAL RATINGS FOR NT SERIES

Rating Code	Electrical Rating
L192	10A, 125, 250, 277VAC; 1/4HP, 125VAC, 1/2HP, 250, 277VAC; 3A, 125VAC "L"
L191	15A, 125, 250, 277VAC; 1/2HP, 125VAC, 1HP, 250, 277VAC; 5A, 125VAC "L"

2-POSITION

Mfg. Part No.	Poles	Circuits Made At:			UL Code	Stock No.	Price Each
		Keyway Position	Opposite Keyway	Center Position			
31NT91-2	1	OFF	2-3	...	L191	92F2951	13.15
31NT91-3	1	1-2	2-3	...	L191	92F2952	17.13
31NT91-6	1	1-2*	Off	...	L192	92F2954	14.19
32NT91-2	2	Off	2-3, 5-6	...	L191	92F2956	19.67
32NT91-3	2	1-2, 4-5	2-3, 5-6	...	L191	73K1449	19.67

3-POSITION

31NT91-1	1	1-2	2-3	OFF	L191	92F2961	13.98
31NT91-7	1	1-2*	2-3*	OFF	L192	92F2963	13.15
31NT91-21	1	NONE	2-3	OFF	L191	92F2964	20.96
32NT91-1	2	1-2, 4-5	2-3, 5-6	OFF	191	92F2968	18.23
32NT91-7	2	1-2, 4-5*	2-3, 5-6*	OFF	192	92F2970	21.02
32NT91-70	2	1-2, 4-5*	2-3, 5-6*	1-2, 5-6	L192	73K1450	27.58

* Momentary positions. All other maintained.

ACCESSORIES

Mfg. Part No.	Description	For Use With	Stock No.	Price Each
10PA4	Sealing Boot, 15/32-32	AT, NT, TL, TS and TW series Toggle Switch	23C9282	3.07
15PA87	Panel Seal, 15/32	AT, NT, TL, TS, or TW Series Toggle Switch	23F2167	6.67
15PA258	Sealing Ring (M5423/16-01)	AT, NT, TL, TS, or TW Series Toggle Switch	86C3709	3.67

(4903)

TS SERIES INDUSTRIAL TOGGLE SWITCHES



Just Added

Honeywell

Sensing and Control

- Electrical Ratings: 15A @ 125, 250, 277VAC; 1/2HP @ 125VAC; 1HP @ 250/277VAC; 5A @ 125VAC Lamp Load
- 1-Pole Versions are 1.08H x 0.62W x 1.13L" (27.40 x 15.70 x 28.70)
- 2-Pole Versions are 1.06H x 0.75W x 1.31L" (27.00 x 19.00 x 33.30)



For use in light industrial applications. Provided with lever-to-bushing seals. UL recognized, CSA certified, () in type column indicates momentary action. Listings with -5 or -7 suffix are 10A @ 125/250/277VAC.

Mfg. Part No.	Action	Circuitry	Terminal	Stock No.	Price Each
11TS15-1	On-Off-On	SPDT	Screw	23F2113	13.40
11TS15-2	On-None-Off	SPST	Screw	23F2114	13.96
11TS15-3	On-None-On	SPST	Screw	23F2115	13.40
11TS15-6	(On)-Off	SPST	Screw	23F2117	12.62
11TS15-3	On-None-On	DPST	Solder Lug	23F2126	12.72
11TS15-7	(On)-Off-(On)	SPDT	Screw	23F2118	14.12
11TS95-1	On-Off-On	SPST	Quick Connect	23F2120	12.54
11TS95-7	(On)-Off-(On)	SPST	Quick Connect	23F2124	13.54
12TS15-2	Off-None-On	DPST	Screw	23F2146	14.51
12TS15-1	On-Off-On	DPDT	Screw	23F2145	17.36
12TS115-1	On-Off-On	DPST	Solder Lug	23F2153	15.77
12TS115-2	Off-None-On	DPST	Solder Lug	23F2154	13.05
12TS115-3	On-None-On	DPST	Solder Lug	23F2155	15.77
12TS115-5	(On)-Off-On	DPDT	Solder Lug	50F5244	17.50
12TS95-3	On-None-On	DPST	Quick Connect	23F2151	16.01

➔ CONTINUED ➔

SWITCHES – TOGGLE

TS SERIES INDUSTRIAL TOGGLE SWITCHES (CONT.)

Mfg. Part No.	Action	Circuitry	Terminal	Stock No.	Price Each
					1-24
● 12TS95-7	(On)-Off-(On)	DPDT	Quick Connect	23F2152	17.99
● 12TS95-70	On-On-On	DPST	Quick Connect	39B4838	24.07

ACCESSORIES

Mfg. Part No.	Description	For Use With	Stock No.	Price Each
				1-24
● 10PA4	Sealing Boot, 15/32-32	AT, NT, TL, TS and TW series Toggle Switch	23C9282	3.07
● 15PA87	Panel Seal, 15/32	AT, NT, TL, TS, or TW Series Toggle Switch	23F2167	6.67
15PA258	Sealing Ring (M5423/16-01)	AT, NT, TL, TS, or TW Series Toggle Switch	86C3709	3.67

(4867)

TL SERIES 2-POSITION ENVIRONMENTAL SEALED TOGGLE SWITCHES, MILITARY APPROVED TO MIL-S-3950

Honeywell
Sensing and Control

- Operating Temperature Range: -65°C to +71°C
- L191 UL/CSA Rating Code: 15A-125/250/277VAC; ½HP-125VAC; 1HP-250/277VAC; 5A-120VAC Lamp Load
- L192 UL/CSA Rating Code: 10A-125/250/277VAC; ¼HP-125VAC; ½HP-250/277VAC; 3A125VAC Lamp Load

Sealed switches feature strong non-tracking case, screw terminals, silver-cadmium oxide contacts. D suffix in mfg. part no. denotes pull switches and locks out of center position. G suffix in mfg. part no. denotes pull switches and locks out of extreme position. Lever operates on direct-action, spring-loaded mechanism. () indicates momentary action. CE certified.

1 POLE

Mfg. Part No.	Mil No. MS-	Action	UL/CSA Code	Stock No.	Price Each
					1-14
● 1TL1-2	24523-22	OFF-ON	L191	23F1895	19.04
● 1TL1-2G	24658-22G	OFF-ON	L191	99F9469	35.78
● 1TL1-2D	24658-22D	OFF-ON	L191	23F1896	32.78
● 1TL1-6	24523-30	(ON)-OFF	L192	23F1900	20.34
● 1TL1-3	24523-23	ON-ON	L191	23F1897	19.04
● 1TL1-8	24523-26	(ON)-ON	L192	23F1901	20.17
● 1TL1-3D	24658-23D	ON-ON	L191	23F1898	38.41
● 1TL1-4	24523-29	(OFF)-ON	L192	94F5341	21.03

2 POLE

● 2TL1-2	24524-22	OFF-ON	L191	23F1978	30.07
● 2TL1-6	24524-30	(ON)-OFF	L192	23F1982	27.35
● 2TL1-3	24524-23	ON-ON	L191	23F1979	27.37
● 2TL1-8	24524-26	(ON)-ON	L192	23F1985	27.83
● 2TL1-3D	24659-23D	ON-ON	L191	23F1980	43.30
● 2TL1-4	24524-29	(OFF)-ON	L192	50F5255	45.42

4 POLE

● 4TL1-2	24525-22	OFF-ON	L191	23F2014	52.71
● 4TL1-3	24525-23	ON-ON	L191	23F2015	49.77
● 4TL1-8	24525-26	(ON)-ON	L192	23F2017	75.17
● 4TL1-3D	24525-23D	ON-ON	L191	50F5256	67.53

ACCESSORIES

Mfg. Part No.	Description	For Use With	Stock No.	Price Each
				1-24
● 10PA4	Sealing Boot, 15/32-32	AT, NT, TL, TS and TW series Toggle Switch	23C9282	3.07
● 15PA87	Panel Seal, 15/32	AT, NT, TL, TS, or TW Series Toggle Switch	23F2167	6.67
15PA258	Sealing Ring (M5423/16-01)	AT, NT, TL, TS, or TW Series Toggle Switch	86C3709	3.67

(4866)



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(148830)

TL SERIES 3-POSITION ENVIRONMENTAL SEALED TOGGLE SWITCHES, MILITARY APPROVED TO MIL-S-3950

Sealed switches feature strong non-tracking case, screw terminals, silver-cadmium oxide contacts. Operating temperature range: -65°C to +71°C. A and E suffixes in mfg. part nos. denote pull switches; Suffix A locks in 3-positions and Suffix E locks in center position. Lever operates on direct-action, spring-loaded mechanism. () indicates momentary action.



Honeywell

Sensing and Control



Just Added



UL RECOGNIZED AND CSA CERTIFIED ELECTRICAL RATINGS FOR TL SERIES

Rating Code	Electrical Rating
L191	15A, 125, 250, 277VAC; ½HP, 125VAC, 1HP, 250, 277VAC; 5A, 120VAC "L"
L192	10A, 125, 250, 277VAC; ¼HP, 125VAC, ½HP, 250, 277VAC; 3A, 120VAC "L"

1-POLE

Mfg. Part No.	Mil. No. MIL-	Action	UL/CSA Code	Stock No.	Price Each
					1-24
● 1TL1-1	24523-21	On-Off-On	L191	23F1894	20.17
● 1TL1-1A	24658-21A	On-Off-On	L191	24C7899	34.13
● 1TL1-5	24523-31	(On)-Off-On	L192	23F1899	23.40
● 1TL1-7	24523-27	(On)-Off-(On)	L192	23F4232	18.26
● 1TL1-1E	24658-21E	On-Off-On	L191	50F5254	35.71

2-POLE

● 2TL1-1	24524-21	On-Off-On	L191	23F1977	30.07
● 2TL1-5	24524-31	(On)-Off-On	L192	23F1981	31.29
● 2TL1-7	24524-27	(On)-Off-(On)	L192	23F1983	27.37
● 2TL1-7E	24659-7E	(On)-Off-(On)	L191	23F1984	58.77
● 2TL1-10	27407-4	On-On-On	L191	23F1986	29.53
● 2TL1-10A	27408-4	On-On-On	L191	23F1987	49.54
● 2TL1-50	27407-5	On-On-(On)	L192	23F1988	30.22
● 2TL1-70	27407-6	(On)-On-(On)	L192	23F1989	30.07

4-POLE

● 4TL1-1	24525-21	On-Off-On	L191	23F2013	52.71
● 4TL1-7	24525-27	(On)-Off-(On)	L192	23F2016	52.71
● 4TL1-5	24525-31	(On)-Off-On	L192	50F5257	47.86
● 4TL1-12	27406-1	On-On-On	L191	91B2311	76.95
● 4TL1-70	...	(On)-On-(On)	L192	50F5112	64.67

ACCESSORIES

Mfg. Part No.	Description	For Use With	Stock No.	Price Each
				1-24
● 10PA4	Sealing Boot, 15/32-32	AT, NT, TL, TS and TW series Toggle Switch	23C9282	3.07
● 15PA87	Panel Seal, 15/32	AT, NT, TL, TS, or TW Series Toggle Switch	23F2167	6.67
15PA258	Sealing Ring (M5423/16-01)	AT, NT, TL, TS, or TW Series Toggle Switch	86C3709	3.67

(12432)

SERIES 19A TOGGLE SWITCH GUARDS



Honeywell

Sensing and Control

Features:

- Rugged spring-loaded design provides protection against accidental actuation
- Perfect for a variety of applications: Mil-Spec 19PA184-NT for aviation and military, cost effective 19PA217-NT for applications such as industrial work platforms and auto racing

Specifications:

- Designed for use with 2 position standard toggle switches
- Base faceplate is black steel
- Mounting hole accepts 15/32" mounting stems



Mfg. Part No.	Position	Mil-Spec	Stock No.	Price Each	
				1-24	25-49
● 19PA184-NT	2	MS25224-1	39B5427	60.36	55.11
● 19PA217-NT	2	...	72J1820	11.42	10.43

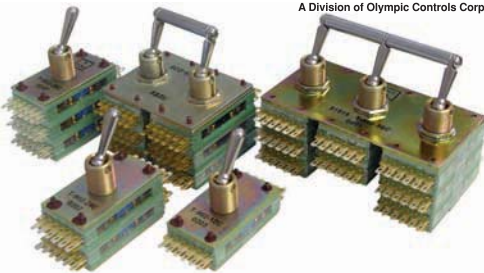
(88584)

SWITCHES – TOGGLE

TOGGLE SWITCHES AND ACCESSORIES



- Dust-Tight Seal
- Rated 1A-5A
- Form C Contacts
- Available in 12 to 144 Pole, Double Throw, Maintained Action
- Connector Packages and Pre-Wired Connectors Available



Protect against normal ambient dust conditions. Designed for use in a controlled environment such as test areas, computer control rooms, broadcast studios and network management centers. **802 series** is used for control and indicator circuits and has a 1A to 5A switching capacity. **902 series** is designed to switch dry circuits to a maximum of 1A for use in data, thermocouple and instrumentation circuits.

Mfg. Part No.	Poles	Contacts	Style	Stock No.	Price Each	
					Each	2-4
802-12C	12	Button	Single Stack Toggle	59F726	347.76	315.84
802-24C	24	Button	Single Stack Toggle	59F729	505.08	458.72
802-36C	36	Button	Single Stack Toggle	59F731	662.40	601.60
802-48C	48	Button	Double Stack Toggle	59F744	819.72	744.48
802-72C	72	Button	Double Stack Toggle	59F746	1374.48	1248.32
902-12C	12	Bifurcated	Single Stack Toggle	23F1161	337.41	306.44
902-24C	24	Bifurcated	Single Stack Toggle	23F1162	494.73	449.32
902-36C	36	Bifurcated	Single Stack Toggle	23F1163	652.05	592.20
902-48C	48	Bifurcated	Double Stack Toggle	23F1164	809.37	735.08

CONNECTOR PACKAGES

Mfg. Part No.	Plating	Contains Components	Stock No.	Price Each	
				Each	2-4
88601	Gold	1 Connector Block 1 Identification Label 8601-006-1 1 Identification Label 8601-006-2 1 Retainer 8601-3 20 Contacts, Either 8601-1 (Tin-Plated) or 8601-1-G76 (Gold-Plated)	59F741	31.56	28.68

PREWIRED CONNECTORS

Mfg. Part No.	Plating	Description	Stock No.	Price Each	
				Each	2-4
88601-18C	Gold	1 Connector Block 1 Identification Label 8601-006-1 1 Identification Label 8601-006-2 1 Retainer 8601-3 20 Contacts, Either 8601-1 (Tin-Plated) or 8601-1-G76 (Gold-Plated) 18" Pre-Wired Cable, #22 AWG Wire, Color Coded: Common, Normally Open and Normally Closed. End Stripped 3/16"	44F2076	104.79	95.17

(73442)

TSP AND TST SUBMINIATURE SEALED SWITCHES



- Washable Process Sealed Construction
- Contacts: 0.4VA Maximum @ 20VDC or Peak AC; Gold Over Nickel
- Initial Contact Resistance: 20 Milliohms Maximum
- Operating Temperature: -30°C to +85°C
- 0.100" Pin Spacing
- Bushing: 0.170"



Fig. 1

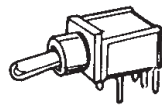


Fig. 2

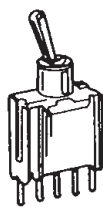


Fig. 3

TSP SERIES PUSHBUTTON SWITCHES, OFF-(ON) ACTION

Mfg. Part No.	Fig.	Circuits	Termination	Stock No.	Price Each		
					1-24	25-49	50-99
TSPD11CGPC0	1	SPST	PC	84F782	14.17	13.39	12.75
● TSPD11CGPC004	1	SPST	PC	16M2496	8.20	7.72	7.37
● TSPD11CGRA004	...	SPST	Right-Angle	16M2497	6.26	5.90	5.63

TST SERIES TOGGLE SWITCHES, ON-NONE-ON ACTION

● TST11DGRA1D04	2	SPDT	Right-Angle	16M2503	11.15	6.13	...
TST11DGPCV1D	3	SPDT	PCB	84F792	19.90	18.80	17.90

(4762)

MT SERIES MINIATURE TOGGLE SWITCHES



Just Added



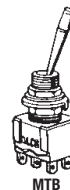
Tyco Electronics



MTA



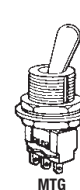
MTA-PC



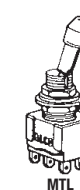
MTB



MTM-PC



MTG



MTL

Feature molded-in, gold flash terminals to prevent solder, flux and contaminants from entering contact area. Contacts are solid silver and are rated 6A at 125VAC, 3A at 250VAC, 4A at 28VDC. Cases are green diallyl phthalate. All have 1/4-40 high-torque bushings except **MTG series**: 1/8" bushings. UL listed. () denotes momentary position.

MTA SERIES WITH MINIATURE BAT TOGGLES AND LUG TERMINALS

Terminals accept two 20AWG wires.

Mfg. Part No.	Circuitry	Action	Stock No.	Price Each	
				1-24	25-49
● MTA106D	SPDT	On-On	69K7015	3.19	2.91
● MTA106F04	SPDT	On-Off-On	69K7019	5.57	4.88
● MTA106G04	SPDT	(On)-Off-(On)	69K7020	5.16	4.73
● MTA206R04	DPDT	On-None-(On)	85K0001	8.46	8.00
● MTA206P04	DPDT	On-Off-On	69K7002	10.57	9.61
● MTA206S04	DPDT	(On)-Off-(On)	88K2498	9.24	7.96
● MTA206T04	DPDT	On-Off-(On)	16M2457	8.17	7.43
● MTA206PA04	SP3T	On-On-On	69K7003	8.84	8.49
● MTA306D04	3PDT	On-On	69K7052	12.66	11.51
● MTA306E04	3PDT	On-Off-On	16M2458	13.46	12.94
● MTA-406PA04	DP3T	On-On-On	76K0467	20.48	19.44
● MTA406P04	4PDT	On-Off-On	87K0972	14.86	14.34

MTA SERIES WITH MINIATURE BAT TOGGLES AND PC TERMINALS

Pin spacing on 0.170" centers.

● MTA106DPC04	SPDT	On-On	69K7016	5.17	4.74
● MTA106EPC04	SPDT	On-Off-On	69K7018	6.64	6.08
● MTA106GPC04	SPDT	(On)-Off-(On)	03M2633	5.68	5.17
● MTA206NPC04	DPDT	On-On	69K7001	7.42	6.81
● MTA206RPC04	DPDT	On-(On)	16M2456	8.26	7.94
● MTA406NPC04	4PDT	On-On	96K4613	14.13	12.86
● MTA406PPC04	4PDT	On-Off-On	96K5020	17.64	16.96

MTB SERIES MINIATURE BATON TOGGLES WITH LUG TERMINALS

Baton: 0.600" long with black plastic tip.

● MTB106D04	SPDT	On-On	16M2459	7.80	7.49
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MTF SERIES MINIATURE FLAT TOGGLES WITH LUG TERMINALS

● MTF106D04	SPDT	On-On	69K7023	4.41	4.23
● MTF106E04	SPDT	On-Off-On	05M6691	5.35	5.14
● MTF106G04	SPDT	(On)-Off-(On)	16M3793	7.02	6.74
● MTF106H04			16M3794	9.26	8.90
● MTF206N04	DPDT	On-On	69K7004	8.19	7.44
● MTF206S04	DPDT	(On)-Off-(On)	16M3796	8.24	7.91
● MTF206S04	DPDT	(On)-Off-(On)	16M3796	8.24	7.91
● MTE106D04	SPDT	On-On	69K7022	8.08	7.34
● MTE106E04	SPDT	On-Off-On	16M3791	6.13	5.88
● MTE106F04	SPDT	On-(On)	51M4461	7.40	6.73
● MTE206N04	DPDT	On-On	08M1245	8.23	7.55
● MTE306D04	3PDT	On-On	16M3792	14.42	13.86

MTG SERIES WITH SHORT MUSTANG TOGGLES AND LUG TERMINALS

● MTG206N04	DPDT	On-On	69K7005	10.75	9.78
● MTG206P04	DPDT	On-Off-On	87K3155	10.27	9.29

MTL SERIES WITH MINIATURE LOCKING TOGGLES AND LUG TERMINALS

● MTL106D04	SPDT	On-On	69K7025	8.20	7.45
● MTL106E04	SPDT	On-Off-On	53M6083	9.93	9.32
● MTL206P04	DPDT	On-Off-On	04M6995	14.61	13.27
● MTL206PA04	SP3T	On-On-On	16M2460	17.27	16.89

(4764)



eQuotes

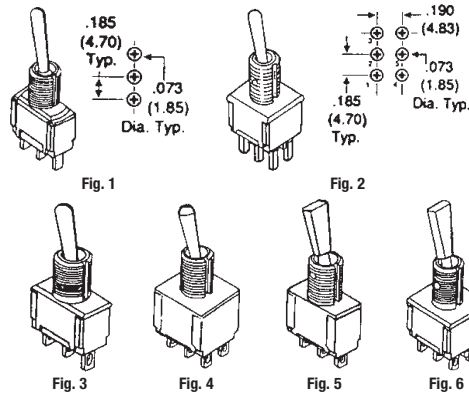
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(148833)

SWITCHES – TOGGLE

GEMINI SERIES
MINIATURE
SWITCHES

Just Added

Contact rating: gold 0.04VA at 20VDC; silver 2A at 250VAC, 5A at 125VAC. Epoxy sealed terminals. Dielectric strength: 1,000Vrms. Contact resistance: 30mΩ, -30°C to +85°C. Hardware supplied with toggle models includes 2 hex nuts, 1 lockwasher, 1 locking ring. Mfg. part nos. with **Q** suffix are UL recognized, CSA certified. Wire lug terminals, silver contacts. **B** suffix = gold.

LONG PC TERMINAL, BAT TOGGLE, 1/4-40 THREADED, 0.35" L, SLOTTED BUSHING, GOLD CONTACTS

Mfg. Part No.	Fig.	Circuitry	Action	Stock No.	Price Each		
					1-24	25-49	50-99
● A101SYC04	3	SPDT	On-On	69K7054	2.69	2.45	2.24
● A103SYC04	1	SPDT	On-Off-On	88K0511	4.03	3.58	3.25
● A203SYC04	2	DPDT	On-Off-On	16M2406	7.15	6.95	6.71
● A208SYC04	2	DPDT	(On)-On	16M2409	5.20	4.85	4.69

LONG BAT TOGGLE, 1/4-40 THREADED, 0.35" L, SLOTTED BUSHING

Mfg. Part No.	Fig.	Circuitry	Action	Stock No.	Price Each		
					1-24	25-49	50-99
● A101SYZ004	3	SPDT	On-On	69K7055	4.17	3.82	3.53
● 2-1825137-0	3	SPDT	On-Off-On	69K7051	6.71	6.52	6.30
● A105SYZ004	3	SPDT	(On)-Off-(On)	69K5792	4.69	4.54	4.38
● A107SYZ004	3	SPDT	(On)-Off-On	16M2405	7.91	7.70	7.43
● A203SYZ004	4	DPDT	On-Off-On	02M1076	4.34	3.85	3.50
● A205SYZ004	4	DPDT	(On)-Off-(On)	16M2408	8.12	7.90	7.62
● A207SYZ004	4	DPDT	(On)-Off-On	02M5938	6.34	5.74	5.25
● A211SYZ004	4	DPDT	On-On-On	16M2410	7.49	6.81	6.24
● A213SYZ004	4	DPDT	On-On-(On)	16M2411	13.20	12.85	12.40
● A215SYZ004	4	DPDT	(On)-On-(On)	16M2412	11.59	11.27	10.88

FLATTED TOGGLE, 1/4-40 THREADED, 0.35" L, SLOTTED BUSHING

Mfg. Part No.	Fig.	Circuitry	Action	Stock No.	Price Each		
					1-24	25-49	50-99
● A101P3Z004	5	SPDT	On-On	04M7050	4.66	4.38	4.11
● A103P3Z004	5	SPDT	On-Off-On	16M2404	8.35	8.10	7.84
● A107P3Z004	5	SPDT	(On)-Off-On	88K2786	8.22	7.48	6.78
● A108P3Z004	5	SPST	On-(On)	80K0975	5.93	5.37	4.91
● A201P3Z004	6	DPDT	On-None-On	85K8698	5.51	5.01	4.59
● A205P3Z004	6	DPDT	(On)-Off-(On)	16M2407	9.41	9.16	8.84
● A207P3Z004	6	DPDT	(On)-Off-On	06M5116	9.94	9.67	9.33
● A208P3Z004	6	DPDT	On-None-(On)	96K4547	8.68	8.44	8.15

(4780)

INDUSTRIAL-
RATED AC/DC
TOGGLE SWITCHES


Quick-make, quick-break action switches feature nonseparable, self-cleaning, wiping action contacts. All feature On-None-Off switching action *except* Mfg. Part No. 8690K2 which is On-None-On. Units are one-hole mounting and have screw terminals. Mounting hardware, consisting of one hexagon locknut and one nickel-plated facenut, and terminal hardware are furnished unassembled. 0.071" wide x 0.038" deep keyway provides anti-rotation feature.

DIMENSIONS AND RATINGS

Code	Dimensions (inches)				AC & DC Rating (A)	
	A	B	C	D	@ 125V	@250V
A	0.469	0.656	0.780	1.875	16	8
B	0.453	0.500	0.806	1.875	16	8
C	0.468	0.674	0.780	1.875	16	8
D	0.344	0.656	0.890	2.250	20	10
E	0.453	0.671	0.932	2.250	20	10
F	0.453	0.500	0.932	2.250	20	10
G	0.469	0.812	1.265	2.500	5	10
H	0.410	0.500	1.265	2.640	...	20

➔ CONTINUED ➔

INDUSTRIAL-RATED AC/DC TOGGLE SWITCHES (CONT.)

Code	Dimensions (inches)				AC & DC Rating (A)	
	A	B	C	D	@ 125V	@250V
I	0.469	0.656	0.890	2.250	20	10
J	0.469	0.812	1.265	2.640	...	20

BATON TOGGLE

Mfg. Part No.	Tyco Part#	Circuitry	Code	Stock No.	Price Each		
					1-24	25-49	50-99
● 7320K3	1520237-2	DPST	A	23F251	9.13	8.31	7.61
● 7320K50*	1520281-1	DPST	C	46F1870	11.03	10.32	9.75
7360K7	1520228-3	DPST	D	23F270	10.25	9.61	9.04
● 7360K8	1520228-4	DPST	E	23F253	11.50	10.55	9.73
8690K2	1520204-1	DPDT	G	23F229	31.67	30.40	29.23
● 7361K5	1520228-5	SPST	I	41F524	15.10	14.14	13.35
● 7402K4	1520230-2	DPST	J	23F255	17.77	17.05	16.40

* Double Insulated

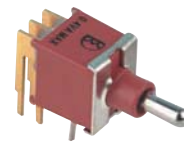
BATON WITH BALL TOGGLE

Mfg. Part No.	Tyco Part#	Circuitry	Code	Stock No.	Price Each		
					1-24	25-49	50-99
● 7320K13	1520135-2	DPST	B	23F039	24.75	23.17	21.88
● 7360K13	1520136-2	SPST	F	23F016	14.03	13.13	12.40
● 7402K5	1520137-1	DPST	H	23F020	36.40	34.07	32.18

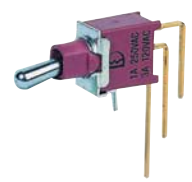
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SUBMINIATURE
TOGGLE SWITCHES, PCB
MOUNTING - WASHABLE

Vertical mounting



Horizontal mounting - type 1



Horizontal mounting - type 2

Features:

- Process sealed - withstands machine soldering and pressure wash processes
- Epoxy sealed terminations

Specifications:

- Operating temperature: -30°C to +85°C
- Contact resistance: ≤20mΩ
- Electrical life: 50000 ops.
- (On) = Momentary action

VERTICAL MOUNTING

Mfg. Part No.	Circuitry	Action	Stock No.	Price Each
				1-99
● 2AS1T2A1M2RE	SPDT	On-On	98K6183	1.81
● 2AS3T2A1M2RE	SPDT	On-Off-On	98K6187	1.91
● 2AS4T2A1M2RE	SPDT	(On)-Off-(On)	98K6189	2.13
● 2AS5T2A1M2RE	SPDT	On-Off-(On)	98K6190	2.13
● 2AS2T2A1M2RE	SPDT	On-(On)	98K6186	1.88
● 2AD2T2A2M2RE	DPDT	On-(On)	95M1927	2.10
● 2AD1T2A2M2RE	DPDT	On-On	95M1924	1.87
● 2AD3T2A2M2RE	DPDT	On-Off-On	95M1930	2.20
● 2AD6T2A2M2RE	DPDT	On-On-On	95M1932	2.24

HORIZONTAL MOUNTING - TYPE 1

Mfg. Part No.	Circuitry	Action	Stock No.	Price Each
				1-99
● 2AS1T2A1M6RE	SPDT	On-On	98K6184	1.91
● 2AS5T2A1M6RE	SPDT	On-Off-(On)	98K6191	2.33
● 2AS4T2A1M6RE	SPDT	(On)-Off-(On)	95M1936	2.13
● 2AD3T2A2M6RE	DPDT	On-Off-On	98K6182	2.43
● 2AD2T2A2M6RE	DPDT	On-(On)	95M1928	2.23
● 2AD1T2A2M6RE	DPDT	On-On	95M1925	2.04
● 2AD6T2A2M6RE	DPDT	On-On-On	95M1933	2.39

HORIZONTAL MOUNTING - TYPE 2

Mfg. Part No.	Circuitry	Action	Stock No.	Price Each
				1-99
● 2AS1T2A1M7RE	SPDT	On-On	98K6185	2.02
● 2AS3T2A1M7RE	SPDT	On-Off-On	98K6188	2.13
● 2AS2T2A1M7RE	SPDT	On-(On)	95M1935	1.90
● 2AS4T2A1M7RE	SPDT	(On)-Off-(On)	95M1937	2.13
● 2AS5T2A1M7RE	SPDT	On-Off-(On)	95M1938	2.23
● 2AD2T2A2M7RE	DPDT	On-(On)	95M1929	2.23
● 2AD1T2A2M7RE	DPDT	On-On	95M1926	2.04
● 2AD3T2A2M7RE	DPDT	On-Off-On	95M1931	2.36
● 2AD6T2A2M7RE	DPDT	On-On-On	95M1934	2.36

(116567)

SWITCHES – TOGGLE

SUBMINIATURE
TOGGLE SWITCHES,
PCB MOUNTING

Fig. 1

Just Added



Fig. 2



Fig. 3

Specifications:

- Electrical life: 30000 2 position, 30000 3 position
- Operating temperature: -30°C to +85°C
- Contact resistance: 20mR @ 4V dc
- (On) = Momentary action

Dimensions: Vertical - Body H=8.3 W=5.08 (SPDT), 9.14 (DPDT) D=8.13; Horizontal - Body H=5.8 (SPDT), 9.14 (DPDT) W=8.13, D=9.09; Vertical Threaded Bush - Body H=8.64 W=5.08 (SPDT), 9.14 (DPDT) D=8.13

Features:

- Gold plated contacts allow low level switching
- Epoxy sealed terminations
- Threaded bush types for panel mounting

VERTICAL MOUNTING

Mfg. Part No.	Fig.	Circuitry	Action	Stock No.	Price Each
● 2MS1T2B2M2RE	1	SPDT	On-On	98K6231	1.30
● 2MS3T2B2M2RE	1	SPDT	On-Off-On	98K6235	1.77
● 2MS2T2B2M2RE	1	SPDT	On-(On)	98K6233	1.51
● 2MS4T2B2M2RE	1	SPDT	(On)-Off-(On)	95M1956	1.71
● 2MS5T2B2M2RE	1	SPDT	On-Off-(On)	95M1960	1.81
● 2MD1T2B2M2RE	1	DPDT	On-On	98K6226	1.73
● 2MD3T2B2M2RE	1	DPDT	On-Off-On	98K6229	1.78
● 2MD2T2B2M2RE	1	DPDT	On-(On)	95M1942	1.74
● 2MD6T2B2M2RE	1	DPDT	On-On-On	95M1948	2.43

HORIZONTAL MOUNTING - R/A

● 2MS1T2B2M6RE	2	SPDT	On-On	98K6232	1.64
● 2MS2T2B2M6RE	2	SPDT	On-(On)	95M1952	1.80
● 2MS3T2B2M6RE	2	SPDT	On-Off-On	98K6236	1.78
● 2MS4T2B2M6RE	2	SPDT	(On)-Off-(On)	95M1957	1.81
● 2MS5T2B2M6RE	2	SPDT	On-Off-(On)	95M1961	1.90
● 2MD1T2B2M6RE	2	DPDT	On-On	98K6227	1.78
● 2MD2T2B2M6RE	2	DPDT	On-(On)	95M1943	1.90
● 2MD3T2B2M6RE	2	DPDT	On-Off-On	95M1945	2.13
● 2MD6T2B2M6RE	2	DPDT	On-On-On	95M1949	2.30

VERTICAL MOUNTING - R/A

● 2MS2T2B2M7RE	...	SPDT	On-(On)	95M1953	1.80
● 2MS1T2B2M7RE	...	SPDT	On-On	95M4705	1.65
● 2MS4T2B2M7RE	...	SPDT	(On)-Off-(On)	95M1958	1.81
● 2MS3T2B2M7RE	...	SPDT	On-Off-On	95M1954	1.68
● 2MS5T2B2M7RE	...	SPDT	On-Off-(On)	95M1962	1.90
● 2MD2T2B2M7RE	...	DPDT	On-(On)	95M1944	1.90
● 2MD1T2B2M7RE	...	DPDT	On-On	95M1940	1.68
● 2MD3T2B2M7RE	...	DPDT	On-Off-On	95M1946	2.13
● 2MD6T2B2M7RE	...	DPDT	On-On-On	95M1950	2.30

VERTICAL MOUNTING - THREADED BUSH

● 2MS1T1B5M2RE	3	SPDT	On-On	98K6230	1.47
● 2MS3T1B5M2RE	3	SPDT	On-Off-On	98K6234	1.70
● 2MS2T1B5M2RE	3	SPDT	On-(On)	95M1951	1.84
● 2MS4T1B5M2RE	3	SPDT	(On)-Off-(On)	95M1955	1.84
● 2MS5T1B5M2RE	3	SPDT	On-Off-(On)	95M1959	1.97
● 2MD3T1B5M2RE	3	DPDT	On-Off-On	98K6228	1.93
● 2MD1T1B5M2RE	3	DPDT	On-On	98K6225	1.66
● 2MD2T1B5M2RE	3	DPDT	On-(On)	95M1941	1.84
● 2MD6T1B5M2RE	3	DPDT	On-On-On	95M1947	2.24

(116564)

Expert
technical
support

(148838)

Chat online to our team of engineers, or connect to them through your representative.

SUBMINIATURE
TOGGLE SWITCHES

Specifications:

- Silver Contacts Rated: 3A 125VAC or 28VDC Resistive
- Case Rated: UL94V-0
- Operating Temperature: -30°C to +85°C
- UL Listed



Fig. 1



Fig. 2



Toggle switches fit 0.100" PC board grid. Feature chrome-plated brass actuator, nickel-plated brass bushing, and stainless steel housing. End contacts: silver-plated coin silver. Epoxy sealed silver-plated brass center contact and terminals.

SPST — FIG. 1

Mfg. Part No.	Action	Termination †	Actuator Height	Bush-ing‡	Stock No.	1-24	25-49
● SPC21219	On-None-Off	WL	0.290"	1	11M0414	3.52	3.29

SPDT — FIG. 1

● SPC21220	On-None-On	WL	0.370"	1	11M0415	4.76	4.45
● SPC21221	On-None-On	PC	0.370"	1	11M0416	4.76	4.45

DPDT — FIG. 2

● SPC21236	On-None-On	WL	0.370"	1	11M0431	6.17	5.76
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† WL = Wire Lug, PC = PC Board; ‡ Bushing: 1 = #10-48 x 0.22"L (34987)

MINIATURE TOGGLE
SWITCHES, PCB MOUNTING
- STANDARD AND SEALED

Features:

- Gold plated contacts for low level switching
- Mounting bracket solders directly to PCB
- Plain bush for easy front panel removal
- Standard series have epoxy terminal seal, compatible with bottom-wash cleaning
- Sealed series are process sealed to withstand machine soldering and pressure wash cleaning

Specifications:

- Mechanical life: 30000 ops
- Contact resistance: <10mR @ 4V dc
- Lever length: 6.46
- Operating temperature: -30°C to +85°C

VERTICAL MOUNTING - STANDARD

Mfg. Part No.	Circuitry	Action	Stock No.	Price Each
● 1MS1T2B4V2RE	SPDT	On-On	98K4968	1.78
● 1MS3T2B4V2RE	SPDT	On-Off-On	98K4979	1.96
● 1MS2T2B4V2RE	SPDT	On-(On)	98K4972	1.85
● 1MS4T2B4V2RE	SPDT	(On)-Off-(On)	98K4984	2.04
● 1MS5T2B4V2RE	SPDT	On-Off-(On)	98K4988	2.04
● 1MD1T2B4V3RE	DPDT	On-On	98K4952	2.11
● 1MD2T2B4V3RE	DPDT	On-(On)	95M0504	1.74
● 1MD4T2B4V3RE	DPDT	(On)-Off-(On)	95M0509	1.97
● 1MD3T2B4V3RE	DPDT	On-Off-On	95M0506	1.84
● 1MD5T2B4V3RE	DPDT	On-Off-(On)	95M0512	2.07
● 1MD6T2B4V3RE	DPDT	On-On-On	95M0515	2.43

HORIZONTAL MOUNTING - STANDARD TYPE 1

● 1MS1T2B4M6RE	SPDT	On-On	98K4966	1.60
● 1MS3T2B4M6RE	SPDT	On-Off-On	98K4977	1.66
● 1MS4T2B4M6RE	SPDT	(On)-Off-(On)	98K4983	1.85
● 1MS2T2B4M6RE	SPDT	On-(On)	95M4610	1.65
● 1MS5T2B4M6RE	SPDT	On-Off-(On)	95M0517	1.81
● 1MD1T2B4M6RE	DPDT	On-On	98K4950	1.85
● 1MD3T2B4M6RE	DPDT	On-Off-On	98K4957	2.23
● 1MD2T2B4M6RE	DPDT	On-(On)	95M0502	1.68
● 1MD4T2B4M6RE	DPDT	(On)-Off-(On)	95M0507	1.90
● 1MD5T2B4M6RE	DPDT	On-Off-(On)	95M0510	2.04
● 1MD6T2B4M6RE	DPDT	On-On-On	95M0513	2.36

HORIZONTAL MOUNTING - STANDARD TYPE 2

● 1MS1T2B4M7RE	SPDT	On-On	98K4967	1.60
● 1MS3T2B4M7RE	SPDT	On-Off-On	98K4978	1.86
● 1MS2T2B4M7RE	SPDT	On-(On)	95M4611	1.65
● 1MS4T2B4M7RE	SPDT	(On)-Off-(On)	95M0516	1.68
● 1MS5T2B4M7RE	SPDT	On-Off-(On)	95M0518	1.81
● 1MD1T2B4M7RE	DPDT	On-On	98K4951	2.00

➔ CONTINUED ➔

SWITCHES – TOGGLE

MINIATURE TOGGLE SWITCHES, PCB MOUNTING - STANDARD AND SEALED (CONT.)

HORIZONTAL MOUNTING - STANDARD TYPE 2

Mfg. Part No.	Circuitry	Action	Stock No.	Price Each
				1-99
● 1MD2T2B4M7RE	DPDT	On-(On)	95M0503	1.68
● 1MD4T2B4M7RE	DPDT	(On)-Off-(On)	95M0508	1.90
● 1MD3T2B4M7RE	DPDT	On-Off-On	95M0505	1.81
● 1MD5T2B4M7RE	DPDT	On-Off-(On)	95M0511	2.04
● 1MD6T2B4M7RE	DPDT	On-On-On	95M0514	2.36

VERTICAL MOUNTING - SEALED

● 1AS1T2B4V2RE	SPDT	On-On	98K4919	2.02
● 1AS2T2B4M2RE	SPDT	On-(On)	95M0492	1.71
● 1AS4T2B4M2RE	SPDT	(On)-Off-(On)	95M0496	1.94
● 1AS3T2B4M2RE	SPDT	On-Off-On	95M0494	1.81
● 1AS5T2B4M2RE	SPDT	On-Off-(On)	95M0499	2.04
● 1AD2T2B4M2RE	DPDT	On-(On)	95M0477	1.87
● 1AD1T2B4M2RE	DPDT	On-On	95M0474	1.77
● 1AD4T2B4M2RE	DPDT	(On)-Off-(On)	95M0483	2.20
● 1AD3T2B4M2RE	DPDT	On-Off-On	95M0480	2.10
● 1AD5T2B4M2RE	DPDT	On-Off-(On)	95M0486	2.24
● 1AD6T2B4M2RE	DPDT	On-On-On	95M0489	2.62

HORIZONTAL MOUNTING TYPE 1 - SEALED

● 1AS1T2B4M6RE	SPDT	On-On	98K4917	2.02
● 1AS3T2B4M6RE	SPDT	On-Off-On	98K4921	2.13
● 1AS2T2B4M6RE	SPDT	On-(On)	98K4920	2.06
● 1AS4T2B4M6RE	SPDT	(On)-Off-(On)	95M0497	2.04
● 1AS5T2B4M6RE	SPDT	On-Off-(On)	95M0500	2.13
● 1AD2T2B4M6RE	DPDT	On-(On)	95M0478	2.04
● 1AD1T2B4M6RE	DPDT	On-On	95M0475	1.94
● 1AD4T2B4M6RE	DPDT	(On)-Off-(On)	95M0484	2.36
● 1AD3T2B4M6RE	DPDT	On-Off-On	95M0481	2.23
● 1AD5T2B4M6RE	DPDT	On-Off-(On)	95M0487	2.39
● 1AD6T2B4M6RE	DPDT	On-On-On	95M0490	2.76

HORIZONTAL MOUNTING TYPE 2 - SEALED

● 1AS1T2B4M7RE	SPDT	On-On	98K4918	2.02
● 1AS2T2B4M7RE	SPDT	On-(On)	95M0493	1.81
● 1AS4T2B4M7RE	SPDT	(On)-Off-(On)	95M0498	2.04
● 1AS3T2B4M7RE	SPDT	On-Off-On	95M0495	1.90
● 1AS5T2B4M7RE	SPDT	On-Off-(On)	95M0501	2.13
● 1AD2T2B4M7RE	DPDT	On-(On)	95M0479	2.04
● 1AD1T2B4M7RE	DPDT	On-On	95M0476	1.94
● 1AD4T2B4M7RE	DPDT	(On)-Off-(On)	95M0485	2.36
● 1AD3T2B4M7RE	DPDT	On-Off-On	95M0482	2.23
● 1AD5T2B4M7RE	DPDT	On-Off-(On)	95M0488	2.39
● 1AD6T2B4M7RE	DPDT	On-On-On	95M0491	2.76

(116509)

MINIATURE SWITCHES, PANEL MOUNTING



Specifications:

- Silver plated contacts: 5A @ 28V dc or 115V ac resistive load, 2A @ 250V ac
- Gold plated contacts: 0.4VA @ 20V max. ac/dc
- Electrical life: 40000 operations
- Contact resistance: <10mR @ 4Vdc 1A
- Bush thread: 1/4" x 40 NS
- Lever length: 10.4
- Operating temperature: -30°C to +85°C

Features:

- Copper alloy contacts, gold or silver plated
- Epoxy sealed terminations

TOGGLE

Mfg. Part No.	Circuitry	Action	Contacts	Stock No.	Price Each
					1-99
● 1MS1T1B1M1QE	SPDT	On-On	Silver	98K4963	1.30
● 1MS1T1B1M1RE	SPDT	On-On	Gold	98K4964	1.43
● 1MS3T1B1M1QE	SPDT	On-Off-On	Silver	98K4974	1.51
● 1MS3T1B1M1RE	SPDT	On-Off-On	Gold	98K4975	1.64
● 1MS4T1B1M1QE	SPDT	(On)-Off-(On)	Silver	98K4981	1.68
● 1MS4T1B1M1RE	SPDT	(On)-Off-(On)	Gold	98K4982	1.81
● 1MS5T1B1M1QE	SPDT	On-Off-(On)	Silver	98K4986	1.60
● 1MS5T1B1M1RE	SPDT	On-Off-(On)	Gold	98K4987	1.73

➔ CONTINUED ➔

MINIATURE SWITCHES, PANEL MOUNTING (CONT.)

Mfg. Part No.	Circuitry	Action	Contacts	Stock No.	Price Each
					1-99
● 1MS2T1B1M1QE	SPDT	On-(On)	Silver	98K4970	1.34
● 1MS2T1B1M1RE	SPDT	On-(On)	Gold	98K4971	1.47
● 1MD1T1B1M1QE	DPDT	On-On	Silver	98K4947	1.47
● 1MD1T1B1M1RE	DPDT	On-On	Gold	98K4948	1.60
● 1MD3T1B1M1QE	DPDT	On-Off-On	Silver	98K4954	1.64
● 1MD3T1B1M1RE	DPDT	On-Off-On	Gold	98K4955	1.77
● 1MD4T1B1M1QE	DPDT	(On)-Off-(On)	Silver	98K4959	1.66
● 1MD4T1B1M1RE	DPDT	(On)-Off-(On)	Gold	98K4960	1.78
● 1MD5T1B1M1QE	DPDT	On-Off-(On)	Silver	98K4961	1.66
● 1MD5T1B1M1RE	DPDT	On-Off-(On)	Gold	98K4962	1.78
● 1MS3T1B1M1QE	3PDT	On-On	Silver	98K4990	2.27
● 1M4T1B1M1QE	4PDT	On-On	Silver	98K4992	2.84

FLAT TOGGLE

● 1MS1T6B11M1QE	SPDT	On-On	Silver	98K4969	1.77
● 1MS3T6B11M1QE	SPDT	On-Off-On	Silver	98K4980	1.74
● 1MS4T6B11M1QE	SPDT	(On)-Off-(On)	Silver	98K4985	2.00
● 1MS5T6B11M1QE	SPDT	On-Off-(On)	Silver	98K4989	2.00
● 1MS2T6B11M1QE	SPDT	On-(On)	Silver	98K4973	1.81
● 1MD1T6B11M1QE	DPDT	On-On	Silver	98K4953	1.78
● 1MD3T6B11M1QE	DPDT	On-Off-On	Silver	98K4958	2.00
● 1MS3T6B11M1QE	3PDT	On-On	Silver	98K4991	2.44
● 1M4T6B11M1QE	4PDT	On-On	Silver	98K4993	3.11

ROCKER (BLACK ROCKER)

● 3MS1R1M1QE	SPDT	On-On	Silver	98K8618	1.61
● 3MD1R1M1QE	DPDT	On-On	Silver	98K8611	1.78

LEVER HANDLE

● 3MS1R2M1QE	SPDT	On-On	Silver	98K8619	1.61
● 3MD1R2M1QE	DPDT	On-On	Silver	98K8612	1.78

(116505)

MINIATURE SWITCHES, PANEL MOUNTING

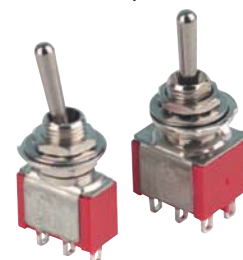


Features:

- Silver plated copper contacts
- Solder tag connections

Specifications:

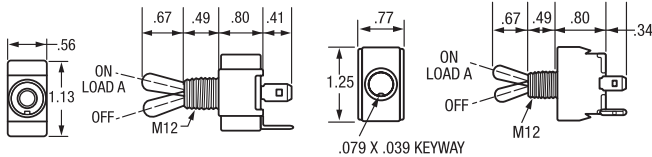
- Electrical life: 40000 ops.
- Contact resistance: <10mR @4V, 100mA
- Operating temperature: -30°C to +85°C
- Bush thread: 1/4" x 40 UNS-2A
- Lever length: 10.25mm
- Panel cut out=6.35, H=12.7, W=6.9mm



7

SWITCHES – TOGGLE • SWITCHES – ACCESSORIES

TOGGLE SWITCHES



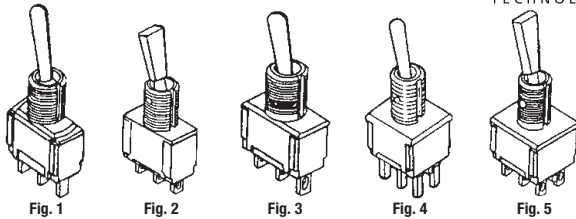
Contact rating: 20A @ 125VAC terminals. Brass terminals. Mounts in a standard 1/2" diameter hole.

METAL CASE

Mfg. Part No.	Circuits	Action	Terminal	Stock No.	Price Each
					1-24
● SPC21157	SPST	On-Off	Flat	11M0351	7.09
● SPC21158	SPDT	On-OFF-On	Flat	11M0352	8.08
● SPC21159	SPST	On-Off	Screw	11M0353	7.09
● SPC21160	SPST	(On)-OFF	Screw	11M0354	7.58
● SPC21161	SPDT	On-On	Screw	11M0355	8.08
● SPC21162	SPDT	On-OFF-On	Screw	11M0356	8.08
● SPC21522	SPST	On-OFF	Regular Solder	11M0718	7.09
● SPC21164	SPDT	On-OFF-On	Regular Solder	11M0358	8.08
● SPC21167	DPDT	On-OFF-On	Flat	11M0361	11.17
● SPC21168	DPST	On-None-OFF	Screw	11M0362	9.40
● SPC21170	DPDT	On-OFF-On	Screw	11M0364	11.17
● SPC21172	DPST	On-None-OFF	Regular Solder	11M0366	9.40

(5158)

TOGGLE SWITCHES



- Rating: 5A @ 120VAC or 28VDC; 2A @ 250VAC
- Operating Temperature: -30°C to +85°C

- UL Listed

Actuator: chrome-plated brass. Bushing: nickel-plated brass. Stainless steel housing. Case rated UL 94V-0. End contacts: silver-plated coin silver. Center contact and terminals: Silver-plated brass, epoxy seal. Hardware: 2 hex nuts, locking ring, lock washer. Panel mounting: Figs. 1 and 2: 0.250" (6.35) diameter hole; Fig. 3: 0.469" (11.91) diameter hole.

SPDT — STANDARD ROUND TOGGLE, 1/4"-40 THREADED 0.350" L BUSHING WITH KEYWAY, WIRE LUG TERMINALS — FIG. 1

Mfg. Part No.	Action	Stock No.	Price Each			
			1-24	25-99	100-249	250-499
● SPC21516	On-None-On	11M0712	3.90	3.33	3.02	2.74
● SPC21256	On-Off-On	11M0451	4.84	4.64	3.58	2.68
● SPC21257	(On)-Off-(On)	11M0452	4.89	4.18	3.79	3.44
● SPC21258	On-Off-(On)	11M0453	5.11	4.37	3.96	3.60
● SPC21259	On-None-On	11M0454	3.90	3.33	3.02	2.74

SPDT — FLAT TOGGLE, 1/4"-40 THREADED 0.350" L BUSHING WITH KEYWAY, WIRE LUG TERMINALS — FIG. 2

Mfg. Part No.	Action	Stock No.	Price Each			
			1-24	25-99	100-249	250-499
● SPC21269	On-None-On	11M0464	5.32	4.55	4.12	3.75
● SPC21271	On-Off-On	11M0466	5.71	4.88	4.43	4.02
● SPC21273	On-Off-(On)	11M0468	6.54	5.58	5.06	4.60

SPDT — LARGE ROUND TOGGLE, 15/32"-32 THREADED 0.448" L BUSHING WITH KEYWAY, WIRE LUG TERMINALS — FIG. 3

Mfg. Part No.	Action	Stock No.	Price Each			
			1-24	25-99	100-249	250-499
● SPC21277	(On)-Off-(On)	11M0472	5.73	5.52	5.30	4.76
● SPC21278	On-Off-(On)	11M0473	6.97	5.95	5.40	4.91

DPDT — STANDARD ROUND TOGGLE, 1/4"-40 THREADED 0.350" L BUSHING WITH KEYWAY, WIRE LUG TERMINALS — FIG. 4

Mfg. Part No.	Action	Stock No.	Price Each			
			1-24	25-99	100-249	250-499
● SPC21284	On-None-On	11M0479	5.37	4.59	4.16	3.78
● SPC21288	On-Off-(On)	11M0483	6.45	5.51	4.99	4.54

DPDT — FLAT TOGGLE, 1/4"-40 THREADED 0.350" L BUSHING WITH KEYWAY, WIRE LUG TERMINALS — FIG. 5

Mfg. Part No.	Action	Stock No.	Price Each			
			1-24	25-99	100-249	250-499
● SPC21299	On-None-On	11M0494	7.10	6.07	5.50	5.00

DPDT — LARGE ROUND TOGGLE, 15/32"-32 THREADED 0.448" L BUSHING WITH KEYWAY, WIRE LUG TERMINALS — FIG. 4

Mfg. Part No.	Action	Stock No.	Price Each			
			1-24	25-99	100-249	250-499
● SPC21304	On-None-On	11M0499	6.80	5.81	5.26	4.78
● SPC21305	On-None-(On)	11M0500	7.14	6.10	5.53	5.03
● SPC21307	(On)-Off-(On)	11M0502	7.40	6.32	5.73	5.21
● SPC21308	On-Off-(On)	11M0503	7.57	6.47	5.87	5.33

➔ CONTINUED ➔

TOGGLE SWITCHES (CONT.)

1P3WAY — STANDARD ROUND TOGGLE, 1/4"-40 THREADED 0.350" L BUSHING WITH KEYWAY, WIRE LUG TERMINALS — FIG. 4

Mfg. Part No.	Action	Stock No.	Price Each			
			1-24	25-99	100-249	250-499
● SPC21314	On-On-On	11M0509	6.71	5.73	5.20	4.72

3PDT — STANDARD ROUND TOGGLE, 1/4"-40 THREADED 0.350" L BUSHING WITH KEYWAY, WIRE LUG TERMINALS

Mfg. Part No.	Action	Stock No.	Price Each			
			1-24	25-99	100-249	250-499
● SPC21317	On-None-On	11M0512	10.95	9.35	8.48	7.71

4PDT — STANDARD ROUND TOGGLE, 1/4"-40 THREADED 0.350" L BUSHING WITH KEYWAY, WIRE LUG TERMINALS

Mfg. Part No.	Action	Stock No.	Price Each			
			1-24	25-99	100-249	250-499
● SPC21322	On-None-On	11M0517	12.01	10.92	9.19	8.33
● SPC21326	On-Off-(On)	11M0521	17.91	15.31	13.87	12.61

(34985)

PUSHBUTTON SWITCH BOOTS



APM HEXSEAL

Silicone rubber boot completely covers actuator. Tolerant to sunlight, weather, salt spray, ozone, most acids/cleaning solvents. Units with "RFI" suffix are EMI-shielded. Meet MIL-B-5423. UL recognized, CSA certified.



N-3030
N-3030RFI
NH-3030
NC-3030
N-5040G/R
1231/8/49
NH3030 RFI
NC3030 RFI



1221/12
1221/15
C1221/21/4
C1221/25
C1221/23



1238-1
(Armored)

Mfg. Part No.	Thread Size	Flats	Plunger Heights	Color	Stock No.	Price Each	
						1-49	50-99
● N3030	1/2"-32NS-2B	0.625"	0.281"	Gray	30F006	3.42	3.16
● N3030 2605	1/2"-32NS-2B	0.625"	0.281"	Green	95B1094	3.44	3.18
● N3030 2619	1/2"-32NS-2B	0.625"	0.281"	Yellow	95B1095	4.07	3.76
● N3030 2508	1/2"-32NS-2B	0.625"	0.281"	Red	95B1096	3.44	3.18
● NC3030	1/2"-32NS-2B	0.625"	0.438"	Gray	30F007	3.42	3.16
● NC3030-4	1/2"-32NS-2B	0.625"	0.438"	Clear	94B4760	4.07	3.76
● NH3030	1/2"-32NS-2B	0.625"	0.281"	Gray	30F008	3.49	3.22
● N5040	1/4"-40NS-2B	0.375"	0.141"	Gray	30F012	4.06	3.74
● N-5040-G	1/4"-32NS-2B	0.375"	0.203"	Gray	30F065	4.06	3.74
● N5040R	1/4"-40NS-2B	0.375"	0.203"	Gray	30F066	4.06	3.74
● 1221/12	3/8"-27NS-2B	0.641"	0.609"	Gray	18C2994	2.30	2.12
● N3030RFI	1/2"-NS-2B	0.625"	0.281"	Gray	97F9122	12.92	11.91
● 1221/15	1/2"-32NS-2B	0.766"	0.400"	Gray	14C7323	2.42	2.23
● C1221/21/4	3/8"-27NS-2B	0.641"	0.330"	Clear	20C7788	2.17	2.00
● C1221/23	3/8"-32NEF-2B	0.641"	0.330"	Clear	20C7789	2.17	2.00
● 1231/8/49	3/8"-27NS-2B	0.500"	0.545"	Clear	14C7327	2.23	2.06
● C1221/25	3/8"-32NS-2B	0.500"	0.545"	Black	20C7790	2.17	2.00
● NC-3030 RFI	1/2"-32NS-2B	0.625"	0.438"	Gray	41F639	12.92	11.91
● NH3030 RFI	1/2"-32NS-2B	0.625"	0.281"	Gray	14C7318	13.85	12.77

ARMORED PUSHBUTTON SWITCH BOOT

Mfg. Part No.	Thread Size	Flats	Plunger Heights	Color	Stock No.	Price Each	
						1-49	50-99
● 1238-1	1/2"-32NS-2B	0.750"	0.438"	Armored	51F3906	8.57	7.91

(5076)

TOGGLE SWITCH BOOTS



APM HEXSEAL



Half-Toggle



Full-Toggle



Armored

Silicone rubber boots contain molded-in hex mounting nut. Units seal both switch and panel-cutout in which switch is mounted. Tolerant to sunlight, weather, salt spray, ozone, most acids/cleaning solvents. Units with RFI suffix are EMI-shielded. UL recognized, CSA certified.

Mfg. Part No.	Thread Size	Throat Size (I.D.)	Height	Color	Stock No.	Price Each	
						1-49	50-99
● N1030	1/2"-32NS-2B	0.219"	0.844"	Gray	30F000	3.42	3.16
● N1030 2504	1/2"-32NS-2B	0.219"	0.844"	Green	95B1097	4.08	3.77
● N1030 2503	1/2"-32NS-2B	0.219"	0.844"	Yellow	95B1098	4.08	3.77
● N1030 2508	1/2"-32NS-2B	0.219"	0.844"	Red	95B1099	4.08	3.77
● N1030A†	1/2"-32NS-2B	0.219"	0.875"	Gray Cap*	30F001	7.49	6.91
● N1030B††	1/2"-32NS-2B	0.078"	0.437"	Gray	30F002	3.42	3.15
● N5030	1/4"-40NS-2B	0.104"	0.422"	Gray	30F011	4.06	3.74
● N5030L	1/4"-40NS-2B	0.062"	0.500"	Gray	30F005	4.06	3.74

➔ CONTINUED ➔

SWITCHES – ACCESSORIES

TOGGLE SWITCH BOOTS (CONT.)

Mfg. Part No.	Thread Size	Throat Size (L.D.)	Height	Color	Stock No.	Price Each	
						1-49	50-99
● N5032B††	1/4-40NS-2B	0.047"	0.250"	Gray	30F003	4.06	3.74
● C1131/27	15/32-32NS-2B	0.219"	0.937"	Black	83F8121	3.18	2.94
● C1131/28	15/32-32NS-2B	0.219"	0.937"	Black	16F4923	3.03	2.80
● 50154	15/32-32NS-2B	0.280"	1.094"	Gray	31C1093	3.42	3.16
● 1131/26 2501	15/32-32NS-2B	0.219"	1.093"	Gray	90B0141	3.59	3.31
● N5030S	1/4-40NS-2B	0.062"	0.594"	Gray	14C7320	4.06	3.74
● IN1030RFI	15/32-32NS-2B	0.219"	0.844"	Gray	97F9121	12.92	11.91
● IN1030 RFI 1/2-32	1/2-32NS-2B	0.219"	0.844"	Gray	14C7317	15.37	14.18
● N5030L RFI	1/4-40NS-2B	0.062"	0.500"	Gray	14C7319	12.92	11.91
● N5030S RFI	1/4-40NS-2B	0.062"	0.594"	Gray	14C7321	12.92	11.91
● N5030LBLACK	1/4-40NS-2B	0.062"	0.500"	Black	36H4783	4.82	4.45
● N5030LYELLOW	1/4-40NS-2B	0.062"	0.500"	Yellow	36H4784	4.82	4.45
● N5030LRED	1/4-40NS-2B	0.062"	0.500"	Red	90B6214	4.82	4.45
● N5030R	1/4-40NS-2B	0.104"	0.310"	Gray	26H0552	4.06	3.74

*Nickel-plated brass; † Armored; †† Half-Toggle (5077)

ROTARY SHAFT SEALS



APM HEXSEAL

For standard rotary switch/potentiometer shafts passing through panel cutouts or housings. Seal both shaft and panel cutout. Silicone rubber is tolerant to sunlight, weather, salt spray, ozone, most acids/cleaning solvents. "RFI suffix" in mfg. part no. indicates seals are EMI-shielded. Meet MIL-B-5423. UL recognized, CSA certified.



Mfg. Part No.	Thread Size	Max. Shaft Size	Hex Nut Flat	Color	Stock No.	Price Each	
						1-49	50-99
● N9030X18	3/8-32NEF-2B	0.125"	0.500"	Gray	49H7681	3.68	3.31
● N9030 X 1/4	3/8-32NEF-2B	0.250"	0.500"	Gray	30F013	3.68	3.31
● N9030X1/4RFI	3/8-32NEF-2B	0.250"	0.500"	Gray	97F9123	12.59	11.31
● N9040 X 1/8	1/4-32NEF-2B	0.125"	0.375"	Gray	30F014	3.67	3.30
● N9040 X 1/8 RFI	1/4-32NEF-2B	0.125"	0.375"	Gray	14C7322	16.05	14.42
● N9042 X 1/8	1/4-32NEF-2B	0.125"	0.500"	Gray	92B2259	3.67	3.30

(55370)

SEALED-SWITCH BUSHING SEAL



APM HEXSEAL

Self-sealing washer for use with standard panel mount, internally-sealed switches having 15/32-32 threaded bushings. Use for behind panel mounting. Seals panel cutout through which the switch bushing passes. Silicone rubber is tolerant of sunlight, ozone, weather, salt spray, and most acids/cleaning solvents. Meets military specification MIL-B-5423.



Mfg. Part No.	Compatible Switch Bushing	Washer Diameter	Washer Thickness	Color	Stock No.	Price Each	
						1-49	50-99
● 60064	15/32-32	0.677"	0.120"	Gray	31C1094	3.18	2.87

(68219)

EH SERIES ABS KNOBS



EH71-0 SERIES 0.500" (12.70) DIAMETER FOR 0.125" (3.18) SHAFTS

Mfg. Part No.	Description	Fig.	Stock No.	Price Each
				1-49
● EH71-0N1S	Round	1	95F6979	2.47
● EH71-0C1S	Round with Line	2	95F6980	2.60

➔ CONTINUED ➔

EH SERIES ABS KNOBS (CONT.)

Mfg. Part No.	Description	Fig.	Stock No.	Price Each
				1-49
● EH710D1S	Ring-Skirted	3	95F6981	2.47
● EH71-0E1S	Ring-Skirted with Line	4	95F6982	2.60
● EH71-0F1S	Dial with Arrow	5	95F6983	3.91
● EH71-0P1S	Pointer	6	95F6984	2.72
● EH71-0K1S	Ring-Skirted Pointer	7	95F6985	2.72
● EH710NP1S	Round with Pointer	12	95F6986	2.72

EH71-1 SERIES 0.700" (17.78) DIAMETER FOR 0.250" (6.35) SHAFTS

● EH71-1N2S	Round	1	95F6987	2.60
● EH71-1C2S	Round with Line	2	95F6988	2.69
● EH71-1D2S	Ring-Skirted	3	95F6989	2.60
● EH71-1E2S	Ring-Skirted with Line	4	95F6990	2.69
● EH71-1F2S	Dial with Arrow	5	95F6991	2.69
● EH71-1P2S	Pointer	6	95F6992	2.81
● EH71-1K2S	Ring-Skirted Pointer	7	95F6993	2.81
● EH71-1SB2S	Single Bar	8	95F6994	2.85
● EH71-1DSB2S	Ring-Skirted Single Bar	9	95F6995	3.15
● EH71-1GG2S	Double Bar	10	95F6996	3.06
● EH71-1HH2S	Ring-Skirted Double Bar	11	95F6997	3.06
● EH71-1NP2S	Round with Pointer	12	95F6998	2.81

EH71-2 SERIES 0.900" (22.86) DIAMETER FOR 0.250" (6.35) SHAFTS

● EH71-2N2S	Round	1	95F6999	2.83
● EH71-2C2S	Round with Line	2	95F7000	2.92
● EH71-2F2S	Dial with Arrow	5	95F7003	4.34
● EH71-2P2S	Pointer	6	95F7004	3.06
● EH71-2GG2S	Double Bar	10	95F7008	3.17

EH71-3 SERIES 1.250" (31.75) DIAMETER FOR 0.250" (6.35) SHAFTS

● EH71-3N2S	Round	1	95F7011	2.96
● EH71-3C2S	Round with Line	2	95F7012	3.08
● EH71-3F2S	Dial with Arrow	5	95F7015	4.50

EH71-4 SERIES 1.750" (44.45) DIAMETER FOR 0.250" (6.35) SHAFTS

● EH71-4N2S	Round	1	95F7016	3.33
● EH71-4C2S	Round with Line	2	95F7017	3.42
● EH71-4E2S	Ring-Skirted with Line	4	95F7019	3.42

(5213)

SHAFT LOCKS



AMERICA'S LARGEST SELECTION OF KNOBS FOR OVER 45 YEARS

Prevent control shaft from rotating under shock, vibration, or accidental contact. Tapered nylon collar grips control shaft tightly and exerts even, frictional drag. All are shaft-type locks except SL-110B. Mfg. part no. SL-110B is a knob-type lock, and should be used with 90 series or larger knobs. Mfg. part no. SL-105B has a shaft diameter of 1/8"; all others 1/4". Mount in place of nut and washer on most potentiometers.



Shaft Lock



Knob Lock

Mfg. Part No.	Thread NEF2	Stock No.	Price Each	
			1-9	10-24
● SL-100B	3/8-32	26F314	3.58	3.40
● SL101R	3/8-32	26F937	6.92	6.57
● SL-105B	1/4-32	26F315	3.58	3.40
● SL110B	3/8-32	26F938	3.32	3.15

(5255)

KNOB LOCKS



AMERICA'S LARGEST SELECTION OF KNOBS FOR OVER 45 YEARS

Hold precise, critical control settings under shock or vibration. Mount directly on threaded bushing, replacing nuts and washers. 1/2 turn of skirt locks shaft. A suffix of G in the mfg. part no. indicates a matte finish; others have a mirror finish. Can be used with 70, 90 or 125 series unskirted round knobs; order separately on page 1821.



Mfg. Part No.	Fits Series	Dia.	Stock No.	Price Each
				1-9
● KL701	70	1.000"	26F308	9.90
● KL701G	70	1.000"	26F309	6.43
● KL901	90	1.313"	26F310	11.80
● KL901G	90	1.313"	26F311	12.09

➔ CONTINUED ➔

SWITCHES – ACCESSORIES

KNOB LOCKS (CONT.)

Mfg. Part No.	Fits Series	Dia.	Stock No.	Price Each
● KL1251	125	1.625"	26F312	13.36
● KL1251G	125	1.625"	26F313	13.72

(5253)

3000 SERIES
FINE KNURL
INSTRUMENT KNOBSAMERICA'S LARGEST
SELECTION OF KNOBS
FOR OVER 45 YEARS

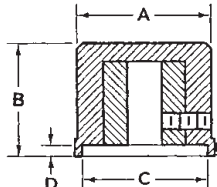
ELECTRONIC HARDWARE CORPORATION



Fig. 1



Fig. 2



3000 series ABS very fine knurl plastic knob was designed for high quality instrument requirements. Nickel-plated insert, two set screws and a black matte finish.

Mfg. Part No.	Fig.	Dimensions (in.)						Price Each
		A dia.	B dia.	C dia.	D dia.	Shaft	Stock No.	
● 3008-1-B	1	0.500	0.625	0.430	0.070	0.125	91F2233	3.23
● 3008-2-B	1	0.500	0.625	0.430	0.070	0.250	91F2234	3.23
● 3440-1-B	2	0.500	0.625	0.430	0.070	0.125	91F2235	3.68
● 3440-2-B	2	0.500	0.625	0.430	0.070	0.250	91F2236	3.68
● 3489-1-B	2	0.720	0.620	0.625	0.030	0.125	91F2239	3.80
● 3489-2-B	2	0.720	0.620	0.625	0.030	0.250	91F2240	3.80
● 3009-2-B	1	0.850	0.600	0.680	0.125	0.250	91F2242	3.68
● 3441-1-B	2	0.850	0.600	0.680	0.125	0.125	91F2243	4.28
● 3441-2-B	2	0.850	0.600	0.680	0.125	0.250	91F2244	4.28
● 3010-1-B	1	0.975	0.750	0.810	0.225	0.125	91F2245	3.85
● 3010-2-B	1	0.975	0.750	0.810	0.225	0.250	91F2246	3.85
● 3442-2-B	2	0.975	0.750	0.810	0.225	0.250	91F2248	4.48

(13145)

400 SERIES
CONTROL KNOBSAMERICA'S LARGEST
SELECTION OF KNOBS
FOR OVER 45 YEARS

ELECTRONIC HARDWARE CORPORATION



Fig. 1



Fig. 2



Fig. 3



Fig. 4

High-impact acrylonitrile-styrene (ABS), with lusterless black finish. Supplied with metal bushings and two set screws.

407 SERIES 0.72" DIAMETER 1/4" SHAFTS

Mfg. Part No.	Fig.	Stock No.	Price Each
● 407D1B	3	34C9067	4.33

407 SERIES 0.72" DIAMETER 1/4" SHAFTS

● 407D2B	3	34C9068	4.33
● 407PD2B	2	34C9069	4.82
● 407R2B	4	40C2144	2.75

409 SERIES 0.875" DIAMETER 1/4" SHAFTS

● 409D2B	3	34C9070	4.59
● 409P2B	1	26C9858	3.27
● 409PD2B	2	30C9114	4.59
● 409R2B	4	34C9071	3.01

412 SERIES 1.25" DIAMETER 1/4" SHAFTS

● 412D2B	3	34C9072	4.73
● 412P2B	1	34C9073	3.98

(5254)

MACHINED
ALUMINUM
KNOBS

Just Added



ELECTRONIC HARDWARE CORPORATION

AMERICA'S LARGEST
SELECTION OF KNOBS
FOR OVER 45 YEARS

PB



PVL



PVS



PKP



PV

SKIRTED ROUND — LINE ON TOP AND SIDE

Mfg. Part No.	Diameter (in.)	Finish	Shaft Size (in.)	2 Set Screws	Stock No.	Price Each
● PVL-12A-1	0.500	Natural	1/8	6-32	88H1833	6.67
● PVL-12A-2	0.500	Natural	1/4	6-32	88H1834	6.67
● PVL-12B-1	0.500	Black	1/8	6-32	08C4741	7.99
● PVL-12B-2	0.500	Black	1/4	6-32	37C4815	6.82
● PVL-19A-1	0.750	Natural	1/8	6-32	88H1835	8.30
● PVL-19A-2	0.750	Natural	1/4	6-32	88H1836	8.70
● PVL-19B-1	0.750	Black	1/8	6-32	88H1837	3.37
● PVL-19B-2	0.750	Black	1/4	6-32	37C4813	8.54
● PVL-25A-2	0.937	Natural	1/4	6-32	46M5650	9.21
● PVL-25B-2	0.937	Black	1/4	6-32	28M3353	9.87
● PVL-32A-2	1.250	Natural	1/4	6-32	73P9838	5.07
● PVL-32B-2	1.250	Black	1/4	6-32	73K0436	8.68

ROUND WITH DIAL — TWO-TONE

● PVS-12A-1	0.500	Natural	1/8	6-32	88H1838	10.93
● PVS-12A-2	0.500	Natural	1/4	6-32	88H1839	5.48
● PVS-12B-1	0.500	Black	1/8	6-32	88H1840	10.23
● PVS-12B-2	0.500	Black	1/4	6-32	88H1841	10.74
● PVS-19A-1	0.750	Natural	1/8	6-32	88H1842	6.98
● PVS-19A-2	0.750	Natural	1/4	6-32	88H1843	6.98
● PVS-19B-1	0.750	Black	1/8	6-32	88H1844	6.60
● PVS-19B-2	0.750	Black	1/4	6-32	30C3103	11.74
● PVS-25B-2	0.937	Black	1/4	6-32	39M5557	6.58

POINTER

● PKP-12A-1	0.500	Natural	1/8	6-32	88H1820	14.82
● PKP-12A-2	0.500	Natural	1/4	6-32	88H1821	14.82
● PKP-12B-1	0.500	Black	1/8	6-32	88H1822	14.73
● PKP-12B-2	0.500	Black	1/4	6-32	88H1823	14.73
● PKP-19A-1	0.750	Natural	1/8	6-32	88H1824	8.97
● PKP-19A-2	0.750	Natural	1/4	6-32	88H1825	15.97
● PKP-19B-1	0.750	Black	1/8	6-32	88H1826	15.83
● PKP-19B-2	0.750	Black	1/4	6-32	02E1984	15.83
● PKP-25A-2	0.937	Natural	1/8	6-32	73P9836	10.16
● PKP-25B-2	0.937	Black	1/8	6-32	73P9837	10.16

LINE ON SIDE OF KNOB

● PV-12A-1	0.500	Natural	1/8	6-32	88H1827	3.83
● PV-12B-1	0.500	Black	1/8	6-32	88H1828	6.60
● PV-19A-2	0.750	Natural	1/4	6-32	88H1829	4.45
● PV-19B-2	0.750	Black	1/4	6-32	88H1830	8.42
● PV-25A-2	0.937	Natural	1/4	6-32	88H1831	3.09
● PV-25B-2	0.937	Black	1/4	6-32	88H1832	10.52
● PV-32B-2	1.250	Black	1/4	6-32	39C3232	6.58

LINE ON TOP OF KNOB

● PB-12A-1	0.500	Natural	1/8	6-32	88H1814	6.55
● PB-12B-1	0.500	Black	1/8	6-32	88H1815	7.37
● PB-19A-2	0.750	Natural	1/4	6-32	88H1816	7.89
● PB-19B-2	0.750	Black	1/4	6-32	88H1817	8.46
● PB-25A-2	0.937	Natural	1/4	6-32	88H1818	10.35
● PB-25B-2	0.937	Black	1/4	6-32	88H1819	10.35

(77807)

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(148843)

SWITCHES – ACCESSORIES

MS91528
STYLE BLACK
KNOBS

EHC AMERICA'S LARGEST
SELECTION OF KNOBS
FOR OVER 45 YEARS
ELECTRONIC HARDWARE CORPORATION



Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8

High-impact polycarbonate with corrosion-resistant nickel-plated brass inserts and 2 steel set screws. Suffix "S" indicates black knob with gloss finish. Suffix "B" indicates black knob with matte finish. Order optional knob lock for 70, 90 and 125 series separately on pages 1819-1820.

0.50" DIAMETER FOR 1/8" SHAFT

Mfg. Part No.	Description	Fig.	Stock No.	Price Each
MS91528-0N1S	Unskirted	1	98B9786	3.54
MS91528-0N1B	Unskirted	1	98B9785	3.54
MS91528-0D1S	Ring-Skirted	2	98B9784	3.54
MS91528-0D1B	Ring-Skirted	2	98B9783	3.54
MS91528-0F1B	Dial-Skirted with Arrow	3	13C3046	4.73
MS91528-0K1B	Pointer Skirted	5	25C7404	20.41

0.70" DIAMETER FOR 1/8" SHAFT

MS91528-1D1B	Ring-Skirted Without Dot	2	98B9789	3.63
MS91528-1F1B	Dial-Skirted With Arrow	3	98B9791	4.82
MS91528-1P1B	Pointer	4	98B9799	3.84
MS91528-1K1S	Skirted Pointer	5	98B9795	3.89
MS91528-1K1B	Skirted Pointer	5	98B9794	3.89

0.70" DIAMETER FOR 1/4" SHAFT

MS91528-1N2S	Round Without Dot	1	98B9798	3.58
MS91528-1N2B	Round Without Dot	1	98B9797	3.75
MS91528-1D2S	Ring-Skirted Without Dot	2	98B9790	3.65
MS91528-1D2B	Ring-Skirted Without Dot	2	36C2687	3.75
MS91528-1F2S	Dial-Skirted With Arrow	3	98B9793	4.85
MS91528-1F2B	Dial-Skirted With Arrow	3	98B9792	4.85
MS91528-1P2S	Pointer	4	98B9801	3.87
MS91528-1P2B	Pointer	4	98B9800	3.87
MS91528-1K2B	Ring-Skirted Pointer	5	88F4325	21.02
MS91528-1K2S	Ring-Skirted Pointer	5	98B9796	3.89
MS91528-1B2S	Dial-Skirted Bar Pointer	7	98B9788	5.57
MS91528-1B2B	Dial-Skirted Bar Pointer	7	98B9787	5.57
MS91528-1E2B	Round Skirted With Indicator Dot	...	50B6899	19.78

0.90" DIAMETER FOR 1/4" SHAFT

MS91528-2N2B	Round Without Dot	1	98B9804	3.75
MS91528-2D2B	Ring-Skirted Without Dot	2	98B9802	3.87
MS91528-2F2B	Dial-Skirted With Arrow	3	88F4383	4.96
MS91528-2P2B	Pointer	4	98B9805	4.01
MS91528-2K2B	Ring-Skirted Pointer	5	98B9803	4.03
MS91528-2E2B	Round Skirted With Indicator Dot	...	88F1283	21.51

SERIES 1.25" DIAMETER FOR 1/4" SHAFT

MS91528-3F2B	Dial-Skirted With Arrow	3	99B1590	5.18
MS91528-3R2B	Long Bar Pointer	8	51B1016	8.24

1.75" DIAMETER FOR 1/4" SHAFT

MS91528-4F2B	Dial-Skirted With Arrow	3	98B9806	6.67
MS91528-4S2B	Spinner	6	99B1591	101.86

(47481)

TRANSILLUMINATED
BACKLIGHTED
KNOBS

EHC AMERICA'S LARGEST
SELECTION OF KNOBS
FOR OVER 45 YEARS
ELECTRONIC HARDWARE CORPORATION



Fig. 1



Fig. 2



Fig. 3



Fig. 4

- Military approved
- MS51021 style set screws

- D flatted shaft

Mfg. Part No.	Fig.	Shaft Diameter (in)	Color	Base Diameter (in)	Stock No.	Price Each	
PR2460-02BA1	1	0.125	Black	0.88	39M3643	20.95	15.71
PR2460-02GA2	1	0.125	Gray	0.88	39M3644	24.30	18.22
PR2460-04BA1	1	0.250	Black	0.88	39M3645	20.95	15.71
PR2460-04GA2	1	0.250	Gray	0.88	39M3646	24.30	18.22
RE2380-02BA1	2	0.125	Black	0.50	39M3647	20.95	15.71
RE2380-02GA2	2	0.125	Gray	0.50	39M3648	24.30	18.22
RE2380-04BA1	2	0.250	Black	0.50	39M3649	20.95	15.71
RE2380-04GA2	2	0.250	Gray	0.50	39M3650	24.30	18.22
TS3750-02BA1	3	0.125	Black	0.62	39M3651	20.95	15.71
TS3750-02GA2	3	0.125	Gray	0.62	39M3652	24.30	18.22
TS3750-04BA1	3	0.250	Black	0.62	39M3653	22.40	16.80
TS3750-04GA2	3	0.250	Gray	0.62	39M3654	24.30	18.22
TS3770-02BA1	4	0.125	Black	0.62	39M3655	20.95	15.71
TS3770-02GA2	4	0.125	Gray	0.62	39M3656	24.30	18.22
TS3770-04BA1	4	0.250	Black	0.62	39M3657	20.95	15.71
TS3770-04GA2	4	0.250	Gray	0.62	39M3658	24.30	18.22

(90824)

SELF-LOCKING
PUSH-TO-ENGAGE
KNOBS

EHC AMERICA'S LARGEST
SELECTION OF KNOBS
FOR OVER 45 YEARS
ELECTRONIC HARDWARE CORPORATION

Designed for applications in which control setting must be maintained under conditions of shock and vibration. Setting can't be changed accidentally, since knobs must be depressed before movement.



PTE 70 SERIES FOR 1/4" (6.35) SHAFT

Mfg. Part No.	Description	Stock No.	Price Each	
PTE70-2-2G	Ring-skirted, Matte	95F6976	19.06	17.67
PTE70-3-2G	Dial-skirted with Arrow, Matte	95F6978	24.98	23.15

(5212)

INSTRUMENTATION
KNOBS

KEYSTONE ELECTRONICS CORP.



Fig. 1



Fig. 2



Fig. 3

- Material: ABS with Aluminum Inlay

SKIRTED ROUND INSTRUMENTATION KNOBS — FIG. 1

Mfg. Part No.	Knob Diameter	Shaft Diameter	Screw Size	Hole Depth	Stock No.	Price Each
8554	0.500"	0.125	4-40	0.405"	01C6590	5.40
8555	0.700"	0.25	4-40	0.405"	65H7867	5.59

ROUND WITH DIAL INSTRUMENTATION KNOBS — FIG. 2

8558	0.500"	0.125	4-40	0.405"	86C7260	6.76
------	--------	-------	------	--------	---------	------

SINGLE BAR INSTRUMENTATION KNOBS — FIG. 3

8567	0.500"	0.125	4-40	0.405"	51B262	8.12
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(78697)

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(148886)

SWITCHES – ACCESSORIES

ANODIZED ALUMINUM KNOBS



KB-500



KD-500



KFS-400



KN-900



KLN



KN-1751



KS-500



KPN

Mfg. part no. suffix = shaft diameter in inches.

KNOBS

Mfg. Part No.	Diameter	Height	Stock No.	Price Each	
				1-24	25-49
● KB-500A-1/8	0.500"	0.787"	57F2321	12.95	11.71
● KB-500B-1/8	0.500"	0.787"	57F2323	9.55	8.70
● KB-500A-1/4	0.500"	0.787"	57F2322	18.37	16.60
● KB-500B-1/4	0.500"	0.787"	57F2419	7.73	6.96
● KD-500A-1/8	0.500"	0.630"	61F1172	10.39	9.39
● KD-500B-1/8	0.500"	0.630"	57F2423	5.91	5.38
● KD-500A-1/4	0.500"	0.630"	61F1171	9.91	8.96
● KD-500B-1/4	0.500"	0.630"	57F2284	7.44	6.73
● KD-700A-1/4	0.750"	0.630"	61F1173	7.88	7.12
● KD-700B-1/4	0.750"	0.630"	57F2285	6.48	5.83
● KD-900A-1/4	0.940"	0.630"	61F1174	10.40	9.40
● KD-1250A-1/4	1.250"	0.750"	61F1175	19.35	18.38
● KD-1250B-1/4	1.250"	0.750"	57F2286	17.37	15.70
● KFS-400B-1/8	0.500"	0.590"	44F1941	9.28	8.43
● KFS-500B-1/4	0.630"	0.630"	44F1942	9.62	8.69
● KFS-600B-1/4	1.000"	0.810"	44F1943	15.16	13.70
● KLN-500A-1/8	0.500"	0.625"	77B7780	7.94	7.21
● KLN-500B-1/8	0.500"	0.625"	77B7781	7.77	7.35
● KLN-700A-1/4	0.740"	0.625"	20F949	8.43	7.73
● KLN-700B-1/4	0.740"	0.625"	20F950	7.28	6.55
● KLN-900B-1/4	0.937"	0.625"	20F952	8.66	7.79
● KLN-1250A-1/4	1.250"	0.625"	20F953	12.70	11.29
● KLN-1250B-1/4	1.250"	0.625"	20F954	14.10	12.83
● KN500A-1/8	0.500"	0.625"	61F1177	5.49	5.00
● KN-500B-1/8	0.500"	0.625"	57F2287	6.10	5.50
● KN500A-1/4	0.500"	0.625"	61F1176	9.68	8.75
● KN-500B-1/4	0.500"	0.625"	57F2288	7.68	6.99
● KN-501BA-1/8	0.500"	0.625"	57F2307	5.50	5.00
● KN-501BA-1/4	0.500"	0.625"	57F2418	6.51	5.89
● KN-700A-1/4	0.750"	0.625"	61F1178	6.22	5.65
● KN-700B-1/4	0.750"	0.625"	57F2289	9.70	8.83
● KN-700BA-1/4	0.750"	0.625"	57F2413	11.28	10.19
● KN-900A-1/4	0.949"	0.625"	61F1179	13.99	12.65
● KN-900AB-1/4	0.949"	0.625"	61F1183	12.93	11.68
● KN-900B-1/4	0.949"	0.625"	57F2290	11.11	10.10
● KN-900BA-1/4	0.949"	0.625"	57F2300	10.40	9.40
● KN-1250A-1/4	1.250"	0.625"	61F1180	15.02	13.65
● KN-1250B-1/4	1.250"	0.625"	57F2292	15.02	13.65
● KN-1251B-1/4	1.250"	0.625"	57F2411	12.93	11.76
● KN-1751AS-1/4	1.750"	0.620"	57F2295	32.12	29.20
● KN-1751BS-1/4	1.750"	0.620"	57F2296	26.71	24.28
● KN-5700B-1/4	0.750"	0.625"	57F2306	15.34	13.92
● KNS-501BA-1/8	0.750"	0.625"	57F2310	12.16	11.06
● KNS-501BA-1/4	0.750"	0.625"	57F2311	12.15	11.05
● KNS-701BA-1/4	0.750"	0.625"	57F2312	13.60	12.38
● KNSL500B1/8	0.500"	0.625"	25C3991	10.98	9.79
● KPN-500B-1/8	0.500"	0.625"	77B7812	16.34	14.85
● KPN-500A-1/4	0.500"	0.625"	57F2313	22.09	19.96
● KPN-500B-1/4	0.500"	0.625"	57F2314	14.99	14.39
● KPN-700A-1/4	0.750"	0.625"	57F2315	22.31	20.17
● KPN-700B-1/4	0.750"	0.625"	57F2316	13.94	12.68
● KPN-900A-1/4	0.937"	0.625"	77B7815	24.60	22.24
● KPN-900B-1/4	0.937"	0.625"	57F2319	19.52	17.75
● KS-500A-1/8	0.750"	0.620"	57F2272	14.85	13.42

▶ CONTINUED ▶

ANODIZED ALUMINUM KNOBS (CONT.)

Mfg. Part No.	Diameter	Height	Stock No.	Price Each	
				1-24	25-49
● KS-500B-1/8	0.750"	0.620"	57F2273	14.85	13.42
● KS-500A-1/4	0.750"	0.620"	61F920	14.85	13.42
● KS-500B-1/4	0.750"	0.620"	61F921	9.83	8.89
● KS-700B-1/4	1.120"	0.620"	61F942	14.10	12.75

(5211)

PLASTIC KNOBS WITH ALUMINUM INLAYS



PKG-40B



PKG-90



PKG-100B



PKE-60B



PKG-70B



PKES



PKA



PKB



PKD-60B



PKS-1106B



PKS-90B



PKF

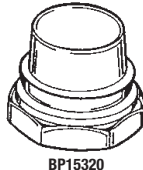


PK-50B

Mfg. Part No.	Diameter	Height	Stock No.	Price Each	
				1-24	25-49
● PK-50B-1/8	0.748"	0.550"	57F2333	1.76	
● PK-50B-1/4	0.748"	0.590"	57F2334	1.84	
● PK-70B-1/4	0.984"	0.590"	57F2335	2.88	
● PK-90B-1/4	0.125"	0.595"	57F2336	2.11	
● PK-1100B-1/4	0.700"	0.530"	57F2354	2.28	
● PKG-40B-1/8	0.437"	0.472"	57F2368	1.60	
● PKG-50B-1/4	0.551"	0.512"	57F2370	2.66	
● PKG-50B-1/8	0.551"	0.512"	57F2369	2.06	
● PKG70B1/8	0.74"	0.559"	14H7710	4.50	
● PKG-70B-1/4	0.740"	0.559"	57F2371	4.96	
● PKG-90B-1/4	0.862"	0.550"	44F1944	3.58	
● PKG-100B-1/4	1.055"	0.550"	57F2372	3.99	
● PKGP-70B-1/4	0.740"	0.550"	57F2374	4.64	
● PKE-60B-1/4	0.626"	0.472"	57F2343	3.22	
● PKE-90B-1/4	0.890"	0.512"	57F2344	3.21	
● PKES-60B-1/4	0.748"	0.470"	57F2346	2.09	
● PKES-60B-1/8	0.748"	0.470"	57F2345	2.09	
● PKES-70B-1/4	0.855"	0.526"	57F2347	2.89	
● PKES-90B-1/4	1.012"	0.570"	57F2348	2.96	
● PKES-120B-1/4	1.296"	0.628"	57F2349	2.98	
● PKA-50B-1/4	0.795"	0.590"	57F2357	1.68	
● PKA-50B-1/8	0.795"	0.590"	57F2356	1.68	
● PKA-70B-1/4	0.980"	0.750"	57F2358	2.83	
● PKA-90B-1/4	1.380"	0.840"	57F2359	4.26	
● PKAP-70B-1/4	0.976"	0.748"	57F2360	5.09	
● PKB-70B-1/4	1.120"	0.600"	57F2341	3.17	
● PKB-90B-1/4	1.500"	0.820"	57F2342	5.16	
● PKD-60B-1/4	0.800"	0.520"	57F2337	3.02	
● PKD-70B-1/4	1.020"	0.610"	57F2338	2.82	
● PKD-60B-10-1/8	0.800"	0.520"	57F2339	4.54	
● PKD-70B-10-1/4	1.020"	0.610"	57F2340	2.65	
● PKS-1104B-1/4	1.120"	0.670"	57F2364	4.09	
● PKS-1103B-10-1/4	1.165"	0.670"	57F2365	3.06	
● PKS-1106B-1/4	1.170"	0.670"	57F2366	5.42	
● PKS-1105B-10-1/4	1.170"	0.670"	57F2367	5.41	
● PKS-90B-1/4	1.420"	0.596"	57F2362	3.87	
● PKS-90B-10-1/4	1.420"	0.596"	57F2363	4.67	
● PKF-50B-1/8	0.670"	0.650"	57F2424	4.03	

(5250)

SWITCHES – ACCESSORIES • SENSORS – AIRFLOW

SPLASHPROOF
TOGGLE AND
PUSHBUTTON
SWITCH SEALS

BP15320

For toggle, pushbutton switching applications. Protect against contaminants such as dirt, dust, gas, liquids. Sealing boots are flexible black neoprene. Mfg. part no. BP5890 mount color is nickel. Mfg. part no. BP5900 mount color is black.

Tyco
Electronics



Mfg. Part No.	Thread Size	Use With Series:	Stock No.	Price Each			
				1-9	10-24	25-49	50-99
● B1048004	10-48	TT	12M5966	5.83	5.17	4.70	4.52
● BP1048004	10-48	TP	14M4319	5.83	5.17	4.70	4.52
● BPA1440004	...	...	39M3352	3.85	3.50	3.20	2.96
● BP1532004	15/32-32	MPG, MSPF	42M1199	3.60	3.24	2.95	2.70
● B1532004	15/32-32	...	22M4844	6.73	5.97	5.43	5.21
● BPT1532004	15/32-32	TPF	23M1147	5.83	5.30	4.82	4.57
● BPM1532004	15/32-32	MPA	35M3621	5.50	5.23	4.94	4.68

(4930)

ALUMINUM SWITCH
PLATES AND NUTS

SPA-42



10264-00-120

Tyco
Electronics

ON/OFF SWITCH PLATES

Mfg. Part No.	Dimensions	Stock No.	Price Each			
			1-24	25-49	50-99	100-249
● SPA-42	1.125"L x 0.680W, 0.469" dia.	77B8956	2.98	2.71	2.47	2.26
● SPA-32	0.880"L x 0.375W, 0.250" dia.	77B8952	1.90	1.79	1.63	1.53

BRIGHT NICKEL FINISH SWITCH NUTS

Mfg. Part No.	Description	Stock No.	Price Each			
			1-24	25-49	50-99	100-249
● N1-AG	1/4-40 Knurled nut	61F913	0.48	0.45	0.41	0.39
● 10264-00-120	1/4-40 Hex Nut	61J4556	0.32	0.30	0.27	0.26

(4932)

PLASTIC KNOBS

Knobs feature durable ABS plastic cover with light decorative top, metal insert, and 2 setscrews. All knobs listed have a 0.250" (6.4) diameter shaft. Color: black.



SPC multicomp



Mfg. Part No.	Diameter	Height	Stock No.	Price Each
				1-49
● MC21050	0.78"	0.48"	10M7568	0.98
● MC21051	1.05"	0.63"	10M7569	1.18
● MC21052	1.30"	0.65"	10M7570	1.37
● MC21053	1.80"	0.80"	10M7571	1.77

(13458)

AWM SERIES HIGH-FLOW
MASS AIRFLOW SENSOR

Honeywell
Sensing and Control

- 200 SLPM Flow Range
- 8-15VDC Excitation Voltage, 60mW Power Consumption
- 5VDC Ratiometric Output (@ 10VDC Supply)
- Low Pressure Drop: 1" H₂O Typical
- 6ms Response Time
- Provided With Amp 103956-3 Connector
- 22mm Diameter Tapered Inlet/Outlet Ports

AWM series flow sensors feature extremely low hysteresis and repeatability error (less than 0.35% of reading) and are inherently accurate over the life of the sensor. SLPM = Standard Liters Per Minute.



Mfg. Part No.	Stock No.	Price Each
		1-24
● AWM720P1	04M8266	204.22

(68355)

AWM 40000 SERIES MICROBRIDGE
MASS GAS-FLOW SENSORS

Honeywell
Sensing and Control

Provides mass gas-flow sensing in a unique manifold mount package. Provides highly accurate, stable, and repeatable performance. Features: precision ceramic flow tube resulting in a non-outgassing flow channel, high common mode pressure capability (250 PSI max.), high operating temperature (to +125°C), and hydrogen compatibility. Recommended excitation: 10VDC. Dimensions: 1.2H x 0.5W x 1.3"D. Response time: 1 msec. typ. Additional flow ranges available; SLPM = Standard Liters Per Minute; SCCM = Standard Cubic Centimeters Per Minute; go online or call.



NON-AMPLIFIED

Mfg. Part No.	Flow Range	Output	Stock No.	Price Each
● AWM42150VH	0-25 SCCM	8.5mV	04M8262	116.32

AMPLIFIED

● AWM43300V	0-1000 SCCM	5.0VDC	04M8263	127.43
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(5163)

AWM 5000 SERIES MICROBRIDGE
HIGHFLOW AIRFLOW SENSORS

Honeywell
Sensing and Control

Sensors feature a venturi-type flow housing. The microbridge chip is in direct contact with the flow stream, greatly reducing error possibilities due to orifice or bypass channel clogging. Maximum pressure drop of 2.25" H₂O. Maximum output voltage: 5.0VDC. Supply voltage (recommended excitation): 10VDC. Common mode pressure 50PSI max. Gas calibration: CO₂ and Argon are available. Weight: 30 grams. Operating temperature range: -20°C to +70°C. Response time 60 msec max. Dimensions: 1.4H x 1.3W x 6.4" L. SLPM = Standard Liters Per Minute.



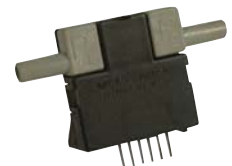
Mfg. Part No.	Gas Calibration	Flow Range	Stock No.	Price Each
● AWM5101VN	Nitrogen, N ₂	0-5SLPM	92F2998	182.09
● AWM5102VN	Nitrogen, N ₂	0-10SLPM	04M8264	178.53
● AWM5104VN	Nitrogen, N ₂	0-20SLPM	04M8265	182.09

(5138)

MICROBRIDGE MASS
AIRFLOW SENSORS

Honeywell
Sensing and Control

Operates on theory of heat transfer due to mass airflow directed across surface of a micromachined silicon sensing element. Output voltage mV or V varies in proportion to mass air or other gas flow through inlet and outlet ports of package. Supply voltage (recommended excitation): 10VDC. Common mode pressure: 25PSI max. Weight: 10.8 grams. Operating temperature range: -25°C to +85°C. Response time: 1.0 msec typ. Dimensions: 1.2H x 0.6W x 1.2"D. SCCM = Standard Cubic Centimeters Per Minute.



AMPLIFIED OUTPUTS

Mfg. Part No.	Measurement	Flow Range	Output	Stock No.	Price Each
● AWM3100V	Massflow	0-200 SCCM	5.0VDC	04M8260	103.39
● AWM3300V	Massflow	0-1000 SCCM	5.0VDC	04M8261	91.90

NON-AMPLIFIED OUTPUTS

● AWM2100V	Massflow	0-200 SCCM	44.5mV	04M8259	83.82
● AWM2300V	Massflow	0-1000 SCCM	55.5mV	92F2997	83.82

(5139)

AWM9000 SERIES
AIRFLOW SENSORS

Just Added



Honeywell
Sensing and Control

- Bi-directional sensing capability
- Highly stable null and full-scale
- Extremely low pressure drop
- Extremely low hysteresis and repeatability errors, less than 0.35% of reading
- Fast response time, 1 ms typical



AWM92100V



AWM92200V

The AWM92100V has a flow range 0 +/- 200 sccm with a pressure drop of only 0.49 mBar, typically. The AWM92200V is a differential pressure version that has a range of +/- 2" H₂O. The AWM9000 Series sensors operate with a supply voltage from 8.0 Vdc to 15.0 Vdc, while consuming only 50mW of power. The compact plastic package will withstand a maximum overpressure of 25 psi without compromising performance. The sensor is well suited for use in portable devices and battery powered applications

Mfg. Part No.	Output Voltage @Trim Point (mV)	Stock No.	Price Each
			1-24
● AWM92100V	77	81H5714	30.07
● AWM92200V	38	85C6582	30.07

(121384)

SENSORS – AIRFLOW • SENSORS – ANGULAR RATE • SENSORS – CURRENT

MEMS FLOW SENSORS

**OMRON**
ELECTRONIC COMPONENTS

Specifications:

- Applicable gas: Air
- Supply voltage: 26.4VDC
- Output voltage: 6VDC
- Current consumption: 15mA
- Operating humidity: 85% RH
- Operating temperature: -10°C to 60°C

Features:

- Stable output across full scale
- Low power consumption
- Dust resistant design

MASS AIRFLOW SENSORS

Mfg. Part No.	Flow Range (LPM)	Termination	Stock No.	Price Each		
				1-24	25-49	50-99
● D6F-03A3-000*	0 - 3	Q.D. Cable	04M8973	264.77	239.01	212.23
● D6F-10A5-000	0 - 10	Built-in R/A Connect	23M4658	300.25	270.23	240.20
● D6F-20A5-000	0 - 20	Built-in R/A Connect	23M4660	300.25	270.23	240.20
● D6F-50A5-000	0 - 50	Built-in R/A Connect	23M4662	300.25	270.23	240.20
● D6F-10A6-000	0 - 10	Built-in Straight Connect	23M4659	299.67	270.52	240.20
● D6F-20A6-000	0 - 20	Built-in Straight Connect	23M4661	299.67	270.52	240.20
● D6F-50A6-000	0 - 50	Built-in Straight Connect	23M4663	299.67	270.52	240.20

AIRFLOW SENSORS

● D6F-V03A1	0 - 3	Q.D. Cable	23M4657	66.25	59.63	53.00
● D6F-W01A1	0 - 1	Q.D. Cable	04M8971	102.36	92.13	81.89
● D6F-W04A1	0 - 4	Q.D. Cable	04M8972	102.36	92.13	81.89

CABLE CONNECTOR ASSEMBLIES

Mfg. Part No.	For Use With	Stock No.	Price Each		
			1-24	25-49	50-99
● D6F-CABLE1	D6F-10A, -20A, -50A sensors	04M8969	8.87	7.99	7.10
● D6F-W CABLE	D6F-W sensors	04M8970	5.12	4.61	4.10

* Terminates with D6F-CABLE2 (optional)
(89844)

EM SERIES MASS FLOW SENSORS

**SENSIRION**
THE SENSOR COMPANY

- CMOSens Technology
- Digitally calibrated and temperature compensated
- RS-232 and SPI digital interface

Enables fast and economical measurement of gas flows over a very wide dynamic range. CMOSens technology combines a sensor element with the amplification and A/D converter circuit on one single CMOS chip. Requires a supply voltage of 7-18VDC and provides an RS-232 and SPI compliant electrical interface. Exceptionally well suited for difficult measurement conditions when fast changing gas flows must be monitored and summed up precisely.



Mfg. Part No.	Flow Range (L/min)	Accuracy* measured value	Pressure Drop at full flow (mbar/psi)	Stock No.	Price Each	
					1-9	
● EM1NV	0-200	5	100/1.45	18M2036	374.54	
● EM1NR	0-20	3	20/0.29	18M2035	374.54	
● EM1NL	0-0.5	3	2/0.029	07J2368	398.59	

* At 1-100% full scale

EVALUATION KITS

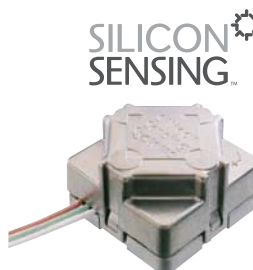
Mfg. Part No.	For Part No.	Kits Contain	Stock No.	Price Each
● EK-F3_V	EM1NV	Sensor, 9-pin D-sub cable, Legris & Hausmann connector, power adapter, FlowViewer CD	07J2366	728.34
● EK-F3_R	EM1NR		07J2365	728.34
● EK-F3_L	EM1NL		07J2364	728.34

(79397)

CRS03 SERIES ANGULAR RATE SENSORS

- Bias, Setting Tolerance: $\leq \pm 3^\circ/\text{s}$
- Bandwidth: 10Hz (-3dB)
- Operating Temperature: -40°C to +85°C
- Mass: <18g
- Supply Voltage: 4.75V to 5.25V
- Supply Current: < 35mA
- Measures Perpendicular to The Mounting Plane
- Dimensions: 0.72H x 1.14W x 1.14L (18.4 x 29 x 29mm)

Suitable for applications where the sensing axis is perpendicular to the mounting plane. Angular rate sensors are used wherever rate of turn sensing is required without a fixed point of reference. The sensor will output a DC voltage proportional to the rate of turn and input voltage.



➤ CONTINUED ➤

CRS03 SERIES ANGULAR RATE SENSORS (CONT.)

Mfg. Part No.	Rate Range ($^\circ/\text{s}$)	Nominal Scale Factor (mV/ $^\circ/\text{s}$)	Termination	Stock No.	Price Each
					1-9
CRS03-01	± 100	20	3-Pins	64J7628	343.86
CRS03-02	± 100	20	Pigtail and Connector	93C9882	363.40
CRS03-04S	± 200	10	Pigtail and Connector	86H3888	363.40
CRS03-11	573	3.49	3-Pins	45J3771	478.74

(72949)

CURRENTWATCH SENSORS

**EATON**

- AC current sensing up to 2000 amps, DC current sensing up to 300 amps
- Solid or split-core housings for easy installation in new or retrofit applications
- Field adjustable current ranges allow for increased flexibility and reduced stock
- Discrete or analog outputs (4 - 20 mA, 0 - 5 V, 0 - 10 V)
- Five-year warranty, UL and CE approvals

These devices are ideal for providing status information or protection for electrified equipment. CurrentWatch products are available in both switch and sensor variety. Current switches are set to trip at an over or undercurrent condition, are designed with fixed or adjustable trip points and are ideal for providing information on AC electrified equipment. Current sensors operate by monitoring current flow in equipment. The current magnitude is converted into a linear and proportional analog signal (4 - 20 mA, 0 - 5 V or 0 - 10 V). DIN-rail mountable housing and DIN-rail mounting accessory. Visual LED indicators for easy setup and status. Self-powered models available, normally-closed or normally-open configurations.

EAC SERIES SENSORS

Mfg. Part No.	Power Supply	Current Sensing Range (A)	Output Type	Housing Style	Stock No.	Price 1-4
EAC1420SC	24V DC Loop-Powered	10,20,50	4-20mA	Solid	08N7296	185.90
EAC1420SP	24V DC Loop-Powered	10,20,50	4-20mA	Split	08N7297	227.21
EAC2420SC	24V DC Loop-Powered	100,150,200	4-20mA	Solid	08N7300	185.90
EAC2420SP	24V DC Loop-Powered	100,150,200	4-20mA	Split	08N7301	227.21
EAC205SP	Self-Powered	100,150,200	0 - 5VDC	Split	08N7298	179.01
EAC210SP	Self-Powered	100,150,200	0 - 10VDC	Split	08N7299	172.13
EACP2429USP	24V AC/DC	100,150,200	4-20mA	Split	08N7295	316.71

ECS SERIES CURRENT SWITCHES

ECSNOASC	Self-Powered	1 - 150	NO	Solid	08N7305	123.93
ECSNOASP	Self-Powered	1.5 - 150	NO	Split	08N7306	141.84

ECSJ SERIES CURRENT SWITCHES

ECSJ400SC	Self-Powered	1,40,175	NO	Solid	08N7302	123.93
ECSJ404SC	Self-Powered	1,40,175	NO	Solid	08N7304	151.47
ECSJ402SP	Self-Powered	1,75,40,200	NO	Split	08N7303	143.21

ECS7 SERIES CURRENT SWITCHES

ECS701SC	Self-Powered	1.5 - 150	NO	Solid	08N7307	213.44
ECS711SC	Self-Powered	2.8 - 150	NO	Solid	08N7308	156.06

EGF SERIES GROUND FAULT SENSOR

EGF3NOACNET3	120V AC	5,10,30 mA	NO Solid-State	Solid	08N7313	309.83
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(116651)

Current Order Status & History

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(148881)

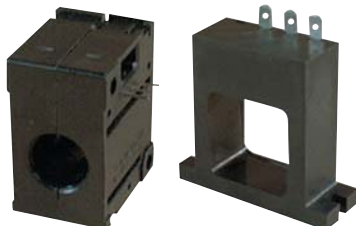
SENSORS – CURRENT

CSD SERIES HALL-EFFECT DIGITAL OUTPUT CURRENT SENSORS



Honeywell
Sensing and Control

CSD series solid-state sensors detect absence/presence of DC or AC current with digital current sink output. Response time: 100µsec. Output voltage: 0.4VDC. Changes from Vs to 0.4V at operating current. Output current: 20mA, except mfg. part no. CSDB1CC: 100mA. NOTE: Thru-hole design does not require electrical connection to sensed current. Max. sensed current is only limited by the conductor size.



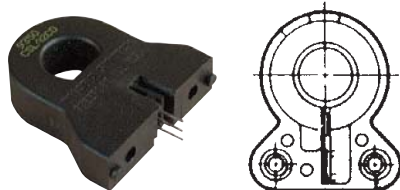
Mfg. Part No.	Terminal Type	Supply Voltage (VDC)	Operate Current (nom)*	Release Current (min)*	Stock No.	Price Each	
						1-24	25-49
● CSDA1BA	Solder Pins	6-16	0.50/Turn	0.08/Turn	04M8744	15.72	14.92
● CSDA1BC	Solder Pins	6-16	3.50/Turn	0.6/Turn	51F2597	17.54	16.33
● CSDB1CC	Spade Terminals	8-16	3.50/Turn	0.6/Turn	04M8747	152.36	144.97
● CSCD1BA	Solder Pins	5 ± 0.2	0.50/Turn	0.08/Turn	04M8748	19.13	17.81
● CSDA1AA	Solder and PCB Mount Pins	6-16	0.50/Turn	0.08/Turn	04M8742	18.79	17.50
● CSDA1AC	Solder and PCB Mount Pins	6-16	3.50/Turn	0.6/Turn	04M8743	19.04	17.73
● CSCD1DA	PCB Mount Pins	5 ± 0.2	0.50/Turn	0.08/Turn	04M8749	21.94	20.83
● CSDA1DA	Amp® Connector	6-16	0.50/Turn	0.08/Turn	04M8745	18.30	17.37
● CSDA1DC	Amp® Connector	6-16	3.50/Turn	0.6/Turn	04M8746	19.52	18.18

* at +25°C
(3478)

CSLA SERIES HALL-EFFECT LINEAR OUTPUT CURRENT SENSORS



Honeywell
Sensing and Control



CSLA series solid-state sensors provide output voltage directly proportional to current flow. AC or DC sensing. 8-16VDC supply for CSLA1 series. 6-12VDC supply for CSLA2 series. CSLA2 series feature temperature compensation circuitry. Offset voltage: Vs/2. Output voltage swings from 25% of Vs to 75% of Vs. NOTE: Thru-hole design does not require electrical connection to sensed current. Max. sensed current is only limited by the conductor size. 3µsec. response time. Sensors with 57A to 950A capabilities also available; go online or call.

BOTTOM MOUNT w/SSS SENSOR, SOURCE OUTPUT

Mfg. Part No.	Sensed Current (A)	Sensitivity mV°N at 12VDC	Stock No.	Price Each	
				1-24	25-49
● CSLA1CD	0-57	49.6	10M8406	18.93	17.97
● CSLA1CF	0-100	29.7	16M2414	22.12	20.60
● CSLA1DJ	0-225	13.2	10M8407	22.48	20.93
● CSLA1DK	0-325	9.1	10M8408	29.18	27.17

BOTTOM MOUNT w/SS9 SENSOR, SINK/SOURCE OUTPUT

Mfg. Part No.	Sensed Current (A)	Sensitivity mV°N at 8VDC	Stock No.	Price Each	
				1-14	15-24
● CSLA2CD	0-72	32.7	10M8409	17.83	15.20
● CSLA2CF	0-125	19.6	10M8410	16.35	15.22
● CSLA2DH	0-235	9.8	16M2415	34.25	31.89
● CSLA2DJ	0-225	8.7	48F2802	36.15	33.66
● CSLA2EL	0-550	4.3	16M2417	37.48	34.89

SIDE MOUNT w/SS9 SENSOR, SINK/SOURCE OUTPUT

Mfg. Part No.	Sensed Current (A)	Sensitivity mV°N at 8VDC	Stock No.	Price Each	
				1-14	15-24
● CSLA2GE	0-92	26.1	16M2418	21.91	20.40
● CSLA2GF	0-125	19.6	16M2419	22.91	21.33

(3477)

TechCast®
Product
Training

Use the library of online training modules located on our homepage under Useful Tools, with specific guidance for complex solutions.

(148857)

CSN SERIES HALL-EFFECT NULL-BALANCE LINEAR CURRENT SENSORS



Honeywell
Sensing and Control



CSNA111

CSNE151

CSN series solid-state sensors measure AC, DC, and impulse currents. Operation based on the Hall-effect principle and the null-balance or zero magnetic flux method (feedback system). The magnetic field on the sensor is constantly controlled at zero. The amount of current required to balance zero flux is the measure of primary current flowing through conductor multiplied by the ratio of the primary to secondary windings. ±0.5% accuracy. Response time: 1µsec. NOTE: Thru-hole design does not require electrical connection to the sensed current. Max. sensed current is only limited by the conductor size. Sensors with up to 1200A of sensed current also available; go online or call.

Mfg. Part No.	Supply Voltage	Sensed Current	Nominal Output	Stock No.	Price Each			
					1-24	25-49	50-99	100-249
● CSNA111	±15VDC	±70A	50mA	10M8411	28.30	26.35	25.01	22.93
● CSNE151	±15VDC	±5-36A	25mA	10M8412	27.39	25.50	24.21	22.20

(3410)

RS/RSS OPEN LOOP CURRENT SENSOR



RS/RSS-A series open-loop hall effect current sensor accurately measures AC and DC currents and provides electrical isolation between the circuit being measured and the output of the sensor. The RS-A series operates from dual DC supply voltages of ±15V to ±18V. The RSS-A series operates from a single DC supply voltage of 12V to 18V, with a zero current output of 6VDC. All models are in the same standard package and have the versatility to be panel or bulk-head mounted.



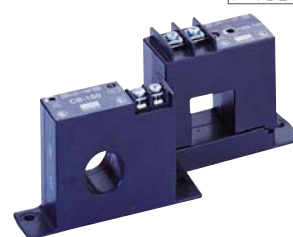
Mfg. Part No.	Nominal Current (A)	Output (mV/A)	Stock No.	Price Each	
				1-4	5+
RS-100A	100	40	87H5552	56.85	51.57
RS-200-A	200	20	45J2871	58.17	52.77
RS300A	300	13.33	56J8731	59.48	53.97
RS-500-A	500	8	89J1820	62.12	56.36
RSS-200-A	200	8	89J1822	54.21	49.18
RSS-300A	300	5.33	86H3829	55.51	50.36
RSS-500-A	500	3.2	89J1824	58.17	52.77
RSS-1000-A	1000	1.6	89J1821	60.80	55.16

(84578)

AC AND DC CURRENT SENSORS AND SWITCHES



Mfg. part nos. 155125 thru 155128 sensors provide 4-20mA output proportionate to AC current. SCC series provide either a 4-20mA or a 0-20mA unipolar output proportional to AC or DC current. SCV series provides either a 0-5V or 0-10V unipolar output proportional to AC or DC current. CS/CSS series detects AC current from 1A to 150A and provides a switched output when the current exceeds the adjustable switch point. Adjustment is made via multi-turn trim pot. Mfg. part nos. 115127, 115128, as well as CSS, SCC, and SCV series clamp around existing wiring for easy installation. Mfg. part nos. 115125 thru 155128 and CS/CSS series feature simple 2-wire connection and interface to PLCs. SCC and SCV series require 24VAC/VDC operating voltage. All models are panel-mounted, feature jumper range selection. UL listed. Higher current units are available. Go online or call.



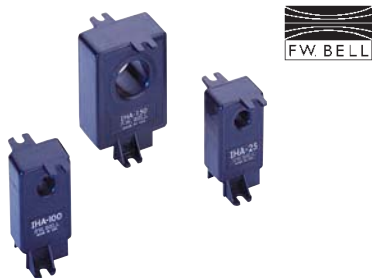
Mfg. Part No.	Range AC (A)	Output	Aper-ture	Stock No.	Price Each
155125	10-20-50	4-20mA	0.73"	92F4429	169.28
155126	100-150-200	4-20mA	0.73"	92F4430	186.01
155127	10-20-50	4-20mA	0.85"	92F4431	208.34
155128	100-150-200	4-20mA	0.85"	92F4432	234.37
CS-150	1-150	Switch	0.73"	01F816	123.69
CSS-150	1.5-150	Switch	0.85"	01F817	143.24
SCC-100P	50-75-100*	4-20mA	0.85"	48F4355	279.01
SCC-100C	50-75-100*	0-20mA	0.85"	48F4356	279.01
SCV-100L	50-75-100*	0-5V	0.85"	48F4357	292.97
SCV-100H	50-75-100*	0-10V	0.85"	48F4358	292.97

*AC(A) or DC(A)
(3460)

SENSORS – CURRENT • SENSORS – FLOW

IHA SERIES HIGH FREQUENCY CURRENT SENSORS

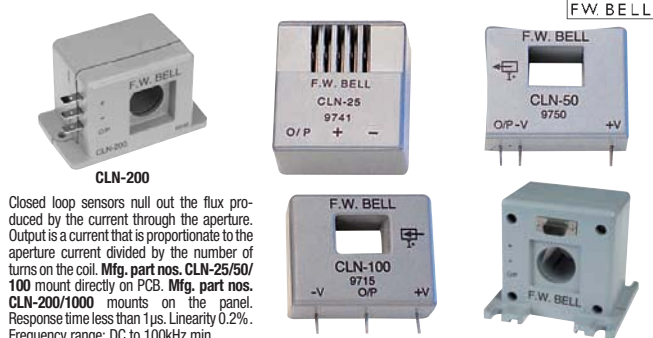
Response <1µs. Frequency range DC to 50kHz. Linearity ±1%. Operating voltage ±12VDC to ±15VDC. Temperature range 0°C to +75°C. Case design allows for either panel or PCB mounting by use of appropriate connector; go online or call. Mounting tabs accept No.6 screws for placement on PCB or panel. Ideal for use in solid-state circuits.



Mfg. Part No.	Current Range	Full Scale Output	Aperture	Stock No.	Price Each
IHA-25	±25A	±1V	0.38"	92F4411	146.39
155970	±100A	±5V	0.38"	92F4412	146.39

(3459)

CLOSED LOOP CURRENT SENSORS



Closed loop sensors null out the flux produced by the current through the aperture. Output is a current that is proportionate to the aperture current divided by the number of turns on the coil. Mfg. part nos. CLN-25/50/100 mount directly on PCB. Mfg. part nos. CLN-200/1000 mounts on the panel. Response time less than 1µs. Linearity 0.2%. Frequency range: DC to 100kHz min.

Mfg. Part No.	Nom. Current (A _{RMS})	Output (mA/A)	Operating Voltage (±VDC)	Aperture	Stock No.	Price Each
CLN-25*	25	1	15	PCB	83F2354	29.30
CLN-50	50	1	15	0.39 x 0.53"	83F2355	36.33
CLN-100	100	1	15	0.39 x 0.53"	83F2357	57.42
CLSM-05MA	0.005	5	18	PCB	48J6052	30.95
CLSM-10MA	0.01	2.5	18	PCB	48J6054	32.12
CLSM-25M	25	1	18	PCB	64J9088	25.61
CLSM-50LA	50	1	18	0.402" x 0.795"	84J2272	34.77
CLSM-100S	100	0.5	18	0.276" x 0.630"	84J2267	24.93
CLSM-200LA	200	0.5	18	0.402" x 0.795"	84J2268	35.26
CLSM-300	300	0.5	18	0.787" dia.	84J2271	86.76
CLSM-1000	1000	0.2	18	1.58" dia.	22J0781	145.45
CLSM-2000	2000	0.2	24	1.58" dia.	84J2269	300.87

*CL-25 offers choice of ranges via connection to pins on sensor: 5, 6, 8, 12 or 25 Arms.

(3458)

NT SERIES AND MS-15 CURRENT SENSORS



NT series thin footprint current sensors mount directly to PC Board. All electrical connections are via thru-hole pins. Small size (less than 0.25" wide) allows placement in applications with limited board space. Measure AC and DC currents. Frequency Response DC to 50kHz. Linearity ±1%. Response time <2µs. Sensors operate from +0°C to +70°C. Ideal replacement for shunts where electrical isolation is required.

Mfg. Part No.	Nom. Current (Arms)	Full Scale Output	Voltage (VDC)	Stock No.	Price Each
NT-5	5	2.5V	±15	16F6749	32.69 30.06
NT-15	15	2.5V	±15	16F6750	34.09 30.85

➤ CONTINUED ➤

NT SERIES AND MS-15 CURRENT SENSORS (CONT.)

Mfg. Part No.	Nom. Current (Arms)	Full Scale Output	Voltage (VDC)	Stock No.	Price Each
NT-25	25	2.5V	±15	16F6751	35.93 32.51
NT-50	50	2.5V	±15	16F6752	37.77 34.17

MS-15 CURRENT SENSOR

The miniature MS sensor measures DC and AC currents and provides electrical isolation between the circuit being measured and the output. The unipolar power source, small size and low cost make it the most cost effective solution for Hall effect current sensing in the industry. Supply voltage is +5VDC.

Mfg. Part No.	Measurement Range	Output	Stock No.	Price Each
MS-15	(± 15A)	0.08 - 0.15 V/A	49H8118	11.45 10.50

(3586)

FS SERIES LIQUID LEVEL SENSORS

Just Added



22mm / 15mm

- Contact form: SPST-NO
- Switching power max. VA: 15
- Switching voltage AC max.: 240
- Switching voltage DC max.: 120
- Switching current max. A: 1.0
- Maximum operating pressure: 10 bar. (140 psi)
- Temperature rate to 85°C (185°F)

Our range of Flow Switches are reed switch based devices which are manufactured in Acetal resin. These switches are designed for use in liquid flow systems up to 10 bar pressure. Advanced design ensures minimal fluid flow restriction. Flow switches can be mounted horizontally or vertically. As the operating piston is returned to its original position by gravity the cap must always be upwards. Greater operate flow sensitivity is achieved with vertical installation. Supplied with 25cm cable.

Mfg. Part No.	Pipe Size (mm)	Operate Flow litres/min. / (US gals/min.)	Release Flow / (US gals/min.)	Stock No.	Price Each
FS15A	15	2/ (0.53)	0.3 l/min/ (0.08)	89C5074	19.99
FS15LF	15	0.9/ (0.24)	0.25 l/min/ (0.07)	89C5076	21.52
FS22A	22	3.75/ (0.99)	1.40 l/min/ (0.37)	89C5077	20.99

(133295)

RFA SERIES ANALOG FLOW RATE MONITORING SENSORS

Just Added



Polypropylene

Brass

The Gems RFA Series is a paddlewheel flow monitoring sensor with analog output and integral visual confirmation. The sensor provides a 0-10 Vdc analog output that is proportional to flow rate.

Mfg. Part No.	Body Material	Port Size NPT	Flow Rate GPM	Stock No.	Price Each
170290	Polypropylene	0.25"	0.1 to 1.0 (±7%)	22M4294	230.69
170280	Polypropylene	0.25"	0.5 to 5.0 (±7%)	06R2339	185.19
170291	Polypropylene	0.50"	1.5 to 12.0 (±7%)	18M4615	247.07
170281	Polypropylene	0.50"	4.0 to 20.0 (±7%)	23K2525	283.92
170292	Brass	0.25"	0.1 to 1.0 (±7%)	08N7884	328.97
170282	Brass	0.25"	0.5 to 5.0 (±7%)	45J3621	342.62
170293	Brass	0.50"	1.5 to 12.0 (±7%)	64M6754	316.68
170283	Brass	0.50"	4.0 to 20.0 (±15%)	06R2340	185.19
180407	Brass	0.75"	5.0 to 30.0 (±10%)	23K2530	378.56

(147209)



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(148830)

SENSORS – FLOW

FS-380P SERIES - INDUSTRIAL STRENGTH INLINE PLASTIC FLOW SWITCHES

Just Added



The FS-380P flow switch offers the same superior performance to non-clogging as its metal cousin (FS-380). The fixed set point and simple design make it a dependable switch. The FS-380P is an ideal choice for coolant applications requiring reliable flow detection in HVAC, semiconductor, welding, medical, and other industries.

Mfg. Part No.	Flow Setting GPM	Stock No.	Price Each	
			1-4	
209876	0.15	06R2341	46.05	
197081	0.25	02H2973	61.43	
197082	0.5	02H2974	95.55	
197083	1	02H2975	95.55	
197084	1.5	02H2976	95.55	
197085	2	02H2977	95.55	

(147210)

FT-330 - TURBOFLOW FLOW-RATE SENSORS

Just Added



Features

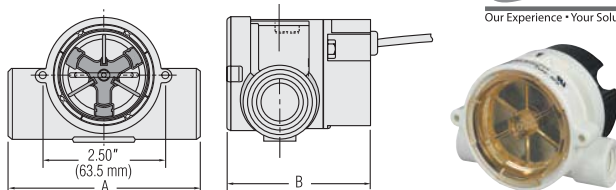
- Hall Effect Turbine Flow Sensor for low OEM Applications
- NSF (STD 61) Approved Materials
- Ideal for use in water or beverage dispensing application
- 316 stainless steel shaft
- Delrin® bearings
- Standard Power & Output makes it easy to retrofit existing controllers



Mfg. Part No.	Flow Rate		Pulses Per		Frequency Output (Hz)	Stock No.	Price Each	
	GPM	Liters/m	Gallon	Liter			1-4	
226000	0.2 - 2	0.8 - 7.6	10,313	2724	32-343	06R2342	95.10	
226100	0.4 - 4	1.5 - 15	4994	1319	29-343	06R2343	95.10	

(147211)

RFO SERIES FLOW RATE MONITORING SENSORS

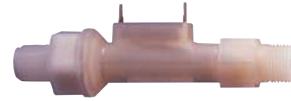


Output signal for RFO series is an on/off pulse of the DC voltage supplied to the unit, it is compatible with all digital logic families. Input voltage range is 4.5 to 24VDC. Frequency of the output pulse is proportional to the flow rate and ranges from approximately 25Hz at low flow to 225Hz at high flow.

Mfg. Part No.	Body Material	Port Size NPT	Flow Range GPM	Dimensions		Stock No.	Price Each	
				A	B		1-9	
155421	Polypropylene	0.25"	0.5-5.0 (±7%)	3.06"	2.38"	92C8701	100.70	
155481		0.50"	4.0-20.0 (±15%)	(77.7mm)	(60.5mm)	92C8704	100.70	
156261	Brass	0.25"	0.5-5.0 (±7%)	3.01"	2.32"	92C8708	168.54	
194761		0.75"	5.0-30.0 (±15%)	3.94"	2.95"	92C8745	168.54	
194762		1.00"	8.0-60.0 (±15%)	(100mm)	(74.6mm)	92C8746	168.54	

(72581)

FS-150 SERIES FLOW SWITCHES



- Port Size: 1/2" NPT
- Primary Construction Material: Polypropylene
- Rytan® -R4, 316 Stainless Steel Piston
- 316 Stainless Steel Spring
- Maximum Operating Pressure: 200 PSIG @ +70°F to +150°F (+21.1°C to +65.5°C); 150 PSIG @ +150°F to +212°F (+65.5°C to +100°C)
- Operating Temperature: 0°F to 212°F (-17.8°C to +100°C)
- Length: 5 29/32"
- Quick connect terminals: 1/4"
- Switch: SPST, 20VA

These slim, inline switches reduce pressure drop to a minimum. Liquids are able to smoothly pass around the piston and flow through the switch with little pressure loss to the down stream line.

Mfg. Part No.	Flow Settings GPM	Stock No.	Price Each	
			1-9	
129660	0.5	92C8689	85.28	
129661	1.0	92C8690	85.28	
129662	2.0	92C8691	85.28	
129663	3.0	92C8692	85.28	

(72574)

FS3 AND FS4 SERIES LIQUID FLOW SWITCHES



FS-3 Series



FS-4 Series

FS-3 series switches are specifically designed for reliable operation in clean post-filtered water. Nory® housing with 316 stainless steel spring and stop pin. Pressure rating: 150 psi @ +70°F; 50 psi @ +212°F. Operating temperature: 0°F to 212°F (17°C to 100°C) max. FS-4 series switches have a Rytan® R4 housing and piston with a 316 stainless steel spring. Max. operating pressure: 250 psi @ +17°C. Operating temperature: 0°F to +225°F (17°C to 107°C).

FS-3 AND FS-4 SERIES SPST SWITCHES

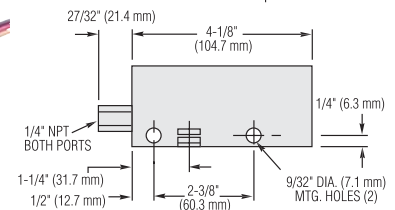
Mfg. Part No.	Flow Setting GPM	Length	Port Size	Stock No.	Price Each	
					1-9	
165841	0.25	4.1"	1/4" Male NPT	92C8721	89.64	
165842	0.50			92C8722	89.64	
165843	1.00			92C8723	89.64	
122340	0.1	3.80"	9/16"-18 UNF	02H2827	87.87	

FS-4 SERIES SPDT SWITCH

122353	0.25	3 5/8"	9/16"-18 UNF	92C8684	97.97
122357	1.5	3.80"	9/16"-18 UNF	92C8688	97.97

(72573)

FS-925 SERIES GENERAL PURPOSE FLOW SWITCHES



- Brass Housing
- Piston in Brass Housing: Polysulfone for Water, Brass for Oil and Air
- 316 Stainless Steel Spring
- Max. Operating Pressure Rating: 1000 PSIG
- Operating Temperature with Brass: -20°F to +300°F (-29°C to +148.9°C)
- Switch: SPDT, 20VA
- Inlet/Outlet Ports: 1/4" NPT

FS-925 series switches provide accurate detection of excessive or insufficient flow rates in such applications as protecting against loss of fluid flow in hydraulic systems, assuring proper coolant flow in semiconductor processing equipment, monitoring high pressure lubrication systems and ensuring proper air flow in water/waste systems.

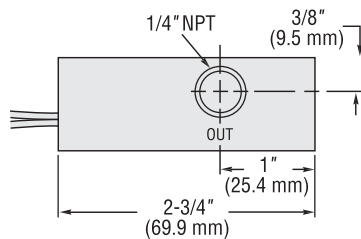
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SENSORS – FLOW • SENSORS – FORCE

FS-925 SERIES GENERAL PURPOSE FLOW SWITCHES (CONT.)

Mfg. Part No.	Flow Settings GPM, ±10%	Stock No.	Price Each
26914	0.10	92C8758	179.14
26915	0.25	92C8759	179.14
26916	0.50	92C8760	179.14

(72576)

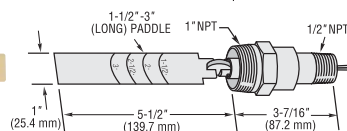
FS-927 SERIES
COMPACT FLOW
SWITCHES

- Brass Housing and Piston
- 316 Stainless Steel Spring
- Operating Pressure: 1000 PSIG Max.
- Operating Temperature: -20°F to +200°F (-29°C to 93.3°C)
- Switch: SPST-NO @ No Flow, 20VA
- Inlet/Outlet Ports: 1/4" NPT

Measuring only 1" x 2 3/4", these compact switches are ideal for use where space is at a premium. Designed for use with water and oil. They are ideal for coolant or lubricant flow monitoring in portable equipment and many other applications with space constraints.

Mfg. Part No.	Flow Settings GPM	Stock No.	Price Each
70820	0.10	92C8782	94.50
70821	0.25	92C8783	94.50
70822	0.50	92C8784	94.50
70824	1.00	92C8786	94.50

(72577)

FS-550 SERIES HIGH PRESSURE
PADDLE TYPE FLOW SWITCHES

- Pipe Line Size: 1/4" and Up
- Maximum Operating Pressure: 2000 PSIG
- Pressure Drop: 3 PSIG Maximum
- Operating Temperature: -30°F to +300°F (-34.4°C to +148.9°C)
- Switch: SPDT, 20VA

Standard FS-550 switches sense liquid flow in either direction to monitor flow/no-flow conditions. They are supplied in two paddle lengths. The paddle is trimmed during installation to permit switch actuation at the desired flow rate. As flow increases in a pipe, the paddle of the switch pivots to move out of the liquid path, producing less than 3 PSIG of pressure drop regardless of pipe size.

Mfg. Part No.	Paddle Length	Housing Material	Switch Operation	Stock No.	Price Each
29609	Long	Brass	N.O.	92C8765	194.35
29608		316 SS	or	92C8764	298.13
30640	Short	316 SS	N.C.	92C8768	298.13

(72580)



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(148833)

COMPACT, HIGHLY RELIABLE
FLOW-SENSOR WITH UNIQUE
DUST SEGREGATION SYSTEM

- Applicable gas: Air
- Supply voltage: 5-10VDC
- Output voltage: 0.5-1.5VDC
- Current consumption: 15mA
- Operating humidity: 85% RH
- Operating temperature: -10 to 60 °C

AIR FLOW SENSORS

Mfg. Part No.	Flow Range (LPM)	Termination	Stock No.	Price Each
6DF-P0010A1	0 - 1	PCB	88M3809	47.44
6DF-P0010A2	0 - 1	Cable with Connector	88M3810	44.33

CABLE CONNECTOR ASSEMBLY

Mfg. Part No.	For Use With	Stock No.	Price Each
6DF-CABLE2	Cable Connector Sensor	88M3808	8.87

(109719)

FSG SERIES FORCE SENSOR



Honeywell

Sensing and Control



- Compact commercial grade package
- Robust performance characteristics
- Adaptable product design
- Precision force sensing
- Electrically ratiometric output
- Extremely low deflection (30 microns typ. at Full Scale)
- High ESD resistance 10 kV
- Available signal conditioning
- Optional terminal configurations

The FS Series Sensors provide precise, reliable force sensing performance in a compact commercial grade package. The sensor features a proven sensing technology that utilizes a specialized piezoresistive micro-machined silicon sensing element. The low power, unamplified, noncompensated Wheatstone bridge circuit design provides inherently stable mV outputs over the force range.

Force sensors operate on the principle that the resistance of silicon implanted piezoresistors will increase when the resistors flex under any applied force. The sensor concentrates force from the application, through the stainless steel plunger, directly to the silicon sensing element. The amount of resistance changes in proportion to the amount of force being applied. This change in circuit resistance results in a corresponding mV output level.

Mfg. Part No.	Operating Force (g)	Supply Voltage (VDC)	Sensitivity (mV/g)	Overforce (g)	Stock No.	Price Each
FSG15N1A	0 - 1500	10 - 12	0.24	5500	15N4325	56.17

(121121)

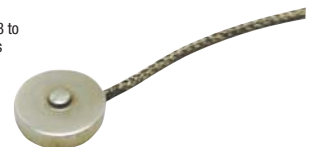
SENSOTEC MODEL 13
SUBMINIATURE LOAD CELLS

Features:

- Stainless steel construction
- Measure load ranges from 1000g to 1000lbs
- mV/V output
- Subminiature dimensions, with height ranging from 0.13 to 0.25in, allow easy incorporation into limited applications

Specifications:

- Infinite resolution
- Electrical termination: Integral 5ft twisted cable with balance board included 2ft from load cell
- Foil strain gage
- Shunt calibration data included
- Operating temperature: -65°F to 250°F



Mfg. Part No.	Range	Stock No.	Price Each
AL322AR	1000g	27M3390	833.86
AL322AV	10lbf	27M3391	555.47
AL322BL	25lbf	27M3392	816.38
AL322BN	50lbf	27M3393	742.31
AL322BR	100lbf	27M3394	742.43
AL322CN	250lbf	27M3395	706.88
AL322CV	1000lbf	27M3396	555.47

(90228)

SENSORS – FORCE • SENSORS – HUMIDITY

SENSOTEC MODEL 31 PRECISION
LOW AND MID RANGE LOAD CELLS

Features:

- Stainless steel welded construction
- Miniature design
- Measure wide range of both tension and compression load forces from 250g to 1,000lbs
- Shunt calibration data included
- Other applications include cable tension and electromechanical parts testing

Specifications:

- Male threads
- Infinite resolution
- Foil or semiconductor strain gage type
- Integral 5ft. teflon cable termination
- Operating temperature range: -65°F to 250°F
- Call for higher ranges greater than 2,000lbs

LOW RANGE

Mfg. Part No.	Range	Stock No.	Price Each
AL311AN 4A	250 gm	27M1580	1335.55
AL311AR	1000 gm	27M1581	1061.13

MID RANGE

AL311AV	10 lbs	27M1583	743.92
AL311BL	25 lbs	27M1584	1036.97
AL311 BN	50 lbs	27M1579	743.92
AL311BR	100 lbs	27M1585	743.92
AL311CN	250 lbs	27M1586	959.09
AL311CR	500 lbs	27M1587	722.00
AL311CV	1000 lbs	27M1588	1061.13

(90038)

Honeywell
Sensing and Control

SENSOTEC MODEL 41 PRECISION LOAD CELLS (CONT.)

Mfg. Part No.	Range (lbf)	Stock No.	Price Each
AL111EL	20000	27M1718	1721.64
AL111EP	50000	27M1719	1721.64

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each
AA111	PT06A-10-6S mating connector up to 5000lbs	27M1708	48.80
AA113	PT06A-10-6A connector with 15ft of 4-conductor cable up to 5000lbs	27M1709	99.00
AA121	MS3106A-14S-6S mating connector 10000lbs and above	27M1710	54.10

(90231)

SENSOTEC UNIVERSAL
IN-LINE AMPLIFIERS

Features:

- For applications where transducer must be located away from the display
- Long signal transmission with minimal signal loss
- Compatible with any strain gage sensor
- Meets NEMA 4 and IP66 ratings for water resistance

Specifications:

- Operating voltage: 18-32VDC
- Linearity: 0.02% F.S.

Mfg. Part No.	Model	Output	Stock No.	Price 1-14
BE125	U3W	4-20mA	29M9216	477.88
BE127	UV10	±10VDC	29M9217	502.57

(90545)

SENSOTEC MODEL 53
LOW COST LOAD CELLS

Features:

- Designed for low cost production and testing applications
- Stainless steel welded construction
- Excellent long-term stability and reliability under severe operating conditions
- Integral load button machined as part of the load cell

Specifications:

- ±0.25% non-linearity
- Infinite resolution
- Output: 2mV/V
- Operating temperature: -65°F to 250°F
- Bonded foil strain gage
- Shunt calibration data included
- Integral 5ft teflon cable termination

Mfg. Part No.	Range (lbf)	Stock No.	Price Each
AL131CR	500	27M2018	451.39
AL131CV	1000	27M2019	451.39
AL131DL	2000	27M2020	451.39
AL131DR	5000	27M2021	513.84
AL131DV	10000	27M2022	513.84
AL131EL	20000	27M2023	617.92
AL131EP	50000	27M2024	723.10

(90229)

Honeywell
Sensing and ControlCHIPCAP HUMIDITY AND
TEMPERATURE SENSORS

NEW TECHNOLOGY

GE
Sensing

Features:

- Simultaneous relative humidity and temperature outputs
- Factory calibrated ready to use
- Designed for automated assembly

Specifications:

- Precision accuracy: ±2% RH, ±0.6°C
- Resolution 0.4% RH
- Factory selectable analog or digital outputs
- Supply voltage: 3V to 5.5V
- Low quiescent current: 0.5mA at 5V
- Package style: 14-SOP

SOLD INDIVIDUALLY

Mfg. Part No.	Description	Stock No.	Price Each
CHIPCAP-D	RH and Temp. Sensor, Digital Output	10R6244	19.95
CHIPCAP-L	RH and Temp. Sensor, 0-1VDC Linear Output	10R6245	22.74
CHIPCAP-R	RH and Temp. Sensor, 0.5-4.5VDC Ratiometric Output	10R6246	22.74

SOLD IN TUBES OF 50

Mfg. Part No.	Description	Stock No.	Price per Pkg
CHIPCAP-D-50-TUBE	RH and Temp. Sensor, Digital Output	10R1417	573.33
CHIPCAP-L-50-TUBE	RH and Temp. Sensor, 0-1VDC Linear Output	10R1418	653.66
CHIPCAP-R-50-TUBE	RH and Temp. Sensor, 0.5-4.5VDC Ratiometric Output	10R1419	653.66

(148529)

SENSOTEC MODEL 41
PRECISION LOAD CELLSHoneywell
Sensing and Control

Features:

- Two stabilizing diaphragms reduce side-loading effects
- Stainless steel welded construction
- Measures wide range of both tension and compression load forces from 50lb to 50000lb
- Shunt calibration data included
- Applications include tube mills, extruding processes and weighing

Specifications:

- Low profile, "pancake" type load cell
- Threaded hole runs completely through center of cell
- Bonded foil strain gage type
- Infinite resolution
- Operating temperature: -65°F to 250°F
- Mating connector and cable assemblies not included; order separately below

Mfg. Part No.	Range (lbf)	Stock No.	Price Each
AL111BN	50	27M1712	760.35
AL111BR	100	27M1713	1117.48
AL111CR	500	27M1714	1117.48
AL111CV	1000	27M1715	1349.35
AL111DR	5000	27M1716	1279.80
AL111DV	10000	27M1717	1022.20

➔ CONTINUED ➔

HCH-1000 CAPACITIVE
HUMIDITY SENSORSHoneywell
Sensing and Control

- Polymer sensing offers enhanced resistance against contamination
- Reduced temperature dependence
- Semiconductor fabrication technology, uses glass wafer as substrate
- Enhanced sensitivity and accuracy, fast response
- Low hysteresis and long-term stability

The HCH-1000 series humidity sensor is a capacitive polymer sensor designed for relative humidity measurement. The sensor converts humidity value into capacitance, which can be measured electronically. Polyimide is used as a humidity sensing material because of its inherent IC (Integrated Circuit) processing compatibility, reduced temperature

➔ CONTINUED ➔

SENSORS – HUMIDITY

HCH-1000 CAPACITIVE HUMIDITY SENSORS (CONT.)

dependence and enhanced resistance against contamination. The HCH-1000- Series is manufactured using semi-conductor technology. The sensor consists of a grid top electrode, a polyimide layer, and a bottom electrode. The grid top electrode on the bottom electrode provides enhanced sensitivity when compared to that of a standard structure.

Mfg. Part No.	Description	Capacitance (pF)	Accuracy (+/-%)	Stock No.	Price Each	
					1-14	15-24
HCH-1000-001	Uncovered Device	330	2	60M2938	4.30	4.08
HCH-1000-002	Covered Device	330	2	60M2941	4.40	4.18

(109391)

HIH-4000 SERIES HUMIDITY SENSORS



Honeywell

Sensing and Control



FEATURES

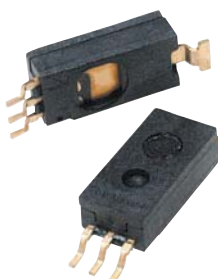
- Molded thermoset plastic housing
- Linear voltage output vs %RH
- Laser trimmed interchangeability
- Low power design
- High accuracy
- Fast response time

A more robust version of the HIH 3610 series, HIH-4000 series humidity sensors typically draw only 200µA of current, ideally suited for low drain, battery operated systems. Delivers instrumentation-quality RH (Relative Humidity) sensing performance in a competitively priced, solderable SIP (Single In-Line Package). Available in two lead spacing configurations, the RH sensor is a laser trimmed, thermoset polymer capacitive sensing element with on-chip integrated signal conditioning. The sensing element's multilayer construction provides excellent resistance to most application hazards such as wetting, dust, dirt, oils and common environmental chemicals.

Mfg. Part No.	Description	Lead Pitch (in.)	Stock No.	Price Each	
				1-14	15-24
● HIH-4000-002	Integrated circuitry	0.050	71J4531	18.67	
● HIH-4000-004	Integrated circuitry with calibration and data printout	0.050	31M9177	14.91	
● HIH-4000-001	Integrated circuitry	0.100	12M6693	21.01	
● HIH-4000-003	Integrated circuitry with calibration and data printout	0.100	15M0250	24.04	

(85461)

HIH-4030/31 HUMIDITY SENSORS



Honeywell

Sensing and Control



- Molded thermoset plastic housing, Laser trimmed interchangeability
- Near linear voltage output vs %RH
- Low power design, Enhanced accuracy, Fast response time
- Stable, low drift performance
- Chemically resistant

Direct input to a controller or other device is made possible by this sensor's near linear voltage output. With a typical current draw of only 200 µA, the HIH-4030/4031 Series is often ideally suited for low drain, battery operated systems. Tight sensor interchangeability reduces or eliminates OEM production calibration costs. The HIH-4030/4031 Series delivers instrumentation-quality RH (Relative Humidity) sensing performance in a competitively priced, solderable SMD. The HIH-4030 is a covered integrated circuit humidity sensor. The HIH-4031 is a covered, condensation-resistant, integrated circuit humidity sensor that is factory-fitted with a hydrophobic filter allowing it to be used in condensing environments including industrial, medical and commercial applications. The RH sensor uses a laser trimmed, thermoset polymer capacitive sensing element with on-chip integrated signal conditioning. The sensing element's multilayer construction provides excellent resistance to most application hazards such as condensation, dust, dirt, oils and common environmental chemicals. POTENTIAL APPLICATIONS Refrigeration equipment, HVAC (Heating, Ventilation and Air Conditioning), equipment, Medical equipment, Drying, Metrology, Battery-powered systems, OEM assemblies

Mfg. Part No.	Description	Accuracy (+/-%)	Stock No.	Price Each	
				1-14	15-24
HIH-4030-001	Integrated circuit	3.5	62M4608	17.01	14.45
HIH-4030-003	Integrated circuit w/calibration and data printout	3.5	61M2125	18.37	15.60
● HIH-4031-001	Filtered Integrated circuit	3.5	62M4609	19.91	16.91
HIH-4031-003	Filtered integrated circuit w/calibration and data printout	3.5	62M4610	21.27	18.06

(109390)

Expert technical support

Chat online to our team of engineers, or connect to them through your representative.

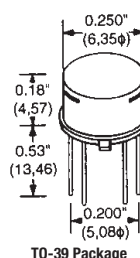
(148838)

HIH-4602 SERIES HUMIDITY SENSORS

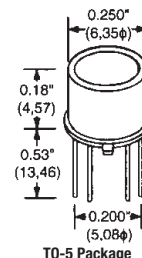


Honeywell

Sensing and Control



TO-39 Package



TO-5 Package

Features:

- Linear voltage output vs. % RH
- Laser trimmed interchangeability
- High accuracy, fast response
- Chemically resistant
- Stable, low drift performance

Specifications:

- Rh range: 0-100% RH
- Temperature range: -40°C to +85°C
- Accuracy: ±3.5% RH
- Voltage output: $V_{OUT} = 0.00003(\text{Sensor RH})^2 + 0.0281(\text{Sensor RH}) + 0.820$ Typical @ 25°C

Applications:

- Refrigeration
- Drying

- Built-in static protection
- Ideal for dew point and absolute moisture measurements
- TO-39 or TO-5 housings

- Temperature compensation: $V_{OUT} = (0.0305 + 0.000044T - 0.000011T^2)(\text{Sensor RH}) + (0.9237 - 0.0041T + 0.000040T^2) T =$ Temperature in °C

- Meteorology
- Battery-Powered Systems

Replacement for the HIH-3602 series humidity sensor. TO-5 package provides hydrophobic sintered SST filtered for maximum protection in harsh or splash-prone environments. TO-39 slotted package provides gross mechanical protection and faster response time.

Mfg. Part No.	Temp. Sensor	Interchangeability	Data Included	Package	Stock No.	Price Each
● HIH-4602-A	100kΩ	+/-3.5 % RH	Yes	TO-5	14M5850	105.15
● HIH-4602-C	1k PRTD	+/-3.5 % RH	Yes	TO-5	17M6711	79.77
● HIH-4602-L	None	+/-3.5 % RH	No	TO-39	68K0554	40.65

(85848)

HIH-5030/31 SERIES HUMIDITY SENSORS

Just Added

Honeywell

Features:

- Surface Mount Device
- Complement our existing HIH-4030/4031 line of SMD humidity sensors by operating at lower supply voltage (down to 2.7 VDC)
- Supports demanding system performance, accuracy and response time over the entire humidity range of 0-100% RH
- Allows for application flexibility due to its small, space-saving housing profile
- Provides enhanced resistance to condensation, contaminants due to its multi-layer construction and hydrophobic filter
- Provides instrumentation-quality performance due to its near linear output
- Supply voltage: 3 V

Potential Applications:

Industrial:

- Air compressors
- Battery-powered systems
- HVAC
- OEM assemblies
- Process equipment
- Telecommunications cabinets

Medical:

- Infant incubators
- Microenvironments
- Sleep apnea equipment



Mfg. Part No.	Description	Stock No.	Price Each	
			1-9	10-24
HIH-5030-001	Covered integrate circuit humidity sensor, SMD, 1000 units on tape & reel	11R0670	7.30	
HIH-5030-001S	Covered, filter integrate circuit humidity sensor, SMD, 1000 units on tape & reel	11R0671	130.44	
HIH-5031-001	Sample pack: covered integrate circuit humidity sensor, SMD, five units on tape	11R0672	10.25	
HIH-5031-001S	Sample pack; covered, filter integrate circuit humidity sensor, SMD five units on tape	11R0673	157.99	

(148724)

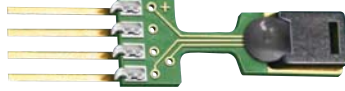
SENSORS – HUMIDITY • SENSORS – LIQUID LEVEL

SHT SERIES HUMIDITY AND TEMPERATURE SENSORS


SENSIRION
THE SENSOR COMPANY


SHT11

- Measurement range: 0-100% RH
- Response time: 8 sec.



SHT71

- Temperature range: -40°C to +123.8°C

Single chip relative humidity and temperature sensor is fully calibrated and offers excellent long-term stability with ultra-low power consumption. The digital CMOSens technology integrates two sensors and readout circuitry on one single chip. The **EK-H2 Evaluation Kit** offers a "plug and play" solution for test and evaluation. Kit contains a set of two mfg. part no. SHT11, two mfg. part no. SHT15, two mfg. part no. SHT75 sensors, the ASD11 microprocessor board (with LCD), a serial interface cable, a sensor interface cable and a power supply.

Mfg. Part No.	Humidity Accuracy (%RH)	Temperature Accuracy (°C)	Package	Stock No.	Price Each
• SHT11	± 3	± 0.4 @ 25°C	4-LCC SMD	69C4848	25.19
• SHT15	± 2	± 0.3 @ 25°C	4-LCC SMD	18M2986	30.24
• SHT71	± 3	± 0.4 @ 25°C	4-SIP	18M2987	30.24
• SHT75	± 1.8	± 0.3 @ 25°C	4-SIP	18M2988	35.18

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each
• EK-H2	Evaluation Kit	18M2031	505.53
• SF1	Filter Cap for Types SHT11 and SHT15 Sensors	09J2305	4.42

(79350)

OPTICAL LIQUID LEVEL SENSORS

Just Added

DURAKOOL INC.


Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6

Specifications:

- Supply current: 15mA
- Response time min: 50µs
- Repeatability: ±1mm
- Housing material: Polysulphone
- Output function: Digital - High in air

Features:

- Compact size
- High reliability
- Wide range of commercial and industrial applications

Mfg. Part No.	Fig.	Hysteresis (mm)	Max. Pressure	Output Current (mA)	Supply Voltage (VDC)	Stock No.	Price Each
D102101	1	2	...	40	12	59P3471	102.77
D105100	2	2	...	40	12	59P3472	102.77
D200D3SH	3	1	7 bar	10	12	59P3473	57.56
D500D3	4	1	7 bar	10	12	59P3474	57.56
D600D3SH	5	1	7 bar	15	12	59P3475	57.56
D615HDH24-003	6	1	7 bar	500	28	59P3476	179.09

(146376)

OPTICAL LEVEL SENSORS FOR LIQUIDS



- Ideal for detection of acids and bases
- Transistor or SCR output
- LED indication
- Housing material: Polysulphone



Infrared probe for liquid level detection based on refraction principle. Resistant to most acids and bases. LED indication for sensor on. Works well with: oil, wine, waste water, hydraulic fluid. Not recommended for use in environments with high ambient light (i.e., fluorescent light or sunlight), or for use with any material which may coat or adhere to the tip of the sensor. E or EP suffix: 10-40VDC, 200mA, transistor output; 110TB suffix: 115VAC, 100mA, SCR output. Thread: 9/16" ISO 228. 6' cable. Operating temperature: Max. +176°F. CE compliant.

➤ CONTINUED ➤

OPTICAL LEVEL SENSORS FOR LIQUIDS (CONT.)

Mfg. Part No.	Output Type	Stock No.	Price Each
• VP01E	NPN, N.C.	05M4438	118.00
VP02E	NPN, N.O.	96F1243	169.92
VP02EP	PNP, N.O.	96F1244	118.00
VP02-110TB	SCR, N.O.	96F1242	137.00

(3500)

LIQUID LEVEL SENSORS — VERTICAL CABLE MOUNT



- For use in non-turbulent water
- Hermetically sealed
- Direct power switching
- 100m depth capability
- Material: High density polyethylene

Lead length: 5m. Max. working pressure: 10 bar. Switching voltage max: 250VAC; 110VDC. Switching power max: 750VA (AC); 180W (DC). Switching current max. (inductive): 4A (AC); 1A (DC). Standard cable: 5m PVC sheathed 3 core. U cable for fuel oils: polyurethane sheathed 3 core cable. UL recognized, VDE approved, CENELEC approved.

Mfg. Part No.	Max. Temp. (°C)	Contact Form	Stock No.	Price Each		
• MS10A	55	SPST-NO	89C5049	1-4	5-14	15-24
• MS10B	55	SPST-NC	89C5056	30.68	29.30	28.38
• MS10C	55	SPDT-CO	89C5060	28.60	27.31	26.45
				26.42	25.24	24.44

(94476)

LIQUID LEVEL SENSORS — VERTICAL CABLE MOUNT SUBMERSIBLE FLOATS



FMSC Series

MS Series

- Unaffected by suspended solids, humidity and condensation
- 100m depth capability
- Self-cleaning switching element

- Hermetically sealed
- Direct power switching
- Material: High density polyethylene

TURBULENT

Switches are fitted with additional internal weight that brings the center of gravity and rotation close to the cable entry. Switching power max: 750VA (AC); 180W (DC). Switching current max. resistive: 10A. Switching voltage max: 110VDC; 250VAC. Switching current max. inductive: 4A (AC); 1A (DC). Body material: high density polyethylene. Standard cable: 5m PVC sheathed 3 core. U cable for fuel oils: polyurethane sheathed 3 core cable. Temperature range: 0°C to 55°C; 32°F to 131°F. Max. working pressure: 10bars.

Mfg. Part No.	Max. Temp. (°C)	Contact Form	Stock No.	Price Each		
• FFSMC10A	55	SPST-NO	89C5039	1-4	5-14	15-24
• FFSMC10B	55	SPST-NC	89C5044	79.78	76.19	73.80
• FFSMC10C	55	SPDT-CO	89C5046	79.78	76.19	73.80
				76.32	72.89	70.60

➤ CONTINUED ➤

SENSORS – LIQUID LEVEL

LIQUID LEVEL SENSORS — VERTICAL CABLE MOUNT SUBMERSIBLE FLOATS (CONT.)

NON-TURBULENT

Lead length: 5m. Max. working pressure: 10 bar. Switching voltage max: 250VAC; 110VDC. Switching power max: 750VA (AC); 180W (DC). Switching current max: (inductive): 4A (AC); 1A (DC). Standard cable: 5m PVC sheathed 3 core. U cable for fuel oils: polyurethane sheathed 3 core cable. UL recognized, VDE approved, CENELEC approved.

Mfg. Part No.	Max. Temp. (°C)	Contact Form	Stock No.	Price Each		
				1-4	5-14	15-24
● MS10A	55	SPST-NO	89C5049	30.68	29.30	28.38
● MS10B	55	SPST-NC	89C5056	28.60	27.31	26.45
● MS10C	55	SPDT-CO	89C5060	26.42	25.24	24.44

(94471)

LIQUID LEVEL SENSORS — HORIZONTAL MOUNT



Just Added



Fig. 1



Fig. 2

- Compact internal fitting
- Reliable reed switch contacts
- Available in nylon, polypropylene or PPS
- Many variants are UL recognized, components file no. E171218

RS40 series compact horizontally mounted switches require access to inside of the tank. Manufactured in a variety of materials with nitrile gaskets to suit most commonly used liquids. SPST-NO contacts. Switch action may be reversed by mounting the device with the orientation arrow pointing downwards, instead of the normal upwards direction. Maximum pressure: 5 bar. Float SG: 0.7. Minimum fluid SG: 0.85. Cable length: 1.0m. Cable size: 16/0.2 20AWG. Switching power max: 25VA. Switching current max: 0.6A. Switching voltage: 240VAC, 120VDC.

Mfg. Part No.	Body Mat'l.	Must Close (mm)	Must Open (mm)	Max. Temp. (°C)	Stock No.	Price Each
						1-4
RSF43Y100RF	Nylon	7	20	75	92F4697	14.52
RSF48Y100RF	Polypropylene	8	20	100	91F5742	15.37
● RSF46Y100RF	PPS*	9	24	120	89C7871	15.64

100 WATTS SENSORS

● RSF43H100RF	Nylon	7	20	75	06R1518	17.19
● RSF46H050TG	PPS*	9	24	120	06R1519	22.76
● RSF46H100RF	PPS*	9	24	120	06R1520	20.68
● RSF48H100RF	Polypropylene	8	20	100	06R1521	18.20

25 WATTS SENSORS

*Polyphenylene Sulphide (94468)

LIQUID LEVEL SENSORS — VERTICAL MOUNT



Just Added



- Compact design, miniature single switch
- User configurable SPST-NO or SPST-NC operation
- Reliable reed switch contacts
- WRAS approval
- Many variants are UL recognized, components file number E171218

Mounting is in the top or bottom of the tank from the inside. Switch action may be reversed by removing the float, inverting it and then refitting it to the stem. PPS type gives good chemical absorption resistance, withstands continuous exposure to boiling water. Switching power max: 25VA. Switching voltage max: 240VAC; 120VAC. Switching current max: 0.6A.

M12 THREAD 25 WATTS

Mfg. Part No.	Body Mat'l.	Must Close (mm)	Must Open (mm)	Max. Temp. (°C)	Stock No.	Price Each
						1-4
● RSF53Y100RC	Nylon	11.5	22.5	75	31B4771	15.96
● RSF56Y100RC	PPS*	9.5	20.5	120	89C7875	17.14
● RSF58Y100RC	Polypropylene	15	26	100	31B4773	15.24

1/8" NPT TAPERED THREAD 25 WATTS

● RSF53Y100R1/8	Nylon	11.5	22.5	75	45M5560	15.87
● RSF56Y100R1/8	PPS*	9.5	20.5	120	72C5815	16.84
● RSF58Y100R1/8	Polypropylene	15	26	100	45M5561	16.92

➤ CONTINUED ➤

LIQUID LEVEL SENSORS — VERTICAL MOUNT (CONT.)

M12 THREAD 100 WATTS

Mfg. Part No.	Body Mat'l.	Must Close (mm)	Must Open (mm)	Max. Temp. (°C)	Stock No.	Price Each
						1-4
● RSF53H100RC	Nylon	11.5	22.5	75	06R1522	18.34
● RSF56H100RC	PPS*	9.5	20.5	120	06R1526	21.89
● RSF58H100RC	Polypropylene	11.5	26	100	06R1528	19.44
● RSF56H050TB	PPS*	9.5	20.5	120	06R1524	24.08
● RSF56H100RB	PPS*	9.5	20.5	120	06R1525	21.89

1/4" NPT 100 WATTS

● RSF53H100R1/8	Nylon	11.5	22.5	75	06R1523	18.34
● RSF56H100R1/8	PPS*	9.5	20.5	120	06R1527	21.89
● RSF58H100R1/8	Polypropylene	15	26	100	06R1529	19.44

*Polyphenylene Sulphide (94477)

LIQUID LEVEL SENSORS

Just Added



Fig. 1

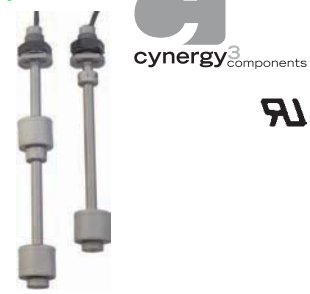


Fig. 2

- Maximum insertion depth: 450mm
- Insertion depth can be increased by using extension tubes (306mm long including connection adapter)
- 3 extension tubes can be used to achieve a maximum insertion depth of 1350mm

The extension tube is fitted by initially removing the cable gland from the float switch and screwing the extension tube to the float switch. The cable gland is then reassembled into the end of the extension tube. The float switch is mounted at the desired level using the clamp supplied. Float material: polypropylene. Stem material: polyphenylene sulphide. Tube material: PVC class 7. Cable length: 1.5m. Switching power max: 25VA. Switching current max: 0.6A. Switching voltage: 240VAC, 120VAC. Mfg. part no. RSF64BXS with SPST-NC contacts also available; go online or call.

VARIABLE INSERTION DEPTH SENSORS

Mfg. Part No.	Fig.	Contact Form	Max. Temp. (°C)	Min. Fluid SG	Stock No.	Price Each		
						1-4	5-14	15-24
● RSF64BXS	1	SPST-NO	75	0.65	45M5562	49.49	47.19	45.66

SINGLE FLOAT SENSORS

Mfg. Part No.	Fig.	Upper Switch Level (mm)	Lower Switch Level (mm)	Total Length (mm)	Stock No.	Price Each		
						1-4	5-14	15-24
● RSF66A25B75	2	30	75	102	89C7882	40.20	38.34	37.09
● RSF66A25B100	2	30	100	127	39C0110	40.20	38.34	37.09
● RSF66A25B125	2	30	125	152	89C7879	40.20	38.34	37.09
● RSF66A25B150	2	30	150	177	89C7880	40.20	38.34	37.09
● RSF66A25B175	2	30	175	202	89C7881	40.20	38.34	37.09

DUAL FLOAT SENSORS

● RSF66A50A100*	2	50	100	134	97J7500	44.86	42.78	41.39
● RSF66B50B100+	2	50	100	127	73J8183	44.86	42.78	41.39
● RSF66A50A150*	2	50	150	184	96H5716	44.86	42.78	41.39
● RSF66B50B150+	2	50	150	177	97J7501	44.86	42.78	41.39

ACCESSORY

Mfg. Part No.	Description	Stock No.	Price Each		
			1-4	5-14	15-24
● RSF64EXT	306mm Extension Tube	92F4699	11.35	10.83	10.48

* For emptying. + For filling.
(94478)

Huge Expanded Selection of Semiconductors

(148843)

Go online to find new technologies and proven solutions from world-class and specialist suppliers.

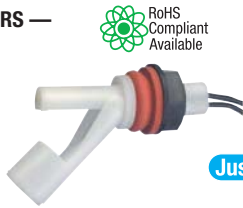
SENSORS – LIQUID LEVEL

LIQUID LEVEL SENSORS —
HORIZONTAL MOUNT

Just Added



- Quick installation
- Ideal for tanks with inaccessible tops or bottoms
- Many UL recognized components, file number E171218



RS70 series is designed for external fitting, achieving liquid tightness with high grade compression seal and **RS80 series** is designed for external mounting, achieving a seal with a 1/2" NPT taper thread. Avoids need for access to inside of chamber. Ideally suited to uses where space or fitting time are prime considerations. Manufactured in a variety of materials with nitrile gaskets to suit most commonly used liquids. SPST-NO contacts. Switch action may be reversed by mounting the device with the orientation arrow pointing downwards, instead of the normal upwards direction. Minimum fluid SG: 0.85. Cable length: 1.0m. Cable size: 16/0.2 20AWG. Switching power max: 25VA. Switching current max: 0.6A. Switching voltage: 240VAC, 120VDC.

COMPRESSION SEAL 25 WATTS

Mfg. Part No.	Body Mat'l.	Must Close (mm)	Must Open (mm)	Max. Temp. (°C)	Stock No.	Price Each		
						1-4	5-14	15-24
● RSF73Y100RN	Nylon	7	20	75	99B1523	15.17	14.47	14.00
● RSF78Y100RN	Polypropylene	8	20	100	99B1525	14.44	13.77	13.33
● RSF76Y100RN	PPS*	9	24	120	99B1528	16.46	15.69	15.18

COMPRESSION SEAL 100 WATTS

● RSF73H100RN	Nylon	7	20	75	06R1530	17.97	17.14	16.58
● RSF76H050TV	PPS*	9	24	120	06R1531	23.81	22.70	21.97
● RSF76H100RN	PPS*	9	24	120	06R1532	21.65	20.65	19.98

1/2" NPT TAPER THREAD SEAL

● RSF83Y100R	Nylon	7	20	75	31B4778	13.20	12.58	12.18
● RSF88Y100R	Polypropylene	8	20	100	92F4695	13.97	13.32	12.89
● RSF86Y100R	PPS*	9	24	120	91B1442	16.73	15.95	15.43

*Polyphenylene Sulphide
(94469)

LIQUID LEVEL SENSORS —
HORIZONTAL MOUNT

Just Added



- Quick installation
- Ideal for tanks with inaccessible tops or bottoms
- Many variants are UL recognized, components file number E171218
- Compact external mount with 1/2" taper thread



RS80 series is designed for external mounting, achieving a seal with a 1/2" NPT taper thread. Avoids need for access to the inside of the chamber and is ideally suited to applications where space or fitting time are prime considerations. Manufactured in a variety of materials with nitrile gaskets to suit most commonly used liquids. SPST-NO contacts. Switch action may be reversed by mounting the device with the orientation arrow pointing downwards, instead of the normal upwards direction. Minimum fluid SG: 0.85. Cable length: 1.0m. Cable size: 16/0.2 20AWG. Switching power max: 25VA. Switching current max: 0.6A. Switching voltage: 240VAC, 120VDC.

25 WATTS

Mfg. Part No.	Body Mat'l.	Must Close (mm)	Must Open (mm)	Max. Temp. (°C)	Stock No.	Price Each	
						1-4	
● RSF83Y100R	Nylon	7	20	75	31B4778	13.20	
● RSF88Y100R	Polypropylene	8	20	100	92F4695	13.97	
● RSF86Y100R	PPS*	9	24	120	91B1442	16.73	

100 WATTS

● RSF83H100R	Nylon	7	20	75	06R1534	15.62	
● RSF86H100R	PPS*	9	24	120	06R1536	19.81	
● RSF86H050T	PPS*	9	24	120	06R1535	21.77	
● RSF88H100R	Polypropylene	8	20	100	06R1537	16.55	

*Polyphenylene Sulphide
(94470)

LIQUID LEVEL SENSORS —
HORIZONTAL MOUNT

50cm XLPE Wires



Plug and Socket Connection

- Compact external fitting with 1/2" npt taper thread
- Stainless steel
- Temperature range to 120°C

- User configurable SPST-NO or SPST-NC action by rotating switch 180°

➔ CONTINUED ➔

LIQUID LEVEL SENSORS — HORIZONTAL MOUNT (CONT.)

SSF212 series horizontally mounted switches mount externally in the side of the tank with a 1/2" NPT (fits 1/2") BSP thread. Manufactured in 304 grade stainless steel for those liquids in environments that require the use of stainless steel and will work in liquids of SG 0.8 min. Switch action may be reversed by mounting the device with the orientation arrow pointing downwards, instead of the normal upwards direction. Float and stem material: 304 grade. Maximum pressure: 5 bar. Float SG: 0.7. Cable length - standard: 500mm. Cable size: 17/0.10 - 22 AWG. Cable conductor material: tinned copper. Cable temperature rating: 125°C. Switching power max: 50VA. Switching current max: 0.5A. Switching voltage: 300VAC, 300VDC.

Mfg. Part No.	Max. Temp. (°C)	Min. Fluid SG	Leadouts	Stock No.	Price Each		
					1-4	5-14	15-24
● SSF212X050	120	0.8	50cm XLPE Wires	97J7616	72.54	69.18	66.93
● SSF212XP	120	0.8	Plug and Socket Connection	97J7615	81.83	78.04	75.51

(94459)

LIQUID LEVEL SENSORS —
VERTICAL MOUNT

- Miniature internal fit
- 316 grade stainless steel
- Temperature range to 120°C
- User configurable SPST-NO or SPST-NC action
- High temperature internal fitting
- Temperature range to 200°C
- Will work in liquids of SG 0.65 min.



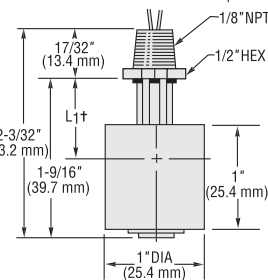
SF22 series is a compact vertically mounted device designed to achieve reliable switching. Mounting is in the top or bottom of the tank from the inside. Switch action may be reversed by removing the float, inverting it and then refitting it to the stem. Mounting thread: 1/8" BSP. Maximum pressure: 10 bar. Float SG: 0.7. Cable length - standard: 350mm. Cable size: 17/0.10 - 22 AWG. Cable conductor material: tinned copper. Cable temperature rating: 125°C. Tightening torque for fixing nut: 2.0kg/cm. Switching power max: 50VA. Switching current max: 0.5A. Switching voltage: 300VAC, 300VDC. Breakdown voltage min: 600VDC. **SSF26 series** is a vertically mounted device designed to achieve reliable switching at higher temperatures. Mounting is in the top or bottom of the tank from the inside. Switch action may be reversed by removing the float, inverting it and then refitting it to the stem. Typical application is in deep frying oil tanks. Mounting thread 3/8" BSP. Maximum pressure: 10 bar. Float SG: 0.55. Cable length - standard: 350mm. Cable size: 17/0.10 - 22 AWG. Cable conductor material: tinned copper. Cable temperature rating: 200°C. Tightening torque for fixing nut: 2.0kg/cm. Switching power max: 50VA. Switching current max: 0.5A. Switching voltage: 300VAC, 300VDC. Breakdown voltage min: 600VDC.

Mfg. Part No.	Max. Temp. (°C)	Min. Fluid SG	Leadouts	Mounting Thread	Stock No.	Price Each	
						1-4	5-14
● SSF22X035	120	0.8	35cm XLPE Wires	1/8" BSP	97J7618	72.08	68.84
● SSF26X035	200	0.65	35cm XLPE Wires	3/8" BSP	97J7620	138.82	132.58

(94462)

LS-3 SERIES
PLASTIC LIQUID
LEVEL SWITCHES

Our Experience • Your Solution



- SPST, 20VA, 120-240VAC

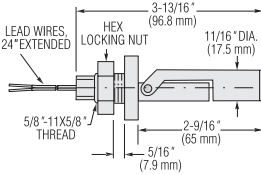
Polysulfone float for water based liquids with limited use in oils and chemicals. Polypropylene float (hollow) features a low specific gravity float offering broad chemical compatibility. Mounting type: 1/8" NPT. UL recognized, CSA certified, CE compliant.

Mfg. Part No.	Material		Min. Liq. Sp. Gr.	Pressure** PSI/Bar Max.	Stock No.	Price Each
	Stem and Mounting	Float				
● 42295	Polysulfone	Polysulfone	0.75	50/3	92C8773	30.00
● 142505	Polypropylene	Polypropylene (Hollow)	0.60		92C8697	30.00
● 116826		Polypropylene (Solid)	0.90	150/10	92C8681	30.00

**Maximum Pressure @ 70°F (30°C)
(72568)

SENSORS – LIQUID LEVEL

LS-7 SERIES PLASTIC SIDE MOUNT LIQUID LEVEL SWITCHES

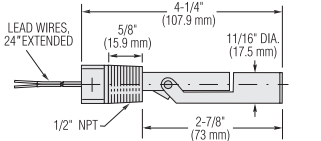


Type 3

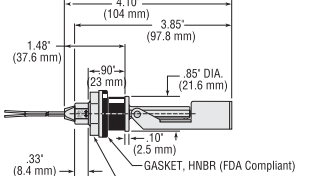


Type 7

- Switch Type SPST, Rated 130VAC, 20VA
- Operating Pressure: 100 psi @ 70°F (Except Mounting Type 10, 50 psi @ 70°F)
- Ideal for High Volume Use in Small Tanks and Vessels



Type 5

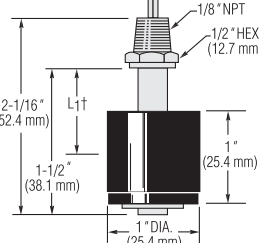


Type 10

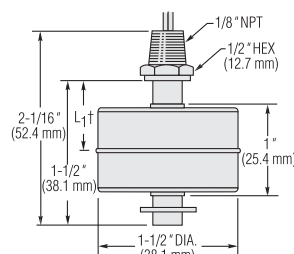
Mfg. Part No.	Mounting Type	Materials		Min. Liq. Sp. Gr.	Operating Temperature	Stock No.	Price Each 1-9
		Stem and Mounting	Float				
165570	3	Nylon (13% Glass)		0.65	-40°F to +250°F	92C8718	36.80
164520		Polypropylene (20% Glass)		0.55	-40°F to +225°F	92C8716	36.80
131100	5	Polypropylene (20% Glass)		0.55	-40°F to +225°F	92C8695	35.65
140620		Nylon (13% Glass)		0.65	-40°F to +250°F	92C8696	35.65
201 2A		Versaplast®		0.80	-40°F to +300°F	92C8735	36.80
160450	7	Polypropylene		0.55	-40°F to +225°F	92C8714	35.65
160460		Nylon		0.65	-40°F to +250°F	92C8715	35.65
165800	10	Polypropylene (20% Glass)		0.55	-40°F to +225°F	92C8719	37.95
165900		Nylon (13% Glass)		0.65	-40°F to +250°F	02H2894	38.12

(72563)

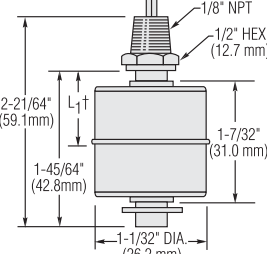
LS-1700 SERIES ALLOY LIQUID LEVEL SWITCHES



01701 and 01702



01750 and 79990



01755

- Switch: SPST, 20VA
- UL Recognized, CSA Certified, CE Compliant

Ideal for shallow tanks or restricted spaces. LS-1700 series offers broad chemical compatibility for general purpose use. Ideal for oils and water. The LS-1750 and LS-1755 series are rugged construction suitable for most corrosive liquids and for high temperatures and pressures.

➤ CONTINUED ➤

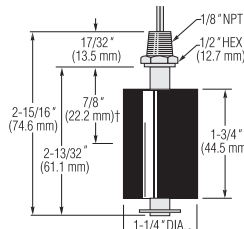
LS-1700 SERIES ALLOY LIQUID LEVEL SWITCHES (CONT.)

Mfg. Part No.	Material			Min. Liq. Sp. Gr.	Operating Temperature	Stock No.	Price Each 1-9
	Stem and Mounting	Float	Other Wetted				
01701	Brass	Buna N	316 SS, Epoxy	0.45	Water: to 180°F Oil: -40°F to +230°F	92C8672	41.07
01702	316 SS					92C8673	68.82
01750	316 SS	316 SS	316 SS	0.70	-40°F to +300°F	92C8674	78.81
01755				0.90	-40°F to +300°F	92C8675	78.81

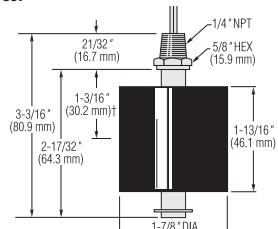
LS-1800 AND LS-1900 SERIES ALLOY LIQUID LEVEL SWITCHES



LS-01807



LS-01801



LS-01901

- Buna N Float
- Pressure, psi, Max.: 150
- Operating Temperature: Water to 180°F, Oil -40°F to +230°F
- Electrical Termination: No. 18AWG, 24" L., Polymetric Lead Wires
- UL Recognized, Except Where Noted Below

LS-1800 and LS-1900 series switches offer excellent stability for general use in oils and waters. Along with their large float displacement, these switches withstand rough service and are suitable for high viscosity liquids.

LS-1800 SERIES

Mfg. Part No.	Material			Min. Liq. Sp. Gr.	Switch SPST	Stock No.	Price Each 1-9
	Stem and Mounting	Float	Other Wetted				
01801	Brass	Buna N	316 SS, Hysol	0.75	20VA	92C8676	44.52
35651					100VA**	92C8770	56.18
01807	316 SS				20VA	92C8677	72.08

LS-1900 SERIES

01907	316 SS	Buna N	316 SS	0.55	20VA	92C8679	77.38
35682		Buna N	316 SS	0.55	100VA**	92C8772	86.92

** 100VA switches are not UL recognized (72566)

LS-1950 SERIES ALLOY LIQUID LEVEL SWITCHES



- Stem and Mounting Material: 316 Stainless Steel
- Minimum Liquid Sp. Gr.: 0.80
- Pressure, Maximum: 750 psi
- 2 1/16" diameter (52.4mm)
- 1/4" NPT port

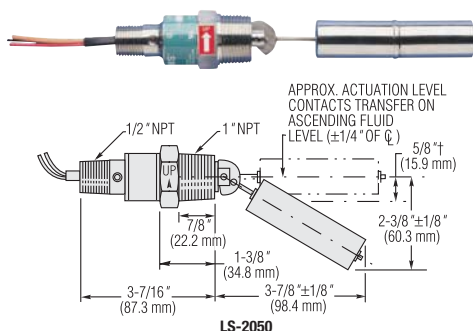
For high performance applications, these models provide high temperature and pressure capabilities. Construction materials comply with FDA food contact regulations. Exceptionally accurate for higher temperatures and in pressurized or corrosive liquids. For oils, water and chemicals. UL recognized, CSA certified, CE compliant.



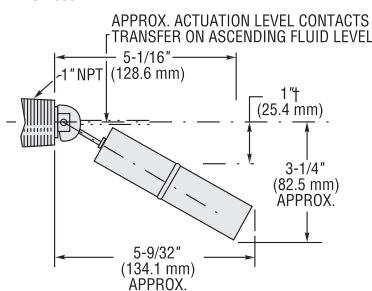
Mfg. Part No.	Operating Temperature	Switch	Stock No.	Price Each 1-9
01950	-40°F to +300°F	SPST, 20VA	92C8680	84.75
26717	-40°F to +300°F	SPST, 100VA**	92C8756	92.66
79999	-40°F to +480°F	SPST, 20VA	92C8795	131.08

** 100VA switches are not UL recognized or CSA certified (72567)

SENSORS – LIQUID LEVEL

LS2050/52100 SERIES
ALLOY SIDE MOUNT
LIQUID LEVEL SWITCHES

These units solve the problem of point level sensing in tanks with inaccessible tops or bottoms or at intermediate locations in larger tanks. Operation is positive and dependable. The float pivots with changing liquid level, displacing a shuttle which magnetically actuates a hermetically sealed switch within the unit. Installation is through the tank side at the detection point.



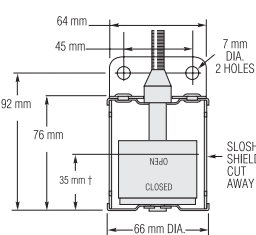
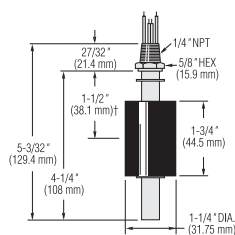
LS-2050 SERIES

Mfg. Part No.	Material		Min. Liq. Sp. Gr.	Switch	Stock No.	Price Each	
	Stem and Mounting	Float				1-9	
30288	Brass	Buna N	0.80	SPDT, 20VA	92C8766	197.16	

LS-52100 SERIES

52100	316 SS	304 SS	0.85	SPDT, 20VA	92C8779	276.66	
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(72569)

TH800 AND LS-270
SERIES SPECIALTY
LEVEL SWITCHES

- Maximum Pressure: 150 psi
- UL Recognized, CSA Certified

TH800 series temperature level switch is a level monitoring and temperature switch in a single unit. It is intermediate in size and has a single-setting temperature sensor at the bottom of its stem. **LS-270 series** bracket mounting slosh shield is small, lightweight and extremely stable in nonstatic, highly contaminated liquids. Slosh shielding minimizes effects of turbulence and helps prevent interference by foreign material. Bracket-mounted to any convenient surface.

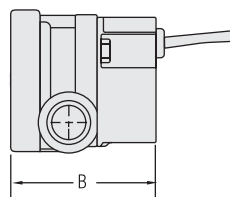
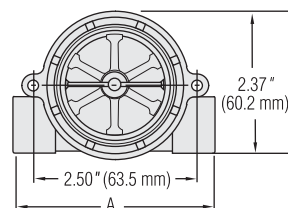
TH800 SERIES — SPST - 20VA, N.O.

Mfg. Part No.	Material		Min. Liq. Sp. Gr.	Temperature Logic	Stock No.	Price Each	
	Stem and Mounting	Float				1-9	
57143	Brass	Buna N	0.75	N.C., Open on +150°F	92C8780	84.80	

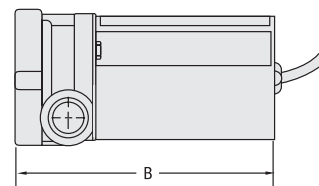
LS-270 SERIES

Mfg. Part No.	Material		Min. Liq. Sp. Gr.	Switch Level SPST	Stock No.	Price Each	
	Stem and Mounting	Float				1-9	
43765	304 SS	Buna N	0.55	20VA, N.O.	92C8775	127.20	
43760	304 SS	Buna N	0.55	20VA, N.C.	92C8774	127.20	

(72570)

RFS TYPE FLOW SET
POINT SWITCHES

VDC Versions



VAC Versions

- Combines Visual Confirmation of Flow with Dynamic, Electronic Switch Operation
- Adjustable Switch Point Calibration: A Local LED Signals When Set Point is Reached
- Operating Temperature: Polypropylene - 20 - +180°F; Brass - 20 - +212°F

Mfg. Part No.	Body Material	Port Size NPT	Flow Range GPM	Dimensions (Inches)		Stock No.	Price Each
				A	B		
155425	Polypropylene	0.25"	0.1 to 5.0	3.06	2.38	92C8702	177.48
155876				3.06	4.50	92C8706	200.94
155485				3.06	2.38	92C8705	177.48
156266	Brass	0.25"	0.1 to 5.0	3.01	4.50	92C8711	260.10
156268				3.01	2.32	92C8712	236.64
156269		0.50"	1.5 to 20.0	3.01	4.50	92C8713	260.10
180395				3.94	2.95	92C8738	236.64
180396		0.75"	5.0 to 30.0	3.94	4.76	92C8739	260.10
181689				3.94	4.76	92C8742	260.10

(72571)

LLE SERIES LIQUID
LEVEL SENSORS

Honeywell

Sensing and Control

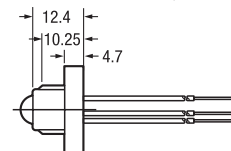


Fig. 1

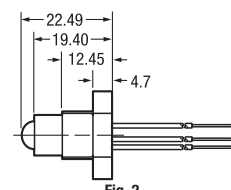


Fig. 2

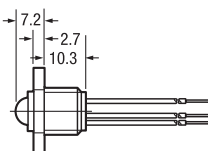


Fig. 3

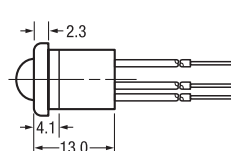


Fig. 4

Features:

- Accurate Repeatable Switching Point
- Microprocessor Compatible
- Reverse Polarity, Over Voltage, Short Circuit and Transient Protection

Specifications:

- Termination: 250mm Flying Leads
- Operating Temperature: -25°C to 80°C (standard); -40°C to 125°C (high temperature)
- Supply Voltage (V_{CC}): +5VDC to +12VDC ±5%
- Supply Current (mA): 15mA Nominal (standard temperature) 5mA Nominal (high temperature)

Liquid level sensors incorporate a phototransistor trigger which provides a digital output that denotes the presence or absence of liquid. LED and phototransistor are housed within a plastic dome at the head of the device. When no liquid is present, light from the LED is internally reflected from the dome to the phototransistor. When liquid covers the dome, the

▶ CONTINUED ▶

SENSORS – LIQUID LEVEL • SENSORS – MOTION • SENSORS – MAGNETIC

LLE SERIES LIQUID LEVEL SENSORS (CONT.)

effective refractive index at the dome-liquid boundary changes, allowing some light from the LED to escape. Therefore, the amount of light received by the phototransistor is reduced and the output switches, indicating the presence of liquid, making this method of liquid level sensing very fast, and almost instantaneous for water.

STANDARD TEMPERATURE

Mfg. Part No.	Fig.	Description	Stock No.	Price Each	
				1-24	25-49
● LLE101000	1	Screw-In M12 Thread (Type 1)	31H9782	34.41	31.42
● LLE102000	2	Screw-In M12 Thread (Type 2)	19M9540	37.22	34.97
● LLE103000	3	Screw-In M12 Thread (Type 3)	10M8430	28.04	26.35
● LLE105000	4	Push-In (Type 5)	05M0500	37.22	34.97

HIGH TEMPERATURE

Mfg. Part No.	Fig.	Description	Stock No.	Price Each	
				1-24	25-49
● LLE101101	1	Screw-In M12 Thread (Type 1)	65K8989	44.48	40.42
● LLE102101	2	Screw-In M12 Thread (Type 2)	37K6789	60.72	55.18
● LLE103101	3	Screw-In M12 Thread (Type 3)	65K8990	40.99	38.52
● LLE105100	4	Push-In (Type 5)	65K8991	38.31	36.00

(74823)

MP MOTION SENSOR (PASSIVE INFRARED TYPE) NAPION

**Panasonic**

Panasonic Electric Works Corporation of America

Just Added



Standard Detection



Slight Motion



Spot Detection



10m Detection

Features:

- One of the smallest with a built-in amplifier
- Dual lens color are available
- Both digital output and analog output
- Detect even slight motion of a person
- Noise withstanding capability

Applications:

- Home appliances
- Amusement machine market
- Equipment in service market
- Lighting market

Mfg. Part No.	Detection Type	Sensor Output	Sensing Range	Detection Angle	Stock No.	Price Each
● AMN21111	Standard Detection	Analog	0-5m	100°	11N1047	34.55
● AMN31111	Standard Detection	Digital	0-5m	100°	11N1055	22.70
● AMN41121*	Standard Detection	Digital	0-5m	100°	11N1063	35.24
● AMN32111	Slight Motion	Digital	0-2m	91°	11N1057	22.70
● AMN33111	Spot Detection	Digital	0-5m	38°	11N1059	22.70
● AMN34111	10m Detection	Digital	0-10m	110°	11N1061	24.21

* Low current consumption (148754)

HMC100x AND 102x SERIES LOW FIELD LINEAR MAGNETIC SENSORS

**Honeywell**

- Small, low cost, high sensitivity and high reliability, solution for low field magnetic sensing
- Solid state devices reduce board assembly costs
- HMC102x family used for automotive and handheld compassing
- HMC100x family for vertical axis sensing and altitude reference

1-AXIS

Mfg. Part No.	Field Range (gauss)	Resolution (µgauss)	Sensitivity (mV/V)	Package	Stock No.	Price Each
● HMC1001-RC	±2	27	3	8-SIP	50M1776	20.76
● HMC1021D	±6	85	1	8-DIP	30K6321	257.77
● HMC1021S	±6	85	1	8-SIP	91B5181	6.06

2-AXIS

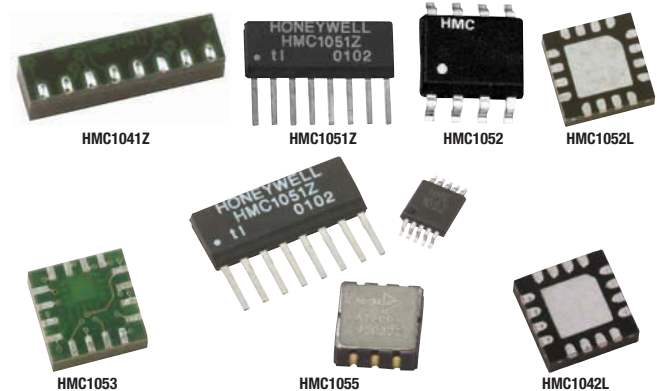
● HMC1002-RC	±2	27	3	20-SOIC	14M8111	24.22
● HMC1022	±6	85	1	16-SOIC	91F4715	12.11

(90091)

HMC104X/HMC105X SERIES ULTRA SMALL 1-, 2-, AND 3-AXIS MAGNETIC SENSORS

**Honeywell**

Just Added



Features:

- Surface mount packages: Compact, reliable solution for low field magnetic sensing
- 4-element wheatstone bridge converts magnetic fields to differential output voltages
- Low voltages operations

Specifications:

- HMC1055 combines HMC1051Z 1-axis and HMC1052 2-axis MEMSIC MX3334UL accelerometer in a single kit

Z-AXIS

Mfg. Part No.	Field Range (gauss)	Resolution (mgauss)	Sensitivity (mV/V)	Package	Stock No.	Price Each
● HMC1041Z	±6	120	1	8-LPCC	28K2340	7.26

1-AXIS

HMC1051Z-RC	±6	120	1	8-SIP	50M1778	29.04
HMC1051ZL	±6	120	1	8-LPCC	01J3095	29.04

2-AXIS

● HMC1052L	±6	120	1	8-LCC	73H4227	29.04
● HMC1042L	±6	120	1	16-LPCC	84K2730	29.04

3-AXIS

HMC1053	±6	120	1	16-LCC	26H2816	96.80
● HMC1043	±6	120	1	16-LPCC	08P3877	60.50

(91175)

3-AXIS MAGNETOMETERS

Features:

- Measure both magnetic field intensity and direction
- Small size and high sensitivity
- Ideal for compassing and navigation, security systems and lab instrumentation

Specifications:

- HMR2300 development kit includes one magnetometer module in aluminum enclosure, cabling with power supply, Windows demonstration software for remote PC, and users guide



HMC2003



HMR2300

Mfg. Part No.	Field Range (gauss)	Output	Resolution	Package	Stock No.	Price Each
HMC2003	±2	Analog	40	20-DIP	16F5425	268.60
HMR2300 DEMO KIT	±2	RS232	67	...	34C2812	888.75
HMR2300-D21-232	±2	RS232	67	...	16F5423	908.50
HMR2300-D21-485	±2	RS232	67	...	16F5424	908.50

(91176)

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(148886)

SENSORS – MAGNETIC • SENSORS – OPTICAL

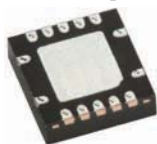
HMC SERIES DIGITAL COMPASS SOLUTIONS



Features:

- HMC6052 combines magneto-resistive sensor plus amplifiers and analog support features
- 2 channels of amplified sensor signals
- Set switch functions allow easy-to-implement solutions
- HMC6352 uses I2C serial interface supply heading data to host processors
- Ideal for consumer electronics applications
- Contains firmware heading computation and calibration

Honeywell



HMC6052

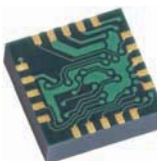
Mfg. Part No.	Description	Size	Field Range (gauss)	Package	Stock No.	Price Each
						1-4
● HMC6052	2-Axis, PCB Module	3.5x3.5x0.8mm	±2	14-LCC	30K6322	32.40
HMC6352	2-Axis, PCB Module	6.5x6.5x1.4mm	±2	24-LCC	83H6761	25.92

(70806)

3-AXIS DIGITAL COMPASS IC HMC SERIES

Just Added

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Features:

- 3-Axis Magnetoresistive Sensors and ASIC in a single package
- Low Cost
- 4.0 x 4.0 x 1.3mm low height profile LCC surface mount package
- Low voltage operations (2.4 to 3.3V)
- built-in strap circuits
- I2C digital interface
- Lead free package construction
- Wide magnetic field range (+/-6 Oe)

Specifications:

- Supply Voltage: AVDD referenced to AGND 2.4, 3.0, 3.3 Volts, DVDD referenced to DGND 1.62 - 1.98 Volts
- Magnetic Sensor: Field range, Full scale (FS) - total applied field -4 to +4
- ASIC Digital: Measurement period, Output Rate = 50Hz (10Hz typ) 10 msec max.
- Mux/Amplifier Section: Mag Dynamic range, 3-bit gain control, +/-0.7 to +/-4 gauss
- Bandwidth: -3dB 10 kHz
- Operating Ambient Temperature: -30 to 85°C

Benefits:

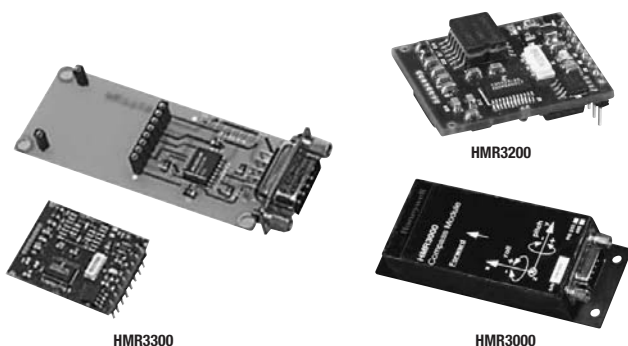
- Easy to assemble
- Popular two-wire serial data interface for consumer electronics

Mfg. Part No.	Description	Stock No.	Price Each
			1-4
● HMC5843	Surface mount 3-axis magnetic sensor designed for low field magnetic sensing with a digital interface	06R2312	72.60
● HMC5843-EVAL	HMC5843 part on a pin out board for ease of prototyping	11R0675	181.50
● HMC5843-DEMO	Demonstration board for the 3-axis Compass IC provides the HMC5843 plus serial bus conversion circuits to convert the IC data to USB interfacing to personal computers. Includes a 6-ft USB cable.	11R0674	459.80

(148725)

HMR SERIES DIGITAL COMPASS SOLUTIONS

Honeywell



HMR3200

HMR3300

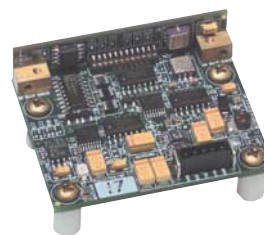
HMR3000

➤ CONTINUED ➤

HMR SERIES DIGITAL COMPASS SOLUTIONS (CONT.)



HMR3400



HMR3500

Specifications:

- HMR Development kits includes HMR digital compass, circuit card with RS232 output, cabling with power supply, Windows demonstration software for remote PC, and users guide
- HMR3500 Development kits includes DB9 data and power cable, RS232 interface, Windows CompassHost software, and manual with software protocol message descriptions

Mfg. Part No.	Description	Size	Tilt Range	Stock No.	Price Each
					1-4
HMR3200	2-Axis, PCB Module, UART Output	1"x1.45"x0.4"	...	34C2815	379.20
HMR3200 DEMO KIT	2-Axis, PCB Module, with Development Kit	1"x1.45"x0.4"	...	34C2816	434.50
HMR3000	3-Axis, Tilt Compensated, RS232 Output	1.5"x4.2"x0.88"	±40°	34C2813	821.60
HMR3000D00485	3-Axis, Tilt Compensated, RS485 Output	1.5"x4.2"x0.88"	±40°	49H6711	829.50
HMR3000 DEMO KIT	3-Axis, Tilt Compensated, RS232 Output with Development Kit	1.5"x4.2"x0.88"	±40°	34C2814	916.40
HMR3300	3-Axis, Tilt Compensated, PCB Module only	1"x1.45"x0.4"	±60°	34C2817	450.30
HMR3300-D00-232	3-Axis, Tilt Compensated, PCB Module and RS232 Motherboard	1"x1.45"x0.4"	±60°	92H7099	474.00
HMR3400	3-Axis, Tilt Compensated, PCB Module only	0.6"x1.5"	±60°	84K2741	410.80
HMR3500	3-Axis, Tilt Compensated, PCB Module only	2"x1.5"x0.5"	±80°	74K2363	900.60
HMR3300 DEMO KIT	3-Axis, Tilt Compensated, PCB Module with Development Kit	1"x1.45"x0.4"	±60°	34C2818	513.50
HMR3500 DEMO	3-Axis, Tilt Compensated, PCB Module with Development Kit	2"x1.5"x0.5"	±80°	84K2742	1042.80

(91177)

LIGHT SENSORS NAPICA SERIES



Panasonic

Panasonic Electric Works Corporation of America

Features:

- Cadmium-free sensor with spectral response
- Built-in optical filter for spectral response similar to that of the human eye
- Photocurrent is proportional to illumination
- Uses environmentally friendly silicon chips
- Lead-free
- SMD or through hole package

Specifications:

- LCD devices
- Residential lighting
- Household appliances

Just Added



SMD



Through Hole

Mfg. Part No.	Photo Current (μA)	Termination	Stock No.	Price Each
				Each
● AMS104Y	260	SMD	11R8530	...
● AMS302	260	Through Hole	11N1073	2.22

(148755)

SENSORS – PHOTOELECTRIC

WORLD-BEAM® QS18
UNIVERSAL COMPACT SENSORS

- Easily Fits (or Retrofits) Almost Any Mounting Situation
- Exceptional Optical Performance, Comparable to Larger "Mini-Style" or Barrel Sensors
- Bright LED Operating Status Indicators Are Visible from 360°
- Rugged Sealed Housing, Protected Circuitry
- Supply Voltage: 10 - 30VDC
- All Models Less than 1ms Output Response for Excellent Sensing Repeatability
- Temperature: -20°C to +70°C (except lasers: -10°C to +50°C)



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CE cULus

Mfg. Part No. Suffix	Height (mm)	Width (mm)	Depth (mm)
D, E, R, FF, LV, LP	35.0	15.0	31.0
DB, EB, RB, W	35.0	15.0	21.1
FP	35.0	15.0	27.5
CV15, CV45	35.0	15.0	33.2
F	35.0	15.0	36.9

OPPOSED MODE EMITTER (E) AND RECEIVER (R) - INFRARED LED

Mfg. Part No.	Range	Cable	Output Type	Stock No.	Price Each
QS18E	20m (66')	2m (6.5') 2-Wire	N/A	02H6905	41.50
QS18VN6R	20m (66')	2m (6.5') 4-Wire	NPN	02H6897	62.25
QS18VP6R	20m (66')	2m (6.5') 4-Wire	PNP	02H6904	62.25

POLARIZED RETROREFLECTIVE MODE - VISIBLE RED LED

QS18VN6LP	3.5m (12')	2m (6.5') 4-Wire	NPN	02H6896	70.98
QS18VP6LP	3.5m (12')	2m (6.5') 4-Wire	PNP	02H6903	70.98

DIFFUSE MODE - CLASS 1 LASER

QS18VN6LD	300mm (12')	2m (6.5') 4-Wire	NPN	34K9447	114.66
QS18VP6LD	300mm (12')	2m (6.5') 4-Wire	PNP	34K9474	114.66

POLARIZED RETROREFLECTIVE MODE - CLASS 1 LASER

QS18VN6LLP	0.1 to 10m (0.33 to 33')	2m (6.5') 4-Wire	NPN	78K9075	132.14
QS18VP6LLP	0.1 to 10m (0.33 to 33')	2m (6.5') 4-Wire	PNP	39K6104	132.14

CONVERGENT MODE - VISIBLE RED LED

QS18VN6CV15	16mm (0.63")	2m (6.5') 4-Wire	NPN	02H6892	70.98
QS18VP6CV15	16mm (0.63")	2m (6.5') 4-Wire	PNP	02H6899	70.98
QS18VN6CV45	43mm (1.7")	2m (6.5') 4-Wire	NPN	02H6893	70.98
QS18VP6CV45	43mm (1.7")	2m (6.5') 4-Wire	PNP	02H6900	70.98

DIFFUSE MODE - INFRARED LED

QS18VN6D	450mm (18")	2m (6.5') 4-Wire	NPN	02H6894	70.98
QS18VP6D	450mm (18")	2m (6.5') 4-Wire	PNP	02H6901	70.98

FIXED-FIELD MODE - VISIBLE RED LED

QS18VN6FF50	50mm (2")	2m (6.5') 4-Wire	NPN	99H1088	79.72
QS18VN6FF100	100mm (4")	2m (6.5') 4-Wire	NPN	99H1082	79.72
QS18VP6FF50	50mm (2")	2m (6.5') 4-Wire	PNP	99H1107	79.72
QS18VP6FF100	100mm (4")	2m (6.5') 4-Wire	PNP	99H1101	79.72

PLASTIC FIBER-OPTIC MODE - VISIBLE RED LED

QS18VN6FP	Varies	2m (6.5') 4-Wire	NPN	02H6895	70.98
QS18VP6FP	Varies	2m (6.5') 4-Wire	PNP	02H6902	69.16

MOUNTING BRACKETS

Mfg. Part No.	Description	Stock No.	Price Each
SMB18A	90°, Stainless Steel 2-Axis, 18mm	02H7579	3.18
SMB18SF	18mm Plastic, Swivel Mount Bracket	02H7580	7.40

(73570)

WORLD-BEAM® QS18 AC/DC
UNIVERSAL VOLTAGE SENSORS

- Easily fits or retrofits almost any mounting configuration
- Exceptional optical performance in a compact right-angle housing
- 20 to 140V ac/dc or 20 to 270V ac/dc operation
- Bright LED operating status indicators, visible from 360°
- Rugged, sealed housing, protected circuitry, 1200 PSI washdown



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CE

OPPOSED — 940nm INFRARED

Mfg. Part No.	Range	Output Type	Feature	Stock No.	Price Each
QS18WE	20m	...	...	11R0613	62.78
QS18ANWR	20m	N-MOSFET	L.O.	11R0596	81.93
QS18RNWR	20m	N-MOSFET	D.O.	11R0608	81.93
QS18APWR	20m	P-MOSFET	L.O.	11R0600	81.93
QS18RPWR	20m	P-MOSFET	D.O.	11R0612	81.93

POLARIZED RETROREFLECTIVE — 660nm VISIBLE RED LED

QS18ANWLP	3.5m	N-MOSFET	L.O.	11R0595	90.44
QS18RNWLP	3.5m	N-MOSFET	D.O.	11R0607	90.44
QS18APWLP	3.5m	P-MOSFET	L.O.	11R0599	90.44
QS18RPWLP	3.5m	P-MOSFET	D.O.	11R0611	90.44

DIFFUSE-MODE — 624nm VISIBLE RED LED

QS18ANWDL	450mm	N-MOSFET	L.O.	11R0593	90.44
QS18APWDL	450mm	P-MOSFET	D.O.	11R0597	90.44
QS18RNWDL	450mm	N-MOSFET	L.O.	11R0605	90.44
QS18RPWDL	450mm	P-MOSFET	D.O.	11R0609	90.44

DIFFUSE-MODE — 850nm INFRARED

QS18ANWDXL	1m	N-MOSFET	L.O.	11R0594	90.44
QS18APWDXL	1m	P-MOSFET	D.O.	11R0598	90.44
QS18RNWDXL	1m	N-MOSFET	L.O.	11R0606	90.44
QS18RPWDXL	1m	P-MOSFET	D.O.	11R0610	90.44

(148732)

WORLD-BEAM® QS18
EXPERT SERIES SENSORS

- Expert-style Static and Dynamic TEACH options, plus Window, Light, and Dark SET, via push button or remote input
- Smart power-control algorithm to maximize performance in low-contrast applications
- Dark-Operate/Light-Operate select; selectable 30 ms output OFF-delay
- Less than 1 millisecond output response for excellent sensing repeatability
- Tough ABS housing is rated IEC IP67; NEMA 6
- Bright LED operating status indicators are visible from 360°



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CE NEMA
cULus IP67

POLARIZED RETROREFLECTIVE — 660nm VISIBLE RED LED

Mfg. Part No.	Range	Connection	Output Type	Stock No.	Price Each
QS18EN6LP	3.5m	4-wire 2 m (6.5') cable	NPN	21H5947	69.16
QS18EN6LPQ8	3.5m	4-pin Integral Euro-style QD	NPN	99H1068	69.16
QS18EP6LP	3.5m	4-wire 2 m (6.5') cable	PNP	21H5971	69.16
QS18EP6LPQ8	3.5m	4-pin Integral Euro-style QD	PNP	99H1074	69.16

DIFFUSE-MODE — 940nm INFRARED

QS18EN6D	800mm	4-wire 2 m (6.5') cable	NPN	21H5939	69.16
QS18EN6DQ8	800mm	4-pin Integral Euro-style QD	NPN	99H1067	69.16
QS18EP6D	800mm	4-wire 2 m (6.5') cable	PNP	21H5963	69.16
QS18EP6DQ8	800mm	4-pin Integral Euro-style QD	PNP	99H1073	69.16
QS18EN6DV	600mm	4-wire 2 m (6.5') cable	NPN	11R0601	69.16
QS18EN6DVQ8	600mm	4-pin Integral Euro-style QD	NPN	11R0602	69.16
QS18EP6DV	600mm	4-wire 2 m (6.5') cable	PNP	11R0603	69.16
QS18EP6DVQ8	600mm	4-pin Integral Euro-style QD	PNP	11R0604	69.16

(148734)

SENSORS – PHOTOELECTRIC

WORLD-BEAM® QS18
SERIES ADJUSTABLE-
FIELD SENSORS

Just Added

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Features:

- High-performance, low-cost adjustable-field sensors
- Adjustable-field sensing based on optical triangulation for applications where a bright background must be ignored
- Excellent optical performance throughout 30 - 250mm sensing range
- Narrow effective beam provides small-object detection and precise position control
- Crosstalk rejection algorithm protects against optical disturbances from adjacent sensors
- Visible Red LED or laser sensing beam
- 10 to 30VDC operation
- Bright LED operating status indicators are visible from 360°
- Compact, rugged sealed housing, protected circuitry

ADJUSTABLE-FIELD MODE - CLASS 1 LASER

Mfg. Part No.	Range	Cable	Output	Stock No.	Price Each
QS18VN6LAF	1mm to cutoff point (adjustable between 30-100mm)	4-wire, 2m integral cable	NPN	34K9442	147.00
QS18VP6LAF		4-wire, 2m integral cable	PNP	34K9469	147.00
QS18VN6LAFQ5		4-pin Euro-style QD	NPN	34K9446	160.00
QS18VP6LAFQ5		4-pin Euro-style QD	PNP	34K9473	160.00

ADJUSTABLE-FIELD MODE - CLASS 2 LASER

QS18VN6LAF250	20mm to cutoff point (adjustable between 50-250mm)	4-wire, 2m integral cable	NPN	51M6128	190.00
QS18VP6LAF250		4-wire, 2m integral cable	PNP	51M6151	190.00
QS18VN6LAF250Q		4-pin Euro-style QD	NPN	51M6130	202.00
QS18VP6LAF250Q		4-pin Euro-style QD	PNP	51M6153	202.00

ADJUSTABLE-FIELD MODE - VISIBLE RED LED

QS18VN6AF100	1mm (0.04") to Cutoff Point (adjustable between 20-100mm)	4-wire, 2m integral cable	NPN	02H6891	90.64
QS18VN6AF100Q5		4-pin Euro-style QD	NPN	21H5981	104.84
QS18VP6AF100		4-wire, 2m integral cable	PNP	02H6898	90.64
QS18VP6AF100Q5		4-pin Euro-style QD	PNP	21H6040	104.84

QUICK-DISCONNECT CABLES

Mfg. Part No.	Description	Length (m)	Stock No.	Price Each
MQDC-406	4-pin Euro-style Straight, Threaded Connector	2	02H6726	19.03
MQDC-415		5	02H6728	22.20
MQDC-430		9	02H6730	35.94

BRACKETS

Mfg. Part No.	Description	Stock No.	Price Each
SMBQS18AF	Wrap-around protection mounting bracket, 14-gauge 304 stainless steel	02H7577	4.37

(88874)

WORLD-BEAM® Q20 COMPACT
RECTANGULAR SENSORSBANNER
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Just Added

- Compact sealed, over-molded plastic housing
- 4-pin Euro-style 150 mm (6") pigtail QD connection
- Standard 3 mm threaded mounting holes on 25.4 mm (1") spacing
- Advanced ASIC design for excellent noise immunity and cross-talk avoidance
- 10 to 30V dc operation with complementary solid-state outputs (1 normally open, 1 normally closed)

OPPOSED — 624nm VISIBLE RED LED

Mfg. Part No.	Range	Output Type	Stock No.	Price Each
Q20NRLQ5	15m	NPN	11R0618	67.04

POLARIZED RETROREFLECTIVE — 660nm VISIBLE RED LED

Q20NLPQ5	4m	NPN	11R0617	83.00
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LONG-RANGE DIFFUSE-MODE — 850nm INFRARED

Q20NDXLQ5	1500mm	NPN	11R0616	83.00
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WORLD-BEAM® QS30
UNIVERSAL SENSORS

Just Added

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- Advanced one-piece photoelectric sensors with exceptional long-range optical performance
- 10 to 30V dc operation with bipolar discrete outputs, NPN and PNP
- Selectable Light or Dark Operate, depending on hookup
- Tough ABS/polycarbonate blend housing is rated to IEC IP67; NEMA 6
- Two sensor status LED indicators visible from 360°
- Output indicator on back of sensor housing (except emitters) visible from long distance
- Polarized retroreflective and diffuse models have potentiometer on back of housing for easy sensor range adjustment

OPPOSED — 875nm INFRARED

Mfg. Part No.	Connection	Range	Stock No.	Price Each
QS30E	5-wire 2 m (6.5') cable	60m	34K9502	53.20
QS30EQ	5-pin integral Euro-style QD	60m	34K9504	53.20
QS30R	5-wire 2 m (6.5') cable	60m	34K9533	73.42
QS30RQ	5-pin integral Euro-style QD	60m	34K9535	73.42

POLARIZED RETROREFLECTIVE — 630nm VISIBLE RED LED

QS30LP	5-wire 2 m (6.5') cable	8m	34K9525	81.93
QS30LPQ	5-pin integral Euro-style QD	8m	34K9527	81.93

DIFFUSE-MODE — 940nm INFRARED

QS30D	5-wire 2 m (6.5') cable	1m	34K9498	81.93
QS30DQ	5-pin integral Euro-style QD	1m	34K9500	81.93

FIXED-FIELD — 680nm VISIBLE RED LED

QS30FF200	5-wire 2 m (6.5') cable	200mm	34K9509	88.32
QS30FF200Q	5-pin integral Euro-style QD	200mm	34K9511	88.32
QS30FF400	5-wire 2 m (6.5') cable	400mm	34K9512	88.32
QS30FF400Q	5-pin integral Euro-style QD	400mm	34K9514	88.32
QS30FF600	5-wire 2 m (6.5') cable	600mm	34K9515	88.32
QS30FF600Q	5-pin integral Euro-style QD	600mm	24K3810	88.32

(148735)

WORLD-BEAM® QS30
EXPERT UNIVERSAL
SENSORSBANNER
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Just Added



- Tough ABS housing is rated IEC IP67; NEMA 6 (non-polarized retroreflective is rated for 1200 psi washdown per NEMA PW12)
- Easy-to-read operating status indicators
- Bipolar discrete outputs, PNP and NPN
- Selectable 30 millisecond OFF-delay

QS30LL models offer push-button SET options: Maximum Excess Gain plus Manual Adjust. QS30ELV models provide reliable detection of clear, translucent, or opaque targets (including mirror-like surfaces), as well as automatic compensation algorithm for dust or contamination on the sensor or reflector and for ambient temperature changes. QS30EDV models have automatic Expert-style Static and Dynamic TEACH options, multiple Single-Point SET options, plus manual adjustment for fine tuning. Smart power-control algorithm maximizes performance in low-contrast applications. Selectable normal mode (1.8 ms sensing response) and high-speed mode (300-microsecond response). Easy push-button Dark Operate/Light Operate select, output OFF-delay, and operating speed setup. QS30LD models include Expert-style TEACH options including Static, Dynamic, and Single-Point programming plus manual adjustment for fine-tuning. QS30AF models contain cutoff point push-button SET options: Background Suppression SET, Object Detection SET and Dynamic SET, plus manual adjustments, push-button N.O./N.C. and output OFF-delay setup.

POLARIZED REFLECTIVE — 650nm VISIBLE RED CLASS 1 LASER

Mfg. Part No.	Connection	Range Max.	Stock No.	Price Each
QS30LLP	2 m (6.5') 5-wire Cable	18m	99H1136	174.50
QS30LLPQ	Integral 5-pin Euro-style QD	18m	97H7676	174.50

NON-POLARIZED RETROREFLECTIVE — 660nm VISIBLE RED LED

QS30ELVC	2 m (6.5') 5-wire Cable	2m	11R0614	190.46
QS30ELVCQ	Integral 5-pin Euro-style QD	2m	11R0615	190.46

DIFFUSE-MODE — 660nm VISIBLE RED LED

QS30EDV	2 m (6.5') 5-wire Cable	1400mm	51M6178	145.77
QS30EDVQ	Integral 5-pin Euro-style QD	1400mm	51M6180	145.77

DIFFUSE-MODE — VISIBLE RED CLASS 2 LASER

QS30LDL	2 m (6.5') 5-wire Cable	800mm	21H6122	202.16
QS30LDLQ	Integral 5-pin Euro-style QD	800mm	21H6124	202.16

» CONTINUED »



(148881)

Current Order Status & History

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SENSORS – PHOTOELECTRIC

WORLD-BEAM® QS30 EXPERT UNIVERSAL SENSORS (CONT.)

ADJUSTABLE-FIELD — 660nm VISIBLE RED LED

Mfg. Part No.	Connection	Range Max.	Stock No.	Price Each
QS30AF	2 m (6.5') 5-wire Cable	300mm	99H1130	145.77
QS30AFQ	Integral 5-pin Euro-style QD	300mm	99H1132	145.77

(148737)

WORLD-BEAM® Q12 SERIES MINIATURE PHOTOELECTRIC SENSORS

- Bright, visible red (640nm) light source
- 10 to 30VDC operation
- Solid-state, bipolar outputs: One current sourcing (PNP) and one current sinking (NPN)
- Light operate (LO) or dark operate (DO) depending on model
- Compact 8mm (0.31") housing mounts almost anywhere; ideal for extremely confined areas
- Crosstalk-avoidance circuitry for multiple-sensor applications
- LED status indicator for power ON, output overload, signal received and marginal signal
- Rated IP67



Q12

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Mfg. Part No.	Sensing Mode	Range	Output	Stock No.	Price Each
Q12AB6FF15	Fixed-Field 640nm Visible Red	15mm	Bipolar LO	30K6998	80.81
Q12RB6FF15			Bipolar DO	30K7003	80.81
Q12AB6FF30		30mm	Bipolar LO	30K6999	80.81
Q12RB6FF30			Bipolar DO	30K7004	80.81
Q12AB6FF50		50mm	Bipolar LO	30K6394	80.81
Q12RB6FF50			Bipolar DO	30K7005	80.81
Q12AB6LP	Polarized Retro 640nm Visible Red	1m	Bipolar LO	30K7000	99.38
Q12RB6LP			Bipolar DO	30K7006	99.38
Q12AB6LV	Retro 640nm Visible Red	1.5m	Bipolar LO	30K7001	91.73
Q12RB6LV			Bipolar DO	30K7007	91.73
Q12AB6R	Opposed 640nm Visible Red	2m	Bipolar LO	30K7002	58.97
Q12RB6R			Bipolar DO	30K7008	58.97
Q126E			None	30K7009	45.87

(84778)

MINI-BEAM® DC PHOTOELECTRIC SENSORS

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- Rear-Panel Light/Dark Operate Switch
- DC Models Include Patented Alignment Indicating Device Signal Strength Monitoring Indicator
- Integral Quick-Disconnect (QD) Fitting or attached cable
- Sensing Mode Options: Opposed, Diffuse, Retroreflective, Convergent, and Glass and Fiber Optic
- Temperature Rating: -20°C to +70°C (-4°F to +158°F)
- Bipolar NPN/PNP Output
- Supply Voltage: 10-30VDC
- UL Listed, CSA Certified, CE Compliant

Mfg. Part No.	Mode	Sensing Range	Termination	Stock No.	Price Each
SM312CV2	Convergent	43mm	2m Cable	02H7606	107.10
SM312CV2QD	Convergent	43mm	4-Pin Euro QD	02H7607	107.10
SM312D	Diffuse	380mm	2m Cable	02H7608	91.04
SM312DQD	Diffuse	380mm	4-Pin Euro QD	02H7609	91.04
SM312F	Glass Fiber	Varies	2m Cable	02H7610	91.04
SM312FQD	Glass Fiber	Varies	4-Pin Euro QD	02H7613	91.04
SM31E	Opposed Emitter	3m	2m Cable	02H7602	53.55
SM31EQD	Opposed Emitter	3m	4-Pin Euro QD	02H7603	53.55
SM31R	Opposed Receiver	3m	2m Cable	02H7604	80.33
SM31RQD	Opposed Receiver	3m	4-Pin Euro QD	02H7605	80.33
SM31EL	Opposed Emitter	30m	2m Cable	21H9680	72.80
SM31ELQD	Opposed Emitter	30m	4-Pin Euro QD	21H9686	72.80
SM31RL	Opposed Receiver	30m	2m Cable	21H9721	109.20
SM31RLQD	Opposed Receiver	30m	4-Pin Euro QD	21H9731	109.20
SM312FP	Plastic Fiber	Varies	2m Cable	02H7611	99.61
SM312FPQD	Plastic Fiber	Varies	4-Pin Euro QD	02H7612	99.61
SM312LP	Polarized Retroreflective	3m	2m Cable	02H7614	99.61
SM312LPQD	Polarized Retroreflective	3m	4-Pin Euro QD	02H7615	99.61
SM312LV	Retroreflective	5m	2m Cable	02H7616	91.04
SM312LVQD	Retroreflective	5m	4-Pin Euro QD	02H7617	91.04

➤ CONTINUED ➤

MINI-BEAM® DC PHOTOELECTRIC SENSORS (CONT.)

MOUNTING BRACKETS

Mfg. Part No.	Description	Stock No.	Price Each
SMB18A	90°, Stainless Steel 2-Axis, 18mm	02H7579	3.18
SMB18SF	18mm Plastic, Swivel Mount Bracket	02H7580	7.40
SMB312S	90°, Stainless Steel Bracket, Side Mount	02H7583	4.23

(73567)

MINI-BEAM® AC PHOTOELECTRIC SENSORS

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more sensors, more solutions

Features:

- Signal strength or output indicator
- Solid state outputs
- 2m integral cable or 3-pin Micro-style QD
- Mfg. part nos. with suffix "QD" requires a mating cable; order separately on page 1845
- For 9m cable add suffix "W/30" to the mfg. part no.

Specifications:

- Supply voltage: 24-240VAC
- Output configuration: SPST solid-state, 2-wire (light operate, dark operate selectable)
- Operating temperature: -20°C to +70°C



INTEGRAL CABLE

Mfg. Part No.	Mode	Range	LED	Stock No.	Price Each
SM2A312CV	Convergent	16 mm	Visible Red LED	21H9516	117.81
SM2A312D	Diffuse	380 mm	Infrared LED	21H9532	112.46
SM2A312F	Glass Fiber	Variable	Infrared LED	21H9540	112.46
SM2A312FP	Plastic Fiber	Variable	Visible Red LED	21H9542	117.81
SM2A312LV	Retro	5 m	Visible Red LED	21H9564	112.46

3-PIN MICRO-STYLE QUICK DISCONNECT CABLE

SM2A312CVQD	Convergent	16 mm	Visible Red LED	21H9522	117.81
SM2A312DQD	Diffuse	380 mm	Infrared LED	21H9538	112.46
SM2A312FQD	Glass Fiber	Variable	Infrared LED	21H9550	112.46
SM2A312FPQD	Plastic Fiber	Variable	Visible Red LED	21H9546	117.81
SM2A312LVQD	Retro	5 m	Visible Red LED	21H9570	112.46

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MINI-BEAM® EXPERT™ SENSORS

Just Added

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- TEACH-Mode Sensors in the Popular MINI-BEAM Package
- Easy Pushbutton Programming Automatically Adjusts Sensitivity to Optimal Setting
- 500 Microsecond Output Response
- Bipolar NPN (Sinking)/PNP (Sourcing) Outputs
- Supply Voltage: 10 - 30VDC
- Easy Output Programming Eliminates the Need for Light or Dark Operate Selection
- Separate TEACH Input Allows Remote Programming by an External Device Such as a Switch or a Process Controller
- Temperature: -20°C to +70°C (-4°F to +158°F)
- CE Compliant, Canadian/US Recognized

POLARIZED RETROREFLECTIVE MODE - VISIBLE RED LED

Mfg. Part No.	Range	Cable	Stock No.	Price Each
SME312LP	10mm - 3m	2m (6.5') 5-Wire	02H7592	101.56
SME312LPQD	10mm - 3m	5-Pin Euro-Style QD	02H7593	101.56

DIFFUSE MODE - INFRARED LED

SME312D	380mm (15")	2m (6.5') 5-Wire	02H7586	92.82
SME312DQD	380mm (15")	5-Pin Euro-Style QD	02H7587	92.82

DIFFUSE MODE - VISIBLE RED LED

SME312DV	110mm (43")	2m (6.5') 5-Wire	21H8936	101.56
SME312DVQD	110mm (43")	5-pin Euro-style QD	21H8939	101.56

CONVERGENT MODE - VISIBLE RED LED

SME312CV2	43mm (1.7")	2m (6.5') 5-Wire	02H7584	109.20
SME312CV2QD	43mm (1.7")	5-Pin Euro-Style QD	02H7585	109.20

GLASS FIBER-OPTIC - VISIBLE RED LED

SME312FV	Varies	2m (6.5') 5-Wire	02H7590	92.82
SME312FVQD	Varies	5-Pin Euro-Style QD	02H7591	92.82

PLASTIC FIBER-OPTIC - VISIBLE RED LED

SME312FP	Varies	2m (6.5') 5-Wire	02H7588	101.56
SME312FPQD	Varies	5-Pin Euro-Style QD	02H7589	101.56

(73568)

SENSORS – PHOTOELECTRIC

MINI-BEAM®
UNIVERSAL
VOLTAGE SENSORS

- Universal Supply Voltage: 24 to 240VAC or 24 to 240VDC
- Easy-to-Install with Few Necessary Adjustments
- 3A SPDT Electromechanical Relay
- Temperature: -20°C to +55°C (-4°F to +131°F)

Exclusive (U.S. Patent No. 4356393) alignment indicating device system (AID™) lights a rear panel LED whenever sensing light is detected. Superimposed pulse rate indicates received light signal strength.

Mfg. Part No.	Description	Range	Cable	Stock No.	Price Each
SMU31E	Opposed Mode Emitter	3m (10')	2m (6.5') 2-Wire	02H7594	67.71
SMU31R	Opposed Mode Receiver	3m (10')	2m (6.5') 5-Wire	02H7595	98.28
SMU315D	Diffuse Mode	380 mm (15')	2m (6.5') 5-Wire	02H7597	114.66
SMU315LV	Non-Polarized Retroreflective Mode	5m (15')	2m (6.5') 5-Wire	02H7601	114.66
SMU315LP	Polarized Extended Range Retroreflective Mode	10mm - 3m (0.4" - 10')	2m (6.5') 5-Wire	02H7600	120.12
SMU315CV2	Convergent Mode	43mm (1.7")	2m (6.5') 5-Wire	02H7596	125.58
SMU315F*	Glass Fiber-Optic	Varies	2m (6.5') 5-Wire	02H7598	114.66
SMU315FP*	Plastic Fiber-Optic	Varies	2m (6.5') 5-Wire	02H7599	120.12

(73569)

M12 — 12mm BARREL SENSORS

- Sensors housed in a compact 12 mm threaded metal barrel
- 4-pin integral Euro-style M12 connector
- Background suppression on fixed-field models; an excellent alternative to proximity sensors
- Two signal indicator LEDs for easy operating status monitoring from any direction
- 10 to 30V dc operation
- Complementary solid-state outputs (1 normally open, 1 normally closed)



Just Added



OPPOSED - 660nm VISIBLE RED LED

Mfg. Part No.	Range	Output Type	Stock No.	Price Each
M12EQ8	5m	...	51M5718	48.95
M12NRQ8	5m	NPN	51M5753	71.29
M12PRQ8	5m	PNP	51M5788	71.29

POLARIZED RETROREFLECTIVE — 660nm VISIBLE RED LED

M12NLPQ8	1.5m	NPN	51M5743	75.55
M12PLPQ8	1.5m	PNP	51M5778	75.55

DIFFUSE-MODE — 660nm VISIBLE RED LED

M12NDQ8	400mm	NPN	51M5723	75.55
M12PDQ8	400mm	PNP	51M5758	75.55

FIXED-FIELD — 680nm VISIBLE RED LED

M12NFF25Q8	25mm	NPN	51M5728	97.89
M12PFF25Q8	25mm	PNP	51M5763	97.89
M12NFF50Q8	50mm	NPN	51M5733	97.89
M12PFF50Q8	50mm	PNP	51M5768	97.89
M12NFF75Q8	75mm	NPN	51M5738	97.89
M12PFF75Q8	75mm	PNP	51M5773	97.89

(148728)

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(148857)

S18 SERIES
EZ-BEAM®
SENSORS

- 18mm Thermoplastic Polyester-Threaded Barrel Sensor
- Advanced Self-Diagnostics with Separate Alarm Output
- Dual LED System Indicates Sensor Performance
- Solid-State Switch Output, Maximum Load 300mA
- -10°C to +50°C (+14°F to +122°F)
- CE Compliant, CSA certified, UL listed



OPPOSED MODE EMITTER (E) AND RECEIVER (R) - INFRARED LED

Mfg. Part No.	Range	Cable	Supply Voltage	Output Type	Stock No.	Price Each
S186E	20m (66')	2m (6.5')	10-30VDC	NPN	02H7663	30.24
S186EQ		4-Pin Euro QD			02H7664	30.24
S18SN6R		2m (6.5')			02H7652	41.44
S18SN6RQ		4-Pin Euro QD			02H7653	41.44
S18SP6R		2m (6.5')	20-250VAC	PNP	02H7660	41.44
S18SP6RQ		4-Pin Euro QD			02H7661	41.44
S183E		2m (6.5')			02H7662	38.08
S18RW3R		2m (6.5')			02H7645	53.76

RETROREFLECTIVE MODE - POLARIZED - VISIBLE RED LED

S18SN6LP	2m (79")	2m (6.5')	10-30VDC	NPN	02H7650	84.00
S18SN6LPQ		4-Pin Euro QD			02H7651	84.00
S18SP6LP		2m (6.5')		PNP	02H7658	84.00
S18SP6LPQ		4-Pin Euro QD			02H7659	84.00
S18RW3LP		2m (6.5')	20-250VAC	DO	02H7644	104.16

S18 DIFFUSE MODE - INFRARED LED

S18SN6D	100mm (4")	2m (6.5')	10-30VDC	NPN	02H7646	45.92
S18SN6DQ		4-Pin Euro QD			02H7647	50.40
S18SP6D		2m (6.5')		PNP	02H7654	45.92
S18SP6DQ		4-Pin Euro QD			02H7655	50.40
S18AW3D		2m (6.5')	20-250VAC	LO	02H7642	62.72

S18 FIXED-FIELD MODE - INFRARED LED

Mfg. Part No.	Cutoff Point	Cable	Supply Voltage	Output Type	Stock No.	Price Each
S18SN6FF100	100mm (4")	2m (6.5')	10-30VDC	NPN	02H7648	95.20
S18SN6FF100Q		4-Pin Euro QD			02H7649	95.20
S18SP6FF100		2m (6.5')		PNP	02H7656	95.20
S18SP6FF100Q		4-Pin Euro QD			02H7657	95.20
S18AW3FF100		2m (6.5')	20-250VAC	LO	02H7643	117.60

MOUNTING BRACKETS

Mfg. Part No.	Description	Stock No.	Price Each
SMB18A	90° Stainless Steel 2-Axis, 18mm	02H7579	3.18
SMB18SF	18mm Plastic, Swivel Mount Bracket	02H7580	7.40

(73571)

T18 SERIES EZ-BEAM® SENSORS

- Patented Right-Angle Thermoplastic Polyester Housing with 18mm Threaded Lens
- Advanced Self-Diagnostics with Separate Alarm Output
- Dual LED System Indicates Sensor Performance
- Choose (Complementary) NPN or PNP Outputs (150mA Max. Each)
- Solid-State Switch Output, Maximum Load 300mA
- -40°C to +70°C (-40°F to +158°F)
- UL listed, CSA certified, CE compliant.



OPPOSED MODE EMITTER (E) AND RECEIVER (R) - INFRARED LED

Mfg. Part No.	Range	Cable	Supply Voltage	Output Type	Stock No.	Price Each
T186E	20m (66')	2m (6.5')	10-30VDC	NPN	02H7704	38.22
T186EQ		4-Pin Euro QD			02H7705	38.22
T18SN6R		2m (6.5')			02H7693	54.60
T18SN6RQ		4-Pin Euro QD			02H7694	54.60
T18SP6R		2m (6.5')	20-250VAC	PNP	02H7701	54.60
T18SP6RQ		4-Pin Euro QD			02H7702	54.60
T183E		2m (6.5')			02H7703	44.78
T18RW3R		2m (6.5')			02H7686	69.89

» CONTINUED »

SENSORS – PHOTOELECTRIC

T18 SERIES EZ-BEAM® SENSORS (CONT.)

RETROREFLECTIVE MODE, POLARIZED - VISIBLE RED LED*

Mfg. Part No.	Range	Cable	Supply Voltage	Output Type	Stock No.	Price Each 1-9
T18SN6LP	2m (79")	2m (6.5')	10-30VDC	NPN	02H7691	81.90
T18SN6LPQ		4-Pin Euro QD			02H7692	81.90
T18SP6LP		2m (6.5')			02H7699	81.90
T18SP6LPQ		4-Pin Euro QD	20-250VAC	DO	02H7700	81.90
T18RW3LP		2m (6.5')			02H7685	101.56

Use polarized models when shiny objects will be sensed

DIFFUSE MODE WITH GAIN CONTROL (DC) - INFRARED LED

T18SN6D	500mm (20")	2m (6.5')	10-30VDC	NPN	02H7687	64.43
T18SN6DQ		4-Pin Euro QD			02H7688	64.43
T18SP6D		2m (6.5')		PNP	02H7695	64.43
T18SP6DQ		4-Pin Euro QD			02H7696	64.43
T18AW3D	300mm (12")	2m (6.5')	20-250VAC	LO	02H7683	77.54

FIXED-FIELD MODE - INFRARED LED

T18SN6FF100	100mm (4")	2m (6.5')	10-30VDC	NPN	02H7689	92.82
T18SN6FF100Q		4-Pin Euro QD			02H7690	92.82
T18SP6FF100		2m (6.5')		PNP	02H7697	92.82
T18SP6FF100Q		4-Pin Euro QD			02H7698	92.82
T18AW3FF100		2m (6.5')			02H7684	114.66
		2m (6.5')	20-250VAC	LO		

MOUNTING BRACKETS

Mfg. Part No.	Description	Stock No.	Price Each 1-9
SMB18A	90°, Stainless Steel 2-Axis, 18mm	02H7579	3.18
SMB18SF	18mm Plastic, Swivel Mount Bracket	02H7580	7.40

(73572)

Q45 SERIES SENSORS

- Retroreflective Models Include Laser Versions for Very Long Range or Precise Sensing
- -40°C to +70°C (except universal voltage: -25°C to +55°C)



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Internal light/dark operate switch and multi-turn sensitivity (gain) control accessible beneath hinged, o-ring sealed top cover. UL listed, CSA certified, CE compliant.

OPPOSED MODE EMITTER (E) AND RECEIVER (R)

Mfg. Part No.	Range	Cable	Supply Voltage	Output Type	Stock No.	Price Each 1-9
Q456E	60m (200')	2-Wire 2m (6.5')	10-30VDC	None	02H6934	65.52
Q456EQ5		4-Pin Euro QD			02H6935	65.52
Q45BB6R		4-Wire 2m (6.5')		Bipolar NPN/PNP	02H6925	85.18
Q45BB6RQ5		4-Pin Euro QD			02H6926	85.18
Q453E		2-Wire 2m (6.5')	Universal 12-250VDC or 24-250VAC	None	02H6933	69.89
Q45VR3R		5-Wire 2m (6.5')		SPDT e/m Relay	02H6932	99.38

RETROREFLECTIVE MODE (POLARIZED)

Q45BB6LP	0.15-6m (6"-20')	4-Wire 2m (6.5')	10-30VDC	Bipolar NPN/PNP	02H6923	99.38
Q45BB6LPQ5		4-Wire Euro QD			02H6924	99.38
Q45VR3LP		5-Wire 2m (6.5')	Universal 12-250VDC or 24-250VAC	SPDT e/m Relay	02H6931	112.48

➤ CONTINUED ➤

Q45 SERIES SENSORS (CONT.)

DIFFUSE MODE, LONG RANGE

Mfg. Part No.	Range	Cable	Supply Voltage	Output Type	Stock No.	Price Each 1-9
Q45BB6DL	1.8m (6')	4-Wire 2m (6.5')	10-30VDC	Bipolar NPN/PNP	02H6917	91.73
Q45BB6DLQ5		4-Pin Euro QD			02H6918	91.73
Q45VR3DL		5-Wire 2m (6.5')	Universal 12-250VDC or 24-250VAC	SPDT e/m Relay	02H6928	105.93
Q45VR3DLQ	1.8m (6')	5-Pin Mini-Style QD	Universal 12-250VDC or 24-250VAC	SPDT e/m Relay	21H6802	105.93

GLASS FIBER OPTIC (VISIBLE RED, 650 NM)

Q45BB6FV	Varies*	4-Wire 2m (6.5')	10-30VDC	Bipolar NPN/PNP	02H6921	91.73
Q45BB6FVQ5		4-Pin Euro QD			02H6922	91.73
Q45VR3FV		5-Wire 2m (6.5')	Universal 12-250VDC or 24-250VAC	SPDT e/m Relay	02H6930	112.48

PLASTIC FIBER OPTIC

Q45BB6FP	Varies*	4-Wire 2m (6.5')	10-30VDC	Bipolar NPN/PNP	02H6919	100.47
Q45BB6FPQ5		4-Pin Euro QD			02H6920	100.47
Q45VR3FP		5-Wire 2m (6.5')	Universal 12-250VDC or 24-250VAC	SPDT e/m Relay	02H6929	112.48

CONVERGENT MODE

Q45BB6CV4	100mm (4")**	4-Wire 2m (6.5')	10-30VDC	Bipolar NPN/PNP	02H6915	104.84
Q45BB6CV4Q5		4-Pin Euro QD			02H6916	104.84
Q45VR3CV4		5-Wire 2m (6.5')	Universal 12-250VDC or 24-250VAC	SPDT e/m Relay	02H6927	116.85

*Range varies by sensing mode and fiber optics used.

** Spot Size at Focus: 1.5mm (0.06")

MOUNTING BRACKETS

Mfg. Part No.	Description	Stock No.	Price Each 1-9
SMB30MM	90° Stainless Steel, 30mm	02H7581	5.29
SMB30SC	30mm Plastic, Swivel Mount	02H7582	7.40

QUICK-DISCONNECT CABLES

Mfg. Part No.	Description	Length (m)	Stock No.	Price Each 1-9	10-24
MQDC-406	4-pin Straight Euro-style	2	02H6726	19.03	18.02
MQDC-415	4-pin Straight Euro-style	5	02H6728	22.20	21.03
MQDC-430	4-pin Straight Euro-style	9	02H6730	35.94	34.04
MBCC-506	5-pin Straight Mini-style	2	21H1183	36.18	...

(73573)

Q60 ADJUSTABLE-FIELD SENSORS

Just Added



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- Detects objects within a defined sensing field, while ignoring objects located beyond the sensing field cutoff
- Two-turn, logarithmic cutoff point adjustment for easy setting of cutoff point at long range
- Rotating pointer indicates relative cutoff point setting
- Easy push-button or remote setting of light/dark operate and output timing; continuous status indicators verify all settings at a glance
- Output ON and/or OFF delays adjustable from 8 milliseconds to 16 seconds
- ABS/polycarbonate blend housing is rated IEC IP67; NEMA 6

Q60BB6 models powered by 10 to 30V dc. Q60VR3 models powered by 12-250V dc or 24-250V ac, 50/60 Hz.

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SENSORS – PHOTOELECTRIC

Q60 ADJUSTABLE-FIELD SENSORS (CONT.)

665nm VISIBLE RED LED

Mfg. Part No.	Range	Connection	Output Type	Stock No.	Price Each
Q60B86AFV1000Q	1000mm	5-pin Euro-style QD	NPN/PNP	21H6946	168.12
Q60VR3AFV1000Q1	1000mm	4-pin Micro-style QD	SPST-NO	21H6951	185.14

650nm VISIBLE RED CLASS 1 LASER

Q60B86LAF2000Q	2000mm	5-pin Euro-style QD	NPN/PNP	97H8688	331.97
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650nm VISIBLE RED CLASS 2 LASER

Q60VR3LAF2000Q1	2000mm	4-pin Micro-style QD	SPST-NO	99H1180	350.06
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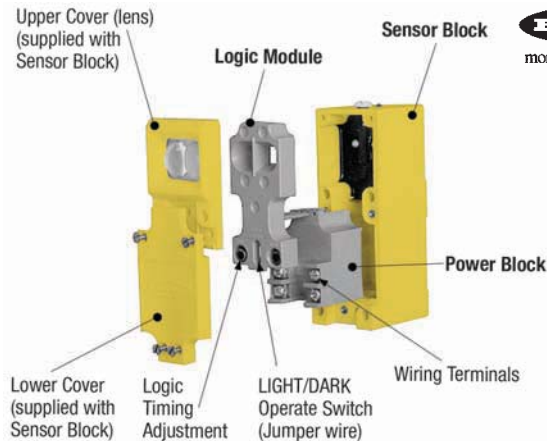
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MULTI-BEAM® SENSORS

Selection of Components For MULTI-BEAM® Sensors

- 1. Choose a sensor block for the required sensing mode
- 2. Choose a power block for the required sensor power (AC or DC) and interface
- 3. Choose a logic module (not required for opposed emitters)
- 4. Simply plug components together without intervening to create a complete self-contained photoelectric sensor that is tailored to your exact needs

MULTI-BEAM® sensors are compact modular self-contained photoelectric switches. The scanner block contains the complete modulated photoelectric amplifier as well as the emitter and receiver optoelements. It also contains the sensing optics and the housing for the other two modules. The power block provides the interface between the scanner block and external circuit. It contains a power supply for the MULTI-BEAM® plus a switching device to interface with the circuit to be controlled. The logic module interconnects the power block and scanner block both electrically and mechanically. It provides the ability to program the output for either light- or dark-operate. The emitters of MULTIBEAM® emitter-receiver pairs do not require a logic module. Emitter scanner blocks are supplied with a blade-pin to interconnect the scanner block and power block. This modular design, with field power block and logic module, permits over 5,000 sensor configurations, resulting in exactly the right sensor for any photo-electric application. Three- and four-wire sensors permit either AC or DC operation and offer the fastest response times and the greatest ranges. The circuitry of all MULTI-BEAM® components is encapsulated within rugged, corrosion VALOX® housings, which meet or exceed NEMA 1, 2, 12, and 13 ratings. Scanner blocks include an Alignment Indicating Device (AID™) which lights a top-mounted LED when the sensor sees its own modulated light source and pulses the LED at a rate proportional to the received light signal.



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MULTI-BEAM® 3- AND 4-WIRE SCANNER BLOCKS

Mfg. Part No.	Description	Range	Response (ms)	Stock No.	Price Each	
					1-9	10-24
SBE	Opposed Mode Emitter, high speed infrared 940 nm	150-ft with SBR1 Receiver	1 on/off	21H7420	89.10	83.43
SBR1	Opposed Mode Receiver for use with SBE Emitter	150-ft with SBE Emitter	1 on/off	21H7448	121.00	113.30
SBEX	Opposed Mode Emitter, high power, long range infrared 940 nm	700-ft with SBRX1 Receiver	10 on/off	21H7424	101.20	94.76
SBRX1	Opposed Mode Receiver for use with SBEX Emitter	700-ft with SBEX Emitter	10 on/off	21H7447	121.00	113.30
SBL1	Retroreflective Mode Scanner Block, high speed infrared 940 nm	1" to 30-ft with BRT-3 reflector	1 on/off	21H7440	122.10	114.33
SBLV1	Retroreflective Mode Scanner Block, high speed visible red 650 nm	6" to 30-ft with BRT-3 reflector	1 on/off	21H7438	122.10	114.33
SBD1	Diffused Mode Scanner Block, high speed infrared 940 nm	12" using 90% reflectance white card	1 on/off	21H7418	122.10	114.33
SBDL1	Diffuse Mode Scanner Block, medium speed infrared 940 nm	24" using 90% reflectance white card	1 on/off	21H7414	122.10	114.33
SBDX1	Diffused Mode Scanner Block, high power, long range infrared 880 nm	6-ft using 90% reflectance white card	10 on/off	21H7416	133.10	124.63
SBC1	Convergent Mode Scanner Block, infrared 940 nm	1.5" focal point	1 on/off	21H7408	159.50	149.35
SBF1	Glass Fiber Optic Scanner Block, high speed infrared 940 nm	varies by type of fiber optic cables used	1 on/off	21H7433	155.10	145.23
SBFX1	Glass Fiber Optic Scanner Block, high power infrared 880 nm	varies by type of fiber optic cables used	10 on/off	21H7431	160.60	150.38

MULTI-BEAM® 3- AND 4-WIRE POWER BLOCKS

Mfg. Part No.	Output Type	Output Capacity	Supply Voltage	On-State V Saturation	Stock No.	Price Each	
						1-9	10-24
PBA	Relay	250, 750ma Max.	105 to 130VAC	2.5VAC	21H4237	46.20	43.26
PBAT	Relay	222, 100ma Max.	105 to 130VAC	<3VAC	21H4242	46.20	43.26
PBA-1	...	...	105 to 130VAC	<3VAC	21H4238	38.50	36.05
PBP	SPST, PNP (Sourcing)	30, 250ma Max.	10 to 30VDC	1VDC	21H4425	39.60	37.08
PBT	SPST, NPN (Sinking)	30, 250ma Max.	10 to 30VDC	1VDC	21H4515	39.60	37.08
PBT-1	...	...	10 to 30VDC	<1VAC/DC	21H4516	34.10	31.93

MULTI-BEAM® 3-AND 4-WIRE LOGIC MODULES

Mfg. Part No.	Timing Function	Timing Range	Stock No.	Price Each	
				1-9	10-24
LM1	On-Delay and Off-Delay	None to light operate only	21H0811	17.60	16.48
LM3	On-Delay and Off-Delay	None to output follows input	21H0817	29.70	27.81
LM5	On-Delay	1.5 sec. to 15 sec.	21H0832	69.30	64.89
LM5-14	On-Delay and Off-Delay	1.5 sec. to 15 sec.	21H0833	82.50	77.25
LM4-2	Retriggerable One Shot	0.01 sec. to 1 sec.	21H0827	69.30	64.89

(78055)

SENSORS – PHOTOELECTRIC

D10 EXPERT™ SERIES
FIBER-OPTIC SENSORS

- 4-Mode Power and Speed Selection with Automatic Crosstalk Avoidance Circuitry
- Gate Input Wire Can Be Used to Selectively Inhibit Sensor Outputs from Switching
- Sleek, Ultra-Slim 10mm Housing Mounts to a Standard 35mm DIN Rail, or Use Mounting Bracket Included

Easy-to-set automatic Expert-style TEACH options including static, dynamic and single-point programming plus a manual adjustment for fine-tuning. 16-bit microcontroller and 12-bit analog-to-digital converter for high-performance, low-contrast sensing. Easy-to-read 4-digit display TEACH and signal strength readout, plus indicators for a continuous readout or operating status (user configurable).

DUAL DISCRETE OUTPUTS (VISIBLE RED 680 NM)

Mfg. Part No.	Cable	Supply Voltage	Output Type	Stock No.	Price Each
D10DNFP	2m (6.5') Cable	12-24VDC	NPN	02H6487	178.64
D10DNFPQ	6-Pin Pico-Style QD	12-24VDC	(Sinking)	02H6488	178.64
D10DPFP	2m (6.5') Cable	12-24VDC	PNP	02H6489	178.64
D10DPFPQ	6-Pin Pico-Style QD	12-24VDC	(Sourcing)	02H6490	178.64

ANALOG AND DISCRETE OUTPUTS (VISIBLE RED 680 NM)

Mfg. Part No.	Cable	Supply Voltage	Discrete Output	Analog Output	Stock No.	Price Each
D10IPFP	2m (6.5') Cable	12-24VDC	PNP	4-20mA	02H6493	223.03
D10IPFPQ	6-Pin Pico-Style QD	12-24VDC	(Sourcing)	4-20mA	02H6494	223.03
D10UNFP	2m (6.5') Cable	15-24VDC	NPN	0-10V	02H6495	223.03
D10UNFPQ	6-Pin Pico-Style QD	15-24VDC	(Sinking)	0-10V	02H6496	223.03

(73579)

PLASTIC AND GLASS
FIBER-OPTIC ASSEMBLIES

PLASTIC FIBER-OPTIC ASSEMBLIES

- PBT Versions Are Diffused Mode; PIT and PIL Are Opposed Mode
- Unterminated Control Ends Which Allow the User to Cut to the Required Length
- Available in Individual or Bifurcated Styles
- Limited to a Minimum Bend Radius of 1mm
- Fiber Core Size: 1mm
- For Use with the Following Series: D10, SM, SME, SMU, Q45 and QS18



Mfg. Part No.	Style	Construction	Stock No.	Price Each
PBT46U	Bifurcated Threaded	Cut to Length Cable, M6 Threaded End Tip	02H6806	38.22
PBT46UC	Bifurcated High-Flex Threaded	Coiled Cable, Cut to Length Cable, M6 Threaded End Tip	02H6807	49.14
PBT46UHF	High-Flex Bifurcated Threaded	Cut to Length Cable, M6 Threaded End Tip	02H6808	54.60
PIT46U	Individual Threaded	M4 and M2.5 Threaded End Tip	02H6810	42.59
PIT66U	Individual Threaded	M4 and M2.5 Threaded End Tip	21H5057	56.79
PIAT26U	Individual Threaded	M3 x 0.5 90° Angle Threaded Brass Tip	21H4821	66.62
PIT46UHF	High-Flex Individual Threaded	M4 and M2.5 Threaded End Tip	02H6811	61.16
PIL46U	Individual Lensed	Cut to Length Cable, 8mm Lens	02H6809	42.59
PIRS1X166UMPMAL	Individual Fiber Array	2 m, Untermated Straight Cable	21H4985	114.66

GLASS FIBER OPTIC ASSEMBLIES

- Final Assembly Length: 36"
- Stainless Steel Sheathing Material
- Bundle Size: 0.125"
- Sheath Diameter: 0.25"

DIFFUSED SENSING MODE ASSEMBLIES

Mfg. Part No.	Style	Sensing End Tip Style	Stock No.	Price Each
BAT23S	Bifurcated	Angled 90° and Threaded Brass Tip	02H6393	116.85
BT23S	Bifurcated	Threaded 5/16x24x1.5", Brass End Tip	02H6400	86.27
BT13S	Bifurcated	Threaded, .062"	20H3288	86.27

OPPOSED SENSING MODE ASSEMBLIES

Mfg. Part No.	Style	Sensing End Tip Style	Stock No.	Price Each
IA23S	Individual	Angled Tip (90°)	02H6626	77.54
IAT23S	Individual	Angled 90° and Threaded Brass Tip	02H6625	89.55
IT23S	Individual	Threaded 5/16-24 x 1.5", Brass End Tip	02H6658	63.34
ITA23S	Individual	Threaded 5/16-24 x 1.5", Angled 90° End Tip	02H6657	114.66
IT26S	Individual	Threaded 72, 0.125"	20H9957	89.55

(73585)

R58 SERIES EXPERT
REGISTRATION
MARK SENSORS

Flat mount bracket



Right-angle bracket

Features:

- Ultra-fast 10kHz switching frequency
- Sensor automatically selects red, green or blue LED during TEACH to optimize application contrast
- Outstanding color contrast sensitivity, detects contrasts as low as 2% over a wide range of colors
- Rugged zinc alloy die-cast housing with high-quality acrylic lens suitable for food processing applications; rated IP67, NEMA 6

Specifications:

- Focus: 10mm (0.39")
- Supply voltage: 10 to 30VDC
- Output type: Bipolar NPN/PNP

SENSORS

Mfg. Part No.	Sensing Image Orientation	Cable	Stock No.	Price Each
R58ECRQB1	Parallel to sensor length	5-wire, 2m	93K6147	246.00
R58ECRQB1Q	Parallel to sensor length	5-pin Euro-style QD pigtail	93K6148	246.00
R58ECRQB2	Perpendicular to sensor length	5-wire, 2m	93K6149	246.00
R58ECRQB2Q	Perpendicular to sensor length	5-pin Euro-style QD pigtail	93K6150	246.00

QUICK-DISCONNECT CABLES

Mfg. Part No.	Description	Length (m)	Stock No.	Price Each
MQDEC2-515	5-pin Euro-Style Straight, with shield	5	21H2313	33.81

BRACKETS

Mfg. Part No.	Description	Stock No.	Price Each
SMB55RA	Right-angle bracket, 12-gauge stainless steel	21H8851	9.52
SMB55F	Flat mount bracket, 12-gauge stainless steel	21H8850	9.52

(88873)

SLM METAL
SLOT SENSORS

- Self-contained, opposed-mode sensor pair in a U-shaped housing with 2 m (6.5') 4-wire cable
- Sealed, yellow, die-cast metal housing is rated IEC IP67 (NEMA 6)
- Molded-in beam guides simplify beam placement
- Bipolar (one NPN and one PNP) output
- Fast 500-microsecond response time
- Single-turn potentiometer sensitivity adjustment
- Visible red beam
- Selectable Light Operate (L.O.) or Dark Operate (D.O.) with sealed switch
- 10 to 30V dc operation

Just Added



Mfg. Part No.	Slot Width (mm)	Stock No.	Price Each
SLM1086	10	78K9316	130.88
SLM2086	20	11R0620	130.88
SLM3086	30	78K9331	130.88
SLM5086	50	78K9336	130.88
SLM8086	80	78K9341	130.88
SLM12086	120	78K9321	152.16
SLM18086	180	11R0619	152.16
SLM22086	220	78K9326	152.16

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SENSORS – PHOTOELECTRIC

TOUCH-ACTIVATED
OPTOELECTRONIC SENSORS

- Operating Temperature: -20°C to +50°C
- Black Sensor Field Cover is Supplied



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Just Added

Output is a 7A SPDT electromechanical relay. All models are supplied with a black polypropylene field cover designed to prevent inadvertent switch activation.

WARNING: OTB and LTB Series Touch Buttons are not themselves safety devices. For two-hand control safety applications, see safety modules (mfg. part no. ATGMK-VP6 two-hand control kit) on page 1985.

MOMENTARY ACTION OTB'S

Mfg. Part No.	Cable	Upper Housing	Supply Voltage	Output	Stock No.	Price Each
					1-9	
OTBA5	2m (6.5')	Polysulfone	120VAC	SPDT Electromechanical Relay	02H6802	114.16
OTBA5QD	5-Pin Mini QD				21H4119	114.16
OTBB5	2m (6.5')		220/240VAC		02H6803	114.16
OTBB5QD	5-Pin Mini QD				21H4147	114.16
OTBVP6	2m (6.5')		10 - 30VDC	Complementary PNP	02H6805	114.16
OTBVP6QDH	4-Pin Euro QD	Polysulfone			21H4195	114.16
OTBVN6	2m (6.5')		10 - 30VDC	Complementary NPN	02H6804	114.16
OTBVN6QDH	4-Pin Euro QD				21H4172	114.16

ALTERNATE ACTION LTB'S

Mfg. Part No.	Cable	Upper Housing	Supply Voltage	Output	Stock No.	Price Each
					1-9	
LTBA5	2m (6.5')	Polysulfone	120VAC	SPDT Electromechanical Relay	02H6705	114.16
LTBB5	2m (6.5')		220/240VAC		02H6706	114.16

CONTROL RELAYS

Mfg. Part No.	Description	Stock No.	Price Each
		1-9	
AT-AM-2A	115VAC, Redundant Safety Relay (Force-Guided) Contacts, 4A Maximum Each, One N.C. Reed Relay	02H6390	281.17
AT-FM-2A	24VAC/VDC, Redundant Safety Relay (Force-Guided) Contacts, 4A Maximum Each, One N.C. Reed Relay	02H6391	263.20
AT-FM-10K	24VAC/VDC, 6A, 2 dual NO/NC inputs 2 safety outputs	20H0848	285.39

QUICK-DISCONNECT CABLES

Mfg. Part No.	Description	Stock No.	Price Each
		1-9	
MQDC-406	4-Pin Euro Straight QD Cable - 2 Meters	02H6726	19.03
MQDC-415	4-Pin Euro Straight QD Cable - 5 Meters	02H6728	22.20
MQDC-430	4-Pin Euro Straight QD Cable - 9 Meters	02H6730	35.94
MBCC-406	4-Pin Mini-Style Straight QD Cable - 2 Meters	21H1177	40.44
MBCC-412	4-Pin Mini-Style Straight QD Cable - 4 Meters	21H1178	46.96
MBCC-430	4-Pin Mini-Style Straight QD Cable - 9 Meters	21H1180	90.44
MBCC-506	5-Pin Mini-Style Straight QD Cable - 2 Meters	21H1183	36.18

MOUNTING BRACKETS

Mfg. Part No.	Description	Stock No.	Price Each
		1-9	
SMB30MM	90°, Stainless Steel, 30mm	02H7581	5.29
SMB30SC	30mm Plastic, Swivel Mount	02H7582	7.40

(73581)

QUICK-DISCONNECT (QD)
CABLE ASSEMBLIES

Just Added

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PICO-STYLE QUICK-DISCONNECT CABLES

- Cable: PVC Jacket, Polyurethane Connector Body, POM Snap-Lock Coupling
- Conductors: 26AWG High Flex Stranded, Gold-Plated Contacts
- Temperature: -40°C - +90°C (-40°F - +194°F)
- Voltage Rating: 125VAC/VDC



Mfg. Part No.	Length	Style	Used With	Stock No.	Price Each
					1-9
PKG6Z-9	9m (30')	6-Pin Straight	D10 Series	02H6813	34.95
PKW6Z-2	2m (6.5')	6-Pin Straight	D10 Series	02H6814	26.21
PKW6Z-9	9m (30')	6-Pin Right-Angle	D10 Series	02H6815	34.95

EURO-STYLE QUICK-DISCONNECT CABLES

- Cable: PVC Jacket, Polyurethane Connector body, Nickel-Plated Brass Coupling Nut
- Conductors: 22AWG High Flex Stranded, PVC Insulation, Gold-Plated Contacts
- Temperature: -40°C - +90°C (-40°F - +194°F)
- Voltage Rating: 250VAC/300VDC

➤ CONTINUED ➤

QUICK-DISCONNECT (QD) CABLE ASSEMBLIES (CONT.)

Mfg. Part No.	Length	Style	Used With	Stock No.	Price Each	
				1-9		
MQDC1-506	2m (6.5')	5-Pin Straight	QS30 Q60 MINI-BEAM Expert Series EZ-LIGHT Series R58E	21H2288	19.66	
MQDC1-515	5m (15')			21H2290	22.94	
MQDC1-530	9m (30')			21H2292	37.13	
MQDC1-506RA	2m (6.5')	5-Pin Right-Angle		21H2289	19.66	
MQDC1-515RA	5m (15')			21H2291	22.94	
MQDC1-530RA	9m (30')			21H2293	37.13	
MQDC-406	2m (6.5')	4-Pin Straight	Q12 QS18 MINI-BEAM DC SM Series EZ-BEAM DC Series (Q Suffix) EZ-LIGHT Series	02H6726	19.03	
MQDC-415	5m (15')			02H6728	22.20	
MQDC-430	9m (30')			02H6730	35.94	
MQDC-406RA	2m (6.5')	4-Pin Right-Angle		02H6727	19.66	
MQDC-415RA	5m (15')			02H6729	22.94	
MQDC-430RA	9m (30')			02H6731	37.13	

MICRO-STYLE QUICK-DISCONNECT CABLES

- Cable: PVC Jacket, Polyurethane Connector Body, nickel-plated brass coupling nut
- Conductors: 3 x 22AWG Gold-Plated Contacts
- Temperature: -40° C to +90° C
- Voltage/Current rating: 250VAC/DC, 4.0A

Voltage/Current Rating: 250VAC 50/ 40A					
Mfg. Part No.	Length	Style	Used With	Stock No.	Price Each
					1-9
MQDC-306	2m (6.5')	3-Pin Straight	MINI-BEAM AC SM Series	21H2261	19.66
MQDC-315	5m (15')			21H2263	22.94
MQDC-330	2m (6.5')			21H2265	36.04
MQDC-306RA	9m (30')	3-Pin Right-Angle		21H2262	19.66
MQDC-315RA	5m (15')			21H2264	22.94
MQDC-330RA	9m (30')			21H2266	36.04
MQVR3S-506	2m (6.5')	5-Pin Straight	K50L & K80L Series	34K8143	33.83
MQVR3S-515	5m (15')			23K7652	43.34
MQVR3S-530	9m (30')			34K8146	63.42

(73584)

RETROREFLECTIVE TARGETS

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High-quality acrylic targets, high-temperature targets, and adhesive-backed retro tapes.

Mfg. Part No.	Description	Reflectivity Factor	Maximum Temperature	Stock No.	Price Each
				1-9	
BRT-1	1" Round Retroreflective Target	1.0	65°C (150°F)	02H6397	2.19
BRT-3	3" Round Retroreflective Target	1.0	65°C (150°F)	02H6399	4.37
BRT-84	84mm Round Retroreflective Target	1.4	65°C (150°F)	20H2844	4.37
BRT-41AHT	41mm Round Retroreflective Target	1.0	200°C (390°F)	20H2827	222.77
BRT-L	165mm x 19mm Rect. Retroreflective Target	0.8	65°C (150°F)	20H2776	3.28
BRT-32X20AM	20mm x 32mm Rect. Retroreflective Target	1.2	65°C (150°F)	20H2814	3.28
BRT-40X20AM	40mm x 20mm Rect. Retroreflective Target	1.2	50°C (120°F)	20H2822	4.37
BRT-51X51BM	51mm x 51mm Square Retroreflective Target	1.5	50°C (122°F)	98H5288	15.29
BRT-92X92C	92mm x 92mm Square Retroreflective Target	3.0	50°C (120°F)	20H2845	14.20
BRT-2X2	2" x 2" Square Retroreflective Target	1.0	50°C (120°F)	02H6398	4.37
BRT-THG-1-100	Retroreflective Tape, 25mm Wide, 2.5m length	0.7	60°C (140°F)	02H6396	25.12
BRT-THG-2-100	Retroreflective Tape, 50mm Wide, 2.5m length	0.7	60°C (140°F)	20H2785	50.24
BRT-THG-3-100	Retroreflective Tape, 75mm Wide, 2.5m length	0.7	60°C (140°F)	20H2789	76.44

(73583)

SENSORS – PHOTOELECTRIC

SENSOR MOUNTING BRACKETS

Just Added

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Fig. 1



Fig. 2



Fig. 4



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10



Fig. 11

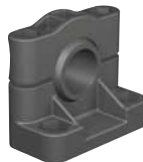


Fig. 12



Fig. 13



Fig. 14

Mfg. Part No.	Fig.	Description	For Use With	Stock No.	Price Each
SMB18A	1	12-Gauge, Stainless Steel, Right-Angle	MINI-BEAM, M18T, QS18, S18, T18	02H7579	3.18
SMBQS12PD	2	16-Gauge 300 Series Stainless Steel Right-Angle Barrel-Mount	M12	21H8786	3.20
SMB12FA	3	12mm Swivel Bracket	M12, MINI-BEAM@2	11R0621	10.64
SMB18FA	4	18mm Swivel Bracket	QS18/QS18U, MINI-BEAM, S18/M18/T18, S18U, Q45UR, M18C2/S18C2, T18U, T-GAGE M18T, EZ-LIGHT M18/T18	78K9532	10.64
SMB30FA	5	30mm Swivel Bracket	QS30, SM30/SMI30, S30, T30/T30U, EZ-LIGHT T30	78K9534	10.64
SMB30MM	6	30mm, 12-Gauge, Stainless Steel	Q45, OTB, QS30	02H7581	5.29
SMBLASRA	7	316 Stainless Steel Right-Angle	Sealed Linear Array	51M6549	112.16
SMB312S	8	Stainless Steel 2-Axis, Side-Mount	SM312	02H7583	4.23
SMBQS30L	9	14-Gauge, Stainless Steel Right-Angle	QS30H20	21H8790	4.26
SMB55F	10	12-Gauge Stainless Steel Flat Mount	R58E	21H8850	9.52
SMB55RA	11	12-Gauge Stainless Steel Right Angle	R58E	21H8851	9.52
SMB18SF	12	18mm Swivel Bracket, Black Thermoplastic Polyester	MINI-BEAM, M18T, QS18, S18, T18	02H7580	7.40
SMB30SC	13	30mm Swivel Bracket, Black Reinforced Thermoplastic Polyester	Q45, OTB, QS30	02H7582	7.40
SMBQS30Y	14	Wrap-Around Die-Cast Bracket	QS30 (DC only)	21H8792	5.32

(73586)

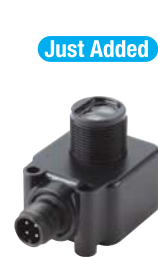
SM SERIES MINIATURE PHOTOELECTRIC SENSORS

UL CE

EATON

Just Added

- Miniature size measures just 1.7" tall, 1.29" wide and 1.63" deep
- Visible sensing beams and TargetLock™ marginal gain LED for easy install and alignment
- Multiple mounting options including industry-standard 18mm threads
- Available in AC/DC or DC-only voltages
- DC models feature both NPN and PNP outputs
- Perfect Prox® models offer the most reliable background rejection
- Reverse polarity, overload and short circuit protection
- Available with 6 ft. (2m) cable or 4-pin Euro quick-disconnect



THRU-BEAM MODE - SOURCE

Mfg. Part No.	Input Voltage	Range	Connection	Output Type	Stock No.	Price Each
E65-SMTS15-HA	10-30 VDC	50 ft. (15m)	6.5 ft. (2m) Cable	N/A	47K7725	41.58
E65-SMTS15-HAD	10-30 VDC	50 ft. (15m)	4-Pin Micro Connector	N/A	47K7726	41.58

THRU-BEAM MODE - DETECTOR

E65-SMTD15-HD	10-30 VDC	50 ft. (15m)	6.5 ft. (2m) Cable	NPN/PNP, 100 mA	47K7721	63.51
E65-SMTD15-HDD	10-30 VDC	50 ft. (15m)	4-Pin Micro Connector	NPN/PNP, 100 mA	47K7722	63.51

RETROREFLECTIVE MODE (POLARIZED)

E65-SMPR3-HD	10-30 VDC	10 ft. (3m)	6.5 ft. (2m) Cable	NPN/PNP, 100 mA	47K7709	83.16
E65-SMPR3-HDD	10-30 VDC	10 ft. (3m)	4-Pin Micro Connector	NPN/PNP, 100 mA	47K7710	83.16
E65-SMPR3-GD	18-50 VDC/18-264 VAC	10 ft. (3m)	6.5 ft. (2m) Cable	VMOS, 200 mA	47K7705	100.80
E65-SMPR3-GDD	18-50 VDC/18-264 VAC	10 ft. (3m)	4-Pin Micro Connector	VMOS, 200 mA	47K7706	100.80

RETROREFLECTIVE (DIFFUSE MODE WITH ADJUSTABLE GAIN)

E65-SMSD200-HL	10-30 VDC	8 in. (200mm)	6.5 ft. (2m) Cable	NPN/PNP, 100 mA	47K7719	70.06
E65-SMSD200-HLD	10-30 VDC	8 in. (200mm)	4-Pin Micro Connector	NPN/PNP, 100 mA	47K7720	70.06
E65-SMSD200-GL	18-50 VDC/18-264 VAC	8 in. (200mm)	6.5 ft. (2m) Cable	VMOS, 200 mA	47K7715	83.16
E65-SMSD200-GLD	18-50 VDC/18-264 VAC	8 in. (200mm)	4-Pin Micro Connector	VMOS, 200 mA	47K7716	83.16

PERFECT PROX BACKGROUND REJECTION MODE

E65-SMPP100-HL	10-30 VDC	4 in. (100mm)	6.5 ft. (2m) Cable	NPN/PNP, 100 mA	47K7703	111.89
E65-SMPP100-HLD	10-30 VDC	4 in. (100mm)	4-Pin Micro Connector	NPN/PNP, 100 mA	47K7704	111.89
E65-SMPP100-GL	18-50 VDC/18-264 VAC	4 in. (100mm)	6.5 ft. (2m) Cable	VMOS, 200 mA	47K7699	136.08
E65-SMPP100-GLD	18-50 VDC/18-264 VAC	4 in. (100mm)	4-Pin Micro Connector	VMOS, 200 mA	47K7700	136.08

MOUNTING BRACKETS

Mfg. Part No.	Description	Stock No.	Price Each
6161AS6501	Right Angle Mounting Bracket for SM Series, Aluminum with Chromate Finish	44K9636	7.56

RETROREFLECTORS AND RETROREFLECTIVE TAPE

6200A-6504	1.25 in. Diameter Corner Cube Retroreflector, Adhesive Backed	44K9652	6.20
6200A-6502	2.18 in. Diameter Corner Cube Retroreflector, Adhesive Backed	44K9651	6.66
6200A-6506	3 in. Diameter Corner Cube Retroreflector, Metal Backed with Mounting Hole	44K9654	17.85
6201A-XXXX	2 in. Wide Retroreflective Tape, Adhesive Backed, 1 ft. Length	44K9659	28.73

MICRO CONNECTOR CABLES

CSDS4A4CY2202	4-Pin, 4-Wire DC Micro Connector Cable, 22 AWG, PVC Jacket, 6.5 ft. (2m)	46K1910	15.51
CSAS4F4CY2202	4-Pin, 4-Wire AC Micro Connector Cable, 22 AWG, PVC Jacket, 6.5 ft. (2m)	46K1843	24.91

(142270)

Expert technical support

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(148838)

SENSORS – PHOTOELECTRIC

ENHANCED 50 SERIES
PHOTOELECTRIC SENSORS

Just Added **FATON**

- Outstanding optical performance
- All units offer light/dark selection
- Available in AC/DC and DC-only voltages
- Fully potted construction for use in tough applications
- Power, output and alignment indicator LEDs
- Industry standard package size measures 3.46" tall by 1.81" wide by 1.91" deep
- Available with 6 ft. (2m) cable or 4-pin Euro quick-disconnect



Cable



Quick-Disconnect

THRU-BEAM MODE - SOURCE

Mfg. Part No.	Input Voltage	Range	Connection	Output Type	Stock No.	Price Each
1151E-6517	10-40 VDC	500 ft. (152m)	6.5 ft. (2m) Cable	N/A	44K5070	81.45
1151E-6547	10-40 VDC	500 ft. (152m)	4-Pin Euro QD	N/A	44K5074	81.45
1151E-6513	12-240 VDC/24-240 VAC	500 ft. (152m)	6.5 ft. (2m) Cable	N/A	44K5069	81.45
1151E-6543	12-240 VDC/24-240 VAC	500 ft. (152m)	4-Pin Euro QD	N/A	44K5073	81.45

THRU-BEAM MODE - DETECTOR

1251E-6517	10-40 VDC	500 ft. (152m)	6.5 ft. (2m) Cable	NPN/PNP, 250 mA	44K5340	76.21
1251E-6547	10-40 VDC	500 ft. (152m)	4-Pin Euro QD	NPN/PNP, 250 mA	44K5345	76.21
1251E-6513	12-240 VDC/24-240 VAC	500 ft. (152m)	6.5 ft. (2m) Cable	Solid-State Relay, 300 mA	44K5338	83.87
1251E-6543	12-240 VDC/24-240 VAC	500 ft. (152m)	4-Pin Euro QD	Solid-State Relay, 300 mA	44K5344	83.87

RETROREFLECTIVE MODE (POLARIZED)

1451E-6517	10-40 VDC	16 ft. (4.9m)	6.5 ft. (2m) Cable	NPN/PNP, 250 mA	44K5912	94.35
1451E-6547	10-40 VDC	16 ft. (4.9m)	4-Pin Euro QD	NPN/PNP, 250 mA	44K5917	94.35
1451E-6513	12-240 VDC/24-240 VAC	16 ft. (4.9m)	6.5 ft. (2m) Cable	Solid-State Relay, 300 mA	44K5910	103.22
1451E-6543	12-240 VDC/24-240 VAC	16 ft. (4.9m)	4-Pin Euro QD	Solid-State Relay, 300 mA	44K5916	103.22

DIFFUSE MODE WITH ADJUSTABLE GAIN

1351E-6517	10-40 VDC	10 ft. (3m)	6.5 ft. (2m) Cable	NPN/PNP, 250 mA	44K5638	96.77
1351E-6547	10-40 VDC	10 ft. (3m)	4-Pin Euro QD	NPN/PNP, 250 mA	44K5643	96.77
1351E-6513	12-240 VDC/24-240 VAC	10 ft. (3m)	6.5 ft. (2m) Cable	Solid-State Relay, 300 mA	44K5636	104.84
1351E-6543	12-240 VDC/24-240 VAC	10 ft. (3m)	4-Pin Euro QD	Solid-State Relay, 300 mA	44K5642	104.84

MOUNTING BRACKETS

Mfg. Part No.	Description	Stock No.	Price Each
6150E-6503	Right Angle Mounting Bracket with Ball Swivel, Plastic	44K9629	8.39
6150E-6501	Right Angle Mounting Bracket with Slotted Mounting Holes, Nickel Plated Steel	44K9627	6.34

RETROREFLECTORS AND RETROREFLECTIVE TAPE

6200A-6504	1.25 in. Diameter Corner Cube Retroreflector, Adhesive Backed	44K9652	6.20
6200A-6502	2.18 in. Diameter Corner Cube Retroreflector, Adhesive Backed	44K9651	6.66
6200A-6506	3 in. Diameter Corner Cube Retroreflector, Metal Backed with Mounting Hole	44K9654	17.85
6201A-XXXX	2 in. Wide Retroreflective Tape, Adhesive Backed, 1 ft. Length	44K9659	28.73

MICRO CONNECTOR CABLES

CSDS4A4CY2202	4-Pin, 4-Wire DC Micro Connector Cable, 22 AWG, PVC Jacket, 6.5 ft. (2m)	46K1910	15.51
CSAS4F4CY2202	4-Pin, 4-Wire AC Micro Connector Cable, 22 AWG, PVC Jacket, 6.5 ft. (2m)	46K1843	24.91

(142271)

COMET SERIES PHOTOELECTRIC SENSORS



Just Added **FATON**



Just Added

- Flat 18mm tubular package style can be mounted on a flat surface or through a hole
- Solid polyurethane housing completely encapsulates internal circuits
- Right-angle viewing models mount in a depth of just 3/4"
- Visible sensing beams let you see where the sensor is aimed for easy install
- Available in AC/DC or DC-only voltages
- Perfect Prox[®] technology provides unmatched background rejection
- Gain adjustment on all models to ensure peak optical performance
- Enclosure rating NEMA 1, 2, 3, 4, 4X, 6, 12 and 13
- Available with M12 micro connector or 2-meter cable
- Viewing Angle available: Right-Angle Sensing and Forward Sensing

THRU-BEAM MODE (FOR A COMPLETE SYSTEM, ORDER IN PAIRS)

Mfg. Part No.	Input Voltage	Range	Connection	Output Type	Stock No.	Price Each
11102AQD07	10-30 VDC	80 ft. (24m)	4-Pin Micro Connector	N/A	44K5036	102.55
12102AQD07	10-30 VDC	80 ft. (24m)	4-Pin Micro Connector	NPN/PNP, 300mA	44K5140	135.48
11102A6517	10-30 VDC	80 ft. (24m)	6.5 ft. (2m) Cable	N/A	44K5038	82.32
12102A6517	10-30 VDC	80 ft. (24m)	6.5 ft. (2m) Cable	NPN/PNP, 300mA	44K5142	111.96
11102AQD03	10-30 VDC/20-264 VAC	80 ft. (24m)	4-Pin Micro Connector	N/A	44K5035	113.84
12102AQD03	15-30 VDC/20-264 VAC	80 ft. (24m)	4-Pin Micro Connector	VMOS/NPN, 300mA	44K5139	154.30
11102A6513	15-30 VDC/20-264 VAC	80 ft. (24m)	6.5 ft. (2m) Cable	N/A	44K5037	93.61
12102A6513	15-30 VDC/20-264 VAC	80 ft. (24m)	6.5 ft. (2m) Cable	VMOS/NPN, 300mA	44K5141	136.42
11100RQD07	10-30 VDC	20 ft. (6m)	4-Pin Micro Connector	N/A	44K5030	82.32
12100RQD07	10-30 VDC	20 ft. (6m)	4-Pin Micro Connector	NPN/PNP, 300mA	44K5135	111.96
11100R6517	10-30 VDC	20 ft. (6m)	6.5 ft. (2m) Cable	N/A	44K5034	63.51
12100R6517	10-30 VDC	20 ft. (6m)	6.5 ft. (2m) Cable	NPN/PNP, 300mA	44K5138	92.67
11100RQD03	15-30 VDC/20-264 VAC	20 ft. (6m)	4-Pin Micro Connector	N/A	44K5029	93.61
12100RQD03	15-30 VDC/20-264 VAC	20 ft. (6m)	4-Pin Micro Connector	VMOS/NPN, 300mA	44K5134	136.42
11100R6513	15-30 VDC/20-264 VAC	20 ft. (6m)	6.5 ft. (2m) Cable	N/A	44K5033	73.86
12100R6513	15-30 VDC/20-264 VAC	20 ft. (6m)	6.5 ft. (2m) Cable	VMOS/NPN, 300mA	44K5137	113.84

RETROREFLECTIVE MODE (POLARIZED)

14101AQD07	10-30 VDC	15 ft. (4.5m)	4-Pin Micro Connector	NPN/PNP, 300mA	44K5772	135.48
14101A6517	10-30 VDC	15 ft. (4.5m)	6.5 ft. (2m) Cable	NPN/PNP, 300mA	44K5776	111.96
14101AQD03	15-30 VDC/20-264 VAC	15 ft. (4.5m)	4-Pin Micro Connector	VMOS/NPN, 300mA	44K5771	159.94
14101A6513	15-30 VDC/20-264 VAC	15 ft. (4.5m)	6.5 ft. (2m) Cable	VMOS/NPN, 300mA	44K5775	143.01
14101RQD07	10-30 VDC	10 ft. (3m)	4-Pin Micro Connector	NPN/PNP, 300mA	44K5778	143.01
14101R6517	10-30 VDC	10 ft. (3m)	6.5 ft. (2m) Cable	NPN/PNP, 300mA	44K5780	121.37
14101RQD03	15-30 VDC/20-264 VAC	10 ft. (3m)	4-Pin Micro Connector	VMOS/NPN, 300mA	44K5777	169.35
14101R6513	15-30 VDC/20-264 VAC	10 ft. (3m)	6.5 ft. (2m) Cable	VMOS/NPN, 300mA	44K5779	148.65

DIFFUSE MODE WITH ADJUSTABLE GAIN (STANDARD BEAM: 2 IN. FIELD OF VIEW @ 5 IN.)

13100AQD07	10-30 VDC	24 in. (610mm)	4-Pin Micro Connector	NPN/PNP, 300mA	44K5489	127.95
13100A6517	10-30 VDC	24 in. (610mm)	6.5 ft. (2m) Cable	NPN/PNP, 300mA	44K5491	106.31
13100AQD03	15-30 VDC/20-264 VAC	24 in. (610mm)	4-Pin Micro Connector	VMOS/NPN, 300mA	44K5488	154.30
13100A6513	15-30 VDC/20-264 VAC	24 in. (610mm)	6.5 ft. (2m) Cable	VMOS/NPN, 300mA	44K5490	136.42
13100RQD07	10-30 VDC	24 in. (610mm)	4-Pin Micro Connector	NPN/PNP, 300mA	44K5493	127.95
13100R6517	10-30 VDC	24 in. (610mm)	6.5 ft. (2m) Cable	NPN/PNP, 300mA	44K5495	106.31

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SENSORS – PHOTOELECTRIC

COMET SERIES PHOTOELECTRIC SENSORS (CONT.)

DIFFUSE MODE WITH ADJUSTABLE GAIN (STANDARD BEAM: 2 IN. FIELD OF VIEW @ 5 IN.)

Mfg. Part No.	Input Voltage	Range	Connection	Output Type	Stock No.	Price Each
13100RQD03	15-30 VDC/ 20-264 VAC	24 in. (610mm)	4-Pin Micro Connector	VMOS/NPN 300mA	44K5492	154.30
13100R6513	15-30 VDC/ 20-264 VAC	24 in. (610mm)	6.5 ft (2m) Cable	VMOS/NPN 300mA	44K5494	136.42

DIFFUSE MODE WITH ADJUSTABLE GAIN (WIDE BEAM: 4.3 IN. FIELD OF VIEW @ 3 IN.)

13107ASQD07	10-30 VDC	6 in. (150mm)	4-Pin Micro Connector	NPN/PNP 300mA	70M9020	204.29
13107AS6517	10-30 VDC	6 in. (150mm)	6.5 ft (2m) Cable	NPN/PNP 300mA	63P9154	106.31
13107ASQD03	15-30 VDC/ 20-264 VAC	6 in. (150mm)	4-Pin Micro Connector	VMOS/NPN 300mA	63P9153	154.30
13107AS6513	15-30 VDC/ 20-264 VAC	6 in. (150mm)	6.5 ft (2m) Cable	VMOS/NPN 300mA	12M5894	199.50
13107RSQD07	10-30 VDC	6 in. (150mm)	4-Pin Micro Connector	NPN/PNP 300mA	44K5556	127.95
13107RS6517	10-30 VDC	6 in. (150mm)	6.5 ft (2m) Cable	NPN/PNP 300mA	63P9156	106.31
13107RSQD03	15-30 VDC/ 20-264 VAC	6 in. (150mm)	4-Pin Micro Connector	VMOS/NPN 300mA	44K5555	154.30
13107RS6513	15-30 VDC/ 20-264 VAC	6 in. (150mm)	6.5 ft (2m) Cable	VMOS/NPN 300mA	63P9155	136.42

PERFECT PROX BACKGROUND REJECTION MODE

13101AQD07	10-30 VDC	4 in. (100mm)	4-Pin Micro Connector	NPN/PNP 300mA	44K5497	154.30
13101A6517	10-30 VDC	4 in. (100mm)	6.5 ft (2m) Cable	NPN/PNP 300mA	44K5503	136.42
13101AQD03	15-30 VDC/ 20-264 VAC	4 in. (100mm)	4-Pin Micro Connector	VMOS/NPN 300mA	44K5496	187.22
13101A6513	15-30 VDC/ 20-264 VAC	4 in. (100mm)	6.5 ft (2m) Cable	VMOS/NPN 300mA	44K5502	165.58
13104RS007	10-30 VDC	4 in. (100mm)	4-Pin Micro Connector	NPN/PNP 300mA	44K5535	154.30
13104RS020	10-30 VDC	4 in. (100mm)	6.5 ft (2m) Cable	NPN/PNP 300mA	44K5537	136.42
13104RS003	15-30 VDC/ 20-264 VAC	4 in. (100mm)	4-Pin Micro Connector	VMOS/NPN 300mA	44K5534	187.22
13104RS013	15-30 VDC/ 20-264 VAC	4 in. (100mm)	6.5 ft (2m) Cable	VMOS/NPN 300mA	44K5536	165.58
13103AQD07	10-30 VDC	9 in. (225mm)	4-Pin Micro Connector	NPN/PNP 300mA	44K5514	154.30
13103A6517	10-30 VDC	9 in. (225mm)	6.5 ft (2m) Cable	NPN/PNP 300mA	44K5516	136.42
13103AQD03	15-30 VDC/ 20-264 VAC	9 in. (225mm)	4-Pin Micro Connector	VMOS/NPN 300mA	44K5513	187.22
13103A6513	15-30 VDC/ 20-264 VAC	9 in. (225mm)	6.5 ft (2m) Cable	VMOS/NPN 300mA	44K5515	165.58
13103RQD07	10-30 VDC	9 in. (225mm)	4-Pin Micro Connector	NPN/PNP 300mA	44K5518	154.30
13103R6517	10-30 VDC	9 in. (225mm)	6.5 ft (2m) Cable	NPN/PNP 300mA	44K5520	136.42
13103RQD03	15-30 VDC/ 20-264 VAC	9 in. (225mm)	4-Pin Micro Connector	VMOS/NPN 300mA	44K5517	187.22
13103R6513	15-30 VDC/ 20-264 VAC	9 in. (225mm)	6.5 ft (2m) Cable	VMOS/NPN 300mA	44K5519	165.58

MOUNTING BRACKETS

Mfg. Part No.	Description	Stock No.	Price Each
6161AS5296	Flush Flat Mounting Bracket for Comet, 304 Stainless Steel	44K9634	8.30
E58KS5200	Adjustable Protective Bracket for Comet, Black Painted Steel	47K7507	38.51
6181AS5200	Ball Swivel Mounting Bracket, Provides 10° Tilt, Made of Nylon	44K9645	36.70

RETROREFLECTORS AND RETROREFLECTIVE TAPE

6200A-6504	1.25 in. Diameter Corner Cube Retroreflector, Adhesive Backed	44K9652	6.20
6200A-6502	2.18 in. Diameter Corner Cube Retroreflector, Adhesive Backed	44K9651	6.66
6200A-6506	3 in. Diameter Corner Cube Retroreflector, Metal Backed with Mounting Hole	44K9654	17.85
6201A-XXXX	2 in. Wide Retroreflective Tape, Adhesive Backed, 1 ft. Length	44K9659	28.73

MICRO CONNECTOR CABLES

CSDS4A4CY2202	4-Pin, 4-Wire DC Micro Connector Cable, 22 AWG, PVC Jacket, 6.5 ft. (2m)	46K1910	15.51
CSAS4F4CY2202	4-Pin, 4-Wire AC Micro Connector Cable, 22 AWG, PVC Jacket, 6.5 ft. (2m)	46K1843	24.91

(142289)

PHOTOELECTRIC SENSORS



Just Added



Features:

- Ultra short body length
- For sensing of light colored/reflective objects
- Universal mounting via M18 nut or side mounting
- Easy to view LED indicators (green for power and yellow for output)
- Adjustable potentiometer
- Dual output

Specifications:

- Housing material: PBT
- Max. current: 150mA
- Switching speed: 1,000Hz
- Supply voltage: 10-30VDC
- Termination: 2m cable
- IP66 sealed



Mfg. Part No.	Sensing Mode	M18 Threads W x D x L (mm)	Max. Sensing Range	Output Type	Stock No.	Price Each
CGPS-UR-10N	Diffuse-Reflective	13.5x29x40	0-100mm	NPN NO/NC	08R0951	53.93
CGPS-UR-10P	Diffuse-Reflective	13.5x29x40	0-100mm	PNP NO/NC	08R0952	53.93
CGPS-UR-30N	Diffuse-Reflective	13.5x29x40	0-300mm	NPN NO/NC	08R0953	53.93
CGPS-UR-30P	Diffuse-Reflective	13.5x29x40	0-300mm	PNP NO/NC	08R0954	53.93
CGPS-UG-6MN	Retroreflective	13.5x29x40	0-6m	NPN NO/NC	08R0949	53.93
CGPS-UG-6MP	Retroreflective	13.5x29x40	0-6m	PNP NO/NC	08R0950	53.93
CGPS-UG-3MNE	Polarized Retroreflective	13.5x29x40	0-3m	NPN NO/NC	08R0947	53.93
CGPS-UG-3MPE	Polarized Retroreflective	13.5x29x40	0-3m	PNP NO/NC	08R0948	53.93
CGPS-UT-20MN	Through-Beam	13.5x29x40	0-20m	NPN NO/NC	08R0955	54.11
CGPS-UT-20MP	Through-Beam	13.5x29x40	0-20m	PNP NO/NC	08R0956	54.11
CGPS-UT-6MN	Through-Beam	13.5x29x40	0-6m	NPN NO/NC	08R0957	54.11
CGPS-UT-6MP	Through-Beam	13.5x29x40	0-6m	PNP NO/NC	08R0958	54.11

(147866)

S15 SERIES M18 TUBULAR PHOTOELECTRIC SENSORS



- Cable or pig-tail versions
- No sensitivity adjustment trimmer
- IP69K mechanical protection
- Small housing of only 40 mm
- Operation Mode: Light/Dark select



Mfg. Part No.	Sensing Mode	Output	Sensing Range	Stock No.	Price Each
S15-PA-2-B00-NK	Polarized Retroreflective	NPN-2m cable	3 m	08R5328	62.84
S15-PA-2-B00-PK	Polarized Retroreflective	PNP-2m cable	3 m	08R5329	62.84
S15-PA-2-C00-NK	Diffuse	NPN-2m cable	400 mm	08R5330	69.23
S15-PA-2-C00-PK	Diffuse	PNP-2m cable	400 mm	08R5331	69.23
S15-PA-2-F00-NK	Through-Beam receiver	NPN-2m cable	20 m	08R5332	48.99
S15-PA-2-F00-PK	Through-Beam receiver	PNP-2m cable	20 m	08R5333	48.99
S15-PA-2-G00-XG	Through-Beam emitter	-2m cable	20 m	08R5334	45.80

(147896)

S51 SERIES M18 TUBULAR PHOTOELECTRIC SENSORS



- Selectable dark or light output
- Fast response time
- Cable or M12 connection with NPN or PNP output
- IP67

The **S51 series** offers a cost-effective solution in M18 photoelectric sensors. With a wide unique flat cylindrical housing, wide range of optics function and mounting accessories, the S51 sensors are ideal for applications in all industries, including packaging, bottling, assembly, and material handling.

SENSORS

Mfg. Part No.	Function	Connection	Output Type	Sensing Range	Stock No.	Price Each
S51-PA-2-F00-NK	Through-Beam Receiver	M12 Cable	NPN	0 - 18 m	67M9113	50.69
S51-PA-2-F00-PK	Through-Beam Receiver	M12 Cable	PNP	0 - 18 m	67M9114	52.01
S51-PA-5-F00-NK	Through-Beam Receiver	M12 Connector	NPN	0 - 18 m	67M9124	54.38
S51-PA-5-F00-PK	Through-Beam Receiver	M12 Connector	PNP	0 - 18 m	67M9125	55.79

➔ CONTINUED ➔

SENSORS – PHOTOELECTRIC

S51 SERIES M18 TUBULAR PHOTOELECTRIC SENSORS (CONT.)

Mfg. Part No.	Function	Connection	Output Type	Sensing Range	Stock No.	Price Each
● S51-PA-2-G00-XG	Through-Beam Emitter	2m Cable	...	0 - 18 m	67M9115	46.89
● S51-PA-5-G00-XG	Through-Beam Emitter	M12 Connector	...	0 - 18 m	67M9126	50.58
● S51-PA-2-A00-NK	Retroreflective	2m Cable	NPN	0.1 - 4 m	67M9105	54.73
● S51-PA-2-A00-PK	Retroreflective	2m Cable	PNP	0.1 - 4 m	67M9106	54.73
● S51-PA-5-A00-NK	Retroreflective	M12 Connector	NPN	0.1 - 4 m	67M9116	58.51
● S51-PA-5-A00-PK	Retroreflective	M12 Connector	PNP	0.1 - 4 m	67M9117	47.59
● S51-PA-2-B01-NK	Polarized Retroreflective	2m Cable	NPN	0.1 - 3 m	67M9107	64.17
● S51-PA-2-B01-PK	Polarized Retroreflective	2m Cable	PNP	0.1 - 3 m	67M9108	65.84
● S51-PA-5-B01-NK	Polarized Retroreflective	M12 Connector	NPN	0.1 - 3 m	67M9118	66.94
● S51-PA-5-B01-PK	Polarized Retroreflective	M12 Connector	PNP	0.1 - 3 m	67M9119	68.68
● S51-PA-2-C01-NK	Diffuse	2m Cable	NPN	1 - 40 cm	67M9109	70.74
● S51-PA-2-C01-PK	Diffuse	2m Cable	PNP	1 - 40 cm	67M9110	72.58
● S51-PA-5-C01-NK	Diffuse	M12 Connector	NPN	1 - 40 cm	67M9120	73.39
● S51-PA-5-C01-PK	Diffuse	M12 Connector	PNP	1 - 40 cm	67M9121	75.30

MOUNTING BRACKETS

Mfg. Part No.	Description	Stock No.	Price Each
● G5000001	Front protection	67M9101	21.93 20.91
● 895000006	1pc adjustable support for M18 tubular	67M9165	7.74 7.38
● 95ACC1370	2 pcs fixed support for M18 tubular	67M9198	3.87 3.69
● 95ACC5230	M18/14 mounting bracket	67M9176	5.16 4.92
● 95ACC5240	M18 mounting bracket	67M9177	3.46 3.10
● 95ACC5250	M18 mounting bracket	67M9178	3.87 3.69
● 95ACC5270	M18 mounting bracket	67M9179	3.87 3.69
● 95ACC5300	M18/14 adjustable mounting support	67M9180	6.45 6.15
● 95ACC5220	M18 jointed support	67M9175	30.96 29.52
● 95ACC1380	Support with micrometric regulation for M18 tubular	67M9309	43.86 41.82

REFLECTORS

● S940700023	23mm prismatic, 31mm support	67M9158	9.03 8.61
● S19120000	36 x 176mm prismatic, 41 x 181mm support	67M9104	14.19 13.53
● S940700048	48mm prismatic, 63mm support	67M9159	12.90 12.30
● S940700075	75mm prismatic, 82mm support	67M9160	14.19 13.53
● S940700972	18 x 54mm prismatic, 22 x 82mm support	67M9161	9.03 8.61
● S940710048	48mm prismatic, CH.52mm hexagon support	67M9162	14.19 13.53
● 95A151010	47 x 47mm prismatic, 51.5 x 61mm support	67M9186	16.77 15.99
● 95A151020	36 x 55mm prismatic, 40.5 x 60mm support	67M9187	16.77 15.99
● 95A151050	38 x 40mm micropism, 51 x 60.7mm support	67M9188	32.25 30.75
● 95A151060	9.7 x 19mm micropism, 13.8 x 23mm support	67M9189	18.06 17.22
● 95A151080	23mm prismatic, 25mm self-adhesive support	67M9190	9.03 8.61
● 95A151090	48mm prismatic, 63mm support	67M9191	25.80 24.60
● 95A155050	146 x 15mm prismatic, 150 x 18mm support	67M9192	21.93 20.91

(107890)

DS1 SERIES PHOTOELECTRIC SENSOR

- Power Supply: 24VDC
- Load Current Output: 100mA
- Response Time: 1ms - 2.75ms
- Resolution: 5 - 7mm
- 100 to 300mm height
- Operating Temperature: 0 to +55°C



DS1 series sensor suitable for detection and measurement of objects with different shapes and sizes. PNP digital and 0-10V analog outputs.

Mfg. Part No.	Sensing Mode	Output Type	Sensing Range (m)	Stock No.	Price Each
● DS1-LD-HR-015-JV	Through-Beam	PNP	0.15 - 2.1	67M9100	992.53 891.77

(107870)

New products added weekly

(148886)

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LD46 SERIES UV LED EMISSION PHOTOELECTRIC SENSOR



- Power Supply: 15 - 30VDC
- Output Current: 100mA
- Response Time: 250us
- Operating Temperature: -10 to +55°C
- UV luminescent mark detection
- High-powered UV emission
- Fast switching frequency
- Easy setting with a clear bar graph indicator

Luminescence sensors emit ultraviolet (UV) light and receive visible light reflected from luminescent surfaces.

Mfg. Part No.	Sensing Mode	Output Type	Sensing Range (mm)	Stock No.	Price Each
● LD46-UL-715	Reflective	NPN/PNP	10 - 20	67M9102	1210.37 1087.49

LENS

Mfg. Part No.	Description	Stock No.	Price Each
● 95ACC1220	Plastic lens with 40mm focus	67M9168	51.60 49.20

(107871)

TL46 SERIES CONTRAST PHOTOELECTRIC SENSOR



- Power Supply: 10 - 30VDC
- Output Current: 100mA
- Response Time: 25us
- Automatic, manual and dynamic setting
- Standard mounting, M12 connector
- Operating Temperature: -10 to +55°C

TL46 series digital contrast sensor is characterized in terms of resolution, definition and precision of the light spot emitted by RGB LEDs, fast response time and high switching speed.

Mfg. Part No.	Output Type	Operating Mode	Sensing Range (mm)	Stock No.	Price Each
● TL46-WL-815	NPN/PNP	Dark/Light	6 - 12	67M9163	432.23 389.23

LENSES

Mfg. Part No.	Description	Stock No.	Price Each
● 95ACC2540	Plastic lens with 9mm focus	67M9174	20.64 19.68
● 95ACC1030	Plastic lens with 18mm focus	67M9166	49.02 46.74
● 95ACC1100	Plastic lens with 22mm focus	67M9167	59.34 56.58
● 890000194	Plastic lens with 28mm focus	67M9164	59.34 56.58
● 95ACC1220	Plastic lens with 40mm focus	67M9168	51.60 49.20

(107873)

S62 SERIES HIGH-PERFORMANCE PHOTOELECTRIC SENSORS



- Power Supply: 10 - 30VDC
- Output Current: 100mA
- High-resolution with LED or Laser emission
- NPN or PNP double output with standard NO-NC configuration
- Sturdy ABS housing with compact 18x50x50mm dimensions
- Operating Temperature: -10 to +55°C

Mfg. Part No.	Sensing Mode	Output Type	Sensing Range	Stock No.	Price Each
● S62-PA-5-M01-NN	Background Suppression	NPN NO/NC	30 - 300 mm	67M9138	193.62
● S62-PA-5-M01-PP	Background Suppression	PNP, NO/NC	30 - 330 mm	67M9139	193.62
● S62-PA-5-M11-NN	Background Suppression	NPN NO/NC	60 - 600 mm	67M9140	208.75
● S62-PA-5-M11-PP	Background Suppression	PNP, NO/NC	60 - 600 mm	67M9141	208.75

➤ CONTINUED ➤

SENSORS – PHOTOELECTRIC

S62 SERIES HIGH-PERFORMANCE PHOTOELECTRIC SENSORS (CONT.)

Mfg. Part No.	Sensing Mode	Output Type	Sensing Range	Stock No.	Price Each
● S62-PA-5-M21-NN	Background Suppression	NPN NO/NC	60 - 1200 mm	67M9142	239.00
● S62-PA-5-M21-PP	Background Suppression	PNP, NO/NC	60 - 1200 mm	67M9143	239.00
● S62-PA-5-M31-NN	Background Suppression	NPN NO/NC	200 - 2000 mm	67M9144	269.26
● S62-PA-5-M31-PP	Background Suppression	PNP, NO/NC	200 - 2000 mm	67M9145	269.26
● S62-PL-5-B01-NN	Polarized Retroreflective	NPN NO/NC	0.3 - 20 m	67M9146	378.24
● S62-PL-5-B01-PP	Polarized Retroreflective	PNP, NO/NC	0.3 - 20 m	67M9147	378.24
● S62-PL-5-M11-NN	Background Suppression	NPN NO/NC	50 - 350 mm	67M9148	453.89
● S62-PL-5-M11-PP	Background Suppression	PNP, NO/NC	50 - 350 mm	67M9149	453.89

MOUNTING BRACKETS

Mfg. Part No.	Description	Stock No.	Price Each
● 95ACC2410	Protection bracket	67M9172	5.16 4.92
● 95ACC2420	Protection bracket	67M9173	7.74 7.38
● 95ACC5330	Mounting bracket	67M9183	3.87 3.69
● 95ACC5340	Mounting bracket	67M9184	3.87 3.69

REFLECTORS

● S940700023	23mm prismatic, 31mm support	67M9158	9.03	8.61
● S19120000	36 x 176mm prismatic, 41 x 181mm support	67M9104	14.19	13.53
● S940700048	48mm prismatic, 63mm support	67M9159	12.90	12.30
● S940700075	75mm prismatic, 82mm support	67M9160	14.19	13.53
● S940700972	18 x 54mm prismatic, 22 x 82mm support	67M9161	9.03	8.61
● S940710048	48mm prismatic, CH.52mm hexagon support	67M9162	14.19	13.53
● 95A151010	47 x 47mm prismatic, 51.5 x 61mm support	67M9186	16.77	15.99
● 95A151020	36 x 55mm prismatic, 40.5 x 60mm support	67M9187	16.77	15.99
● 95A151050	38 x 40mm microprism, 51 x 60.7mm support	67M9188	32.25	30.75
● 95A151060	9.7 x 19mm microprism, 13.8 x 23mm support	67M9189	18.06	17.22
● 95A151080	23mm prismatic, 25mm self-adhesive support	67M9190	9.03	8.61
● 95A151090	48mm prismatic, 63mm support	67M9191	25.80	24.60
● 95A155050	146 x 15mm prismatic, 150 x 18mm support	67M9192	21.93	20.91

(107892)

S65 SERIES COLOR PHOTOELECTRIC SENSORS



- Power Supply: 10 - 30VDC
- Output Current: 100mA
- Response Time: 1ms (FAST); 5ms (NORM)
- 3 channel color sensor with C or C+I functions and 10 tolerance levels
- 3 independent NPN or PNP outputs and RS485 serial interface
- 2-pushbutton easy setting and 4-digit display
- Operating Temperature: -10 to +55°C



S65 series color sensors offers the best performance for color detection in a standard 50 x 50 x 25mm housing. The sensor can memorize and recognize 3 colors on 3 independent channel. C (chromaticity) or C+I (chromaticity and intensity) detection algorithm and tolerance levels can be selected for each color.

Mfg. Part No.	Output Type	Sensing Range (mm)	Stock No.	Price Each
● S65-PA-5-V19-NNN	NPN, NO	5 - 45	67M9150	856.01 769.10
● S65-PA-5-V19-PPP	PNP, NO	5 - 45	67M9151	856.01 769.10

MOUNTING BRACKETS

Mfg. Part No.	Description	Stock No.	Price Each
● 95ACC5330	Mounting bracket	67M9183	3.87 3.69
● 95ACC5340	Mounting bracket	67M9184	3.87 3.69

(107874)

Current Order Status & History

Check the status of your current order or access past orders from our website under MY ACCOUNT eSuite. Log in or register today.

(148881)

S80 SERIES DISTANCE PHOTOELECTRIC SENSORS



- Power Supply: 15 - 30VDC
- Output Current: 100mA
- Response Time: 1ms (FAST); 5ms (NORM)
- Operating Temperature: -10 to +55°C
- 4-digit display and RS485 serial interface

S80 series, in a compact sturdy metal housing, offers an innovative class 2 laser distance sensor with time-of-flight measurement. All models have two outputs. Also offers the option to adjust the 4-20mA analog output.

Mfg. Part No.	Output Type	Sensing Range (m)	Stock No.	Price Each
● S80-MH-5-YL09-NNIZ	NPN	0.3 - 7	67M9153	1382.40 1244.16
● S80-MH-5-YL09-PPIZ	PNP	0.3 - 7	67M9154	1382.40 1244.16

MOUNTING BRACKET

Mfg. Part No.	Description	Stock No.	Price Each
● 95ACC2260	L shaped mounting bracket	67M9152	18.06 17.22

(107875)

S60 SERIES MULTIFUNCTION PHOTOELECTRIC SENSORS



- Power Supply: 10 - 30VDC
- Output Current: 100mA
- Operating Temperature: -25 to +55°C
- M12 connection with standard NPN and PNP configuration
- Long operating distance

S60 series sensors have a sensitivity adjustment that provides quick and precise setting of the switching threshold. They also have an M12 connection that can be used straight or rotated to a right-angle position.

Mfg. Part No.	Sensing Mode	Output Type	Sensing Range	Stock No.	Price Each
● S60-PA-5-B01-NN	Polarized Retroreflective	NPN	0.1 - 8 m	67M9127	129.79
● S60-PA-5-B01-PP	Polarized Retroreflective	PNP	0.1 - 8 m	67M9128	127.78
● S60-PA-5-C11-NN	Diffuse	NPN	5 - 200 cm	67M9131	133.05
● S60-PA-5-C11-PP	Diffuse	PNP	5 - 200 cm	67M9132	133.05
● S60-PA-5-F01-NN	Receiver	NPN	0 - 20 m	67M9133	114.54
● S60-PA-5-F01-PP	Receiver	PNP	0 - 20 m	67M9134	114.54
● S60-PA-5-G00-XG	Emitter	...	0 - 20 m	67M9135	99.25
● S60-PA-5-T51-NN	Retroreflective for Transparent	NPN	0 - 2 m	67M9136	140.50
● S60-PA-5-T51-PP	Retroreflective for Transparent	PNP	0 - 2 m	67M9137	138.33

CONNECTOR CABLES

Mfg. Part No.	Description	Stock No.	Price Each
SA9Z-CM8K-4S2	2m M8 cable	34M2074	20.90 18.70
SA9Z-CM8K-4L2	2m M8 angle cable	73H6186	20.90 18.70
SA9Z-CM8K-4S5	5m M8 cable	34M2075	27.17 24.31
SA9Z-CM8K-4L5	5m M8 right angle cable	34M2073	27.17 24.31

MOUNTING BRACKETS

● 95ACC5350	Protection bracket w/ jointed support	67M9185	36.12	34.44
● 95ACC1320	Mounting bracket	67M9169	5.16	4.92
● 95ACC5310	Protection bracket	67M9181	5.16	4.92
● 95ACC5320	Protection bracket	67M9182	6.45	6.15
● 95ACC5330	Mounting bracket	67M9183	3.87	3.69
● 95ACC5340	Mounting bracket	67M9184	3.87	3.69

REFLECTORS

● IAC-R5	R5 Standard Reflector	15C7070	9.26	8.29
● IAC-R6	R6 Small Reflector	33K1037	6.27	5.61
● S940700023	23mm prismatic, 31mm support	67M9158	9.03	8.61
● S19120000	36 x 176mm prismatic, 41 x 181mm support	67M9104	14.19	13.53
● S940700048	48mm prismatic, 63mm support	67M9159	12.90	12.30
● S940700075	75mm prismatic, 82mm support	67M9160	14.19	13.53
● S940700972	18 x 54mm prismatic, 22 x 82mm support	67M9161	9.03	8.61
● S940710048	48mm prismatic, CH.52mm hexagon support	67M9162	14.19	13.53
● 95A151010	47 x 47mm prismatic, 51.5 x 61mm support	67M9186	16.77	15.99
● 95A151020	36 x 55mm prismatic, 40.5 x 60mm support	67M9187	16.77	15.99
● 95A151050	38 x 40mm microprism, 51 x 60.7mm support	67M9188	32.25	30.75

➤ CONTINUED ➤

SENSORS – PHOTOELECTRIC

S60 SERIES MULTIFUNCTION PHOTOELECTRIC SENSORS (CONT.)

REFLECTORS

Mfg. Part No.	Description	Stock No.	Price Each	
			1-24	25-49
● 95A151060	9.7 x 19mm microprism, 13.8 x 23mm support	67M9189	18.06	17.22
● 95A151080	23mm prismatic, 25mm self-adhesive support	67M9190	9.03	8.61
● 95A151090	48mm prismatic, 63mm support	67M9191	25.80	24.60
● 95A155050	146 x 15mm prismatic, 150 x 18mm support	67M9192	21.93	20.91

(107891)

SA1U HEAVY DUTY PHOTOELECTRIC SENSORS

Just Added



- Long range sensing distance from 1 meter to 50 meters
- 3 A relay contact SPDT
- Time delay functions
- Spring up screw terminals
- 12-240 VDC / 24-240 VAC universal voltage
- Response time: 20 ms max.

These sensors are assembled in a fully automated robotic process and are UL/c-UL listed, CE marked and IP67 rated, making them ideal for use in wet environments such as bottling and food processing industries. Built-in 3 amp relay contacts (NO/NC) and time delay functions give customers the ability to configure the sensor for their specific needs. There are four timing delay functions to choose from: one shot, ON delay, OFF delay and normal mode, as well as a 0.1 to 5 second time range.

Mfg. Part No.	Sensing Mode	Sensing Range (m)	Time Delay Functions	Stock No.	Price Each
					1-24
SA1U-B02M	Background Suppression	2	Without	14P9725	151.53
SA1U-B02MT	Background Suppression	2	With	14P9726	161.98
SA1U-D01M	Diffuse	1	Without	14P9727	120.18
SA1U-D01MT	Diffuse	1	With	14P9728	130.63
SA1U-P07M	Polarized Retroreflective	7	Without	14P9729	130.63
SA1U-P07MT	Polarized Retroreflective	7	With	14P9730	141.08
SA1U-T50M	Through-Beam	50	Without	14P9731	151.53
SA1U-T50MT	Through-Beam	50	With	14P9732	161.98

(136224)

NEXT GENERATION MINIATURE PHOTOELECTRIC SENSORS



- Pin-Point Beam for Detecting Extremely Small Objects
- Thru-Beam, Retro-Reflective and Diffuse Models
- IP67
- 12-24VDC Input Voltage
- 50mA Max.
- Prewired with 6.6' (2m) of Cable
- Utilizes Omron's "Hyper LED" Technology to Achieve Industry's Smallest Visible Red Beam
- Self-Contained Sensor Ideal for Compact Applications
- Convergent-Beam Model Spot Diameter: 0.15mm
- CE Compliant

Mfg. Part No.	Sensing Method	Operation Mode	Sensing Range (mm)	Dimensions Inches (mm)	Stock No.	Price Each
						1-5
● E3T-FD13	Diffuse Flat	Light-On, NPN	5 - 30	0.82 x 0.47 x 0.15 (20.8 x 12 x 3.7)	12C0923	85.88
● E3T-FD11	Diffuse Flat	Light-On, NPN	5 - 30	0.82 x 0.47 x 0.15 (20.8 x 12 x 3.7)	88K1921	98.65
● E3T-SL11	Convergent Beam	Light-On, NPN	5 - 30	0.82 x 0.47 x 0.15 (20.8 x 12 x 3.7)	88K1922	85.88
● E3T-SR21-2M	Retro-Reflective	Light-On, NPN	10 - 200	0.57 x .028 x .037 (14.6 x 7 x 9.5)	12M6280	142.45
● E3T-ST11	Thru-Beam	Light-On, NPN	1000	0.57 x .028 x .037 (14.6 x 7 x 9.5)	88K1923	111.99
● E3T-ST12	Thru-Beam	Dark-On, NPN	1000	0.57 x .028 x .037 (14.6 x 7 x 9.5)	91F9324	111.99

(12926)

MINIATURE PHOTOELECTRIC SENSORS



- Long Sensing Distance
- High Noise Immunity
- NPN Output
- IP67 Water and Dust Rating
- Switch Selectable Light-On/Dark-On Operation
- 12 - 24VDC Supply Voltage
- Response Time: 1MS
- Pre-Wired 6.56' (2m) Cable Length

Dimensions: 1.2 x 0.66 x 0.4" (31 x 17 x 10.4mm). M8 connector type and PNP output models also available; go online or call. CE compliant.

Mfg. Part No.	Sensing Method	Sensing Distance	Connection	Stock No.	Price Each
					1-9
● E3Z-T61	Through-Beam	4.9"	Pre-wired	88K1925	114.25
● E3Z-R61	Polarized Reflective	3.9" to 9.8"	Pre-wired	93K7548	90.97
● E3Z-D62	Diffuse-Reflective	0.2" to 3.9"	Pre-wired	93K7547	86.86
● E3Z-D61	Diffuse-Reflective	0.2" to 3.9"	Pre-wired	88K1924	81.47
● E3ZD66	Diffuse-Reflective	0.2" to 3.9"	Connector	05J1679	125.86
● E3Z-R66	Polarized Reflective	3.9" to 9.8"	Connector	85C2080	139.19
● E3Z-T66	Through-Beam	0.2" to 3.9"	Connector	16M2426	158.88

(60874)

PLASTIC-BODY CYLINDRICAL PHOTOELECTRIC SENSORS



Just Added



- Threaded M18 size
- Built-in amplifier
- Chemical-resistant, ABS resin case type
- Polarized models available
- Compact and space-saving
- Long detection distance -- up to 7m
- DC switching types with connectors for easy maintenance
- Wide operating voltage range (10 to 30VDC, or 24 to 240VAC)
- Short-circuit and reverse connection protection (DC switching type)
- Light source: infrared LED

Dimensions: through-beam and retro-reflective: 90 x 16.8mm; diffuse reflective: 65 x 16.8mm. Pre-wired 2m (6.56') cable length. Power and light receive status indicators. Additional stainless and nickel-plated brass versions, polarized and connector versions and NPN types also available; go online or call. UL recognized, CSA certified, CE compliant, NEMA approved.

Mfg. Part No.	Sensing Method	Supply	Output	Sensing Range	Stock No.	Price Each
						1-9
● E3F2-7C4	Through-Beam	10-30VDC	NPN Light-On/Dark-On	22.96" (7m)	01C6969	110.31
● E3F2-DS10C4-N	Diffuse	10-30VDC	NPN Light-On/Dark-On	3.94" (10cm)	52F4365	83.41
● E3F2-3Z1	Through-Beam	24-240VAC	SCR Light-On	9.89' (3m)	27M2389	145.07
● E3F2-3Z2	Through-Beam	24-240VAC	SCR Dark-On	9.89' (3m)	27M2390	145.07
● E3F2-R2Z1	Retro-Reflective*	24-240VAC	SCR Light-On	6.56' (2m)	52F4360	99.13
● E3F2-R2Z2	Retro-Reflective*	24-240VAC	SCR Dark-On	6.56' (2m)	27M2388	100.94
E3F2-R4C4	Retro-Reflective*	24-240VAC	NPN	13.12' (4m)	10R5222	72.46
E3F2-R4C4-P1	Retro-Reflective*	24-240VAC	NPN	13.12' (4m)	10R5223	75.34
● E3F2-DS10Z1-N	Diffuse	24-240VAC	SCR Light-On	3.94" (10cm)	52F4363	96.41
● E3F2-DS10Z2-N	Diffuse	24-240VAC	SCR Dark-On	3.94" (10cm)	27M2386	96.41
● E3F2-DS30C4-P1	Diffuse	10-30VDC	NPN, Light-On/Dark-On	11.8" (30cm)	91B4841	141.02
● E3F27C4M1M†	Through-Beam	10-30VDC	NPN, Light-On/Dark-On	23' (7m)	66J6928	178.78
● E3F2-DS30C4-M1-M†	Diffuse	10-30VDC	NPN, Light-On/Dark-On	11.8" (30cm)	09H2011	121.30

*Includes Reflector †Nickel-plated brass body (3543)

TechCast® Product Training

(148857)

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SENSORS – PHOTOELECTRIC

HEAVY-DUTY, LONG-RANGE REFLECTIVE PHOTOELECTRIC SENSORS



- Universal AC/DC Supply Voltage: 42-240VAC, 24-240VDC
- DPDT 10A, 240VAC Output Standard
- Easy-to-Wire Terminal Strip
- Plug-In Replaceable Relay Outputs
- Light-ON/Dark-ON Operation, Switch Selectable
- Mutual Interference Protection
- Adjustable Sensitivity With Operation And Stability Indicators
- NEMA b4, 4X, 12, 13 and IP67
- Light Source: Infrared LED
- 3/4"-14NPT Conduit Entry

Dimensions: 7.32H x 3.50W x 2.48"D (186 x 89 x 63 mm). Mounting bracket and reflector for retroreflective type are included. UL recognized, CSA certified.



Mfg. Part No.	Description	Sensing Range	Supply Voltage (VAC)	Stock No.	Price Each
● E3K-R10K4	Non-Polarized Retroreflective	32.81' (10M)	42	27M2392	267.15
● E3K-D2K4	Diffuse Reflective	6.56' (2M)	42	52F4335	302.39

(3541)

E3G SERIES LONG-DISTANCE PHOTOELECTRIC SENSORS



Retroreflective units feature sensing distance up to 10m. One-touch teach function (up to 2m, diffuse) minimizes set-up and changeover time. NPN/PNP switchable output. Light-ON/Dark-ON operation. 10-30VDC supply voltage. Mfg. part nos. E3G-R13 and E3G-R17 include reflector. For other types, order reflector separately below. Order mounting brackets separately below. CE compliant.



SENSORS

Mfg. Part No.	Description	Connection	Stock No.	Price Each
● E3G-R13	Polarized Retroreflective	Pre-leaded	19C6935	181.15
● E3G-R17	Polarized Retroreflective	Connector	19C6936	187.36
● E3G-L77	Diffuse Reflective	Connector	12C0754	205.97

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each
● E39-R1	100mm to 6m Reflector	27M2403	15.37
● E39-L131	Adjustable Side- or Rear-Mounting Bracket	19C6942	8.20

(59387)

AC/DC SUPPLY PHOTOELECTRIC SENSORS WITH TIMER MODULES



- Switch-Selectable Light-ON/Dark-ON Operation for Timer Models
- ON-Delay, Off-Delay, One-Shot, and ON-OFF Delay Modes
- Polarized Diffuse Retroreflective, and Thru-Beam Models
- NEMA 1, 4, 4X, 12 and IP 66
- Plug-In Replaceable Outputs
- SPDT Relay Output @ 3A, 250VAC; 3A 30VDC
- Supply Voltage: 24 to 240VAC, 50/60Hz; 12 to 240VDC
- Dimensions: 2.95H x 1.02W x 2.95"D (75 x 26 x 75mm)
- Adjustable Sensitivity and Mutual Interference Protection Included
- Operation Indicators, Mounting Brackets, 1/2" - 14 NPT Conduit Entry Included
- Optional Solid-State Outputs



Solid-state output modules series G3K and reflector adapter E39-L7 for stud-mounting E39-R1 reflector also available; go online or call. UL listed, CSA certified, CE compliant. For Omron's series E3A2-XC fiber-optic sensors on this page.

SENSORS

Mfg. Part No.	Sensing Method	Sensing Range	Detectable Object Type	With Timer	Stock No.	Price Each
● E3A2-10M4T	Thru-Beam	32.8' (10m)	Opaque Materials, 1.02" (26mm) Min. Dim.	Y	27M2380	360.82
● E3A2DS70M4	Diffuse Reflective	27.6" (70cm)	Opaque and Translucent Materials	N	27M2381	212.59
● E3A2-DS70M4T	Diffuse Reflective	27.6" (70cm)	Opaque and Translucent Materials	Y	27M2374	250.44
● E3A2-R3M4	Retroreflective	9.8' (3m)	Opaque and Mirror Surface Materials, 2.20" (56mm) Min. Dim.	N	90B3567	250.44
● E3A2-R3M4D	Retroreflective	9.8' (3m)	Opaque and Mirror Surface Materials, 2.20" (56mm) Min. Dim.	Y	27M2375	298.50
● E3A2-R3M4T	Retroreflective	9.8' (3m)	Opaque and Mirror Surface Materials, 2.20" (56mm) Min. Dim.	Y	27M2376	294.13

➤ CONTINUED ➤

AC/DC SUPPLY PHOTOELECTRIC SENSORS WITH TIMER MODULES (CONT.)

REPLACEMENT PARTS

Mfg. Part No.	Description	Stock No.	Price Each
● G6C-2117P-US-DC8	Relay Output Module, SPDT, 3A at 250VAC (Output Supplied with Each Sensor)	34K3624	5.92
● E39-R1	Reflector (Supplied with Retroreflective Sensors)	27M2403	15.37

(3542)

AC/DC FIBER-OPTIC AMPLIFIER WITH RELAY OUTPUT



- Slim Amplifier with Plug-in Outputs
- Standard 3A, 250VAC; 3A, 30VDC Relay Output
- Built-in Time Delays
- Universal Supply Voltage for AC/DC Operation
- Solid-State Output Available
- Light-ON/Dark-ON Operation, Switch Selectable
- 24 to 240VAC, 50/60Hz; 12 to 240VDC
- Power Consumption: 1.5W
- Light Source: Pulse-Modulated Red LED
- Adjustable Sensitivity
- SPDT Contact Configuration
- 15ms Response Time
- NEMA 1, 4, 4X, 12, IP66

Uses E-32 series fiber-optic cables. Solid state output modules series G6K also available; go online or call. UL listed, CSA certified.



AMPLIFIERS

Mfg. Part No.	Sensing Range	Timer Function	Indicators	Stock No.	Price Each
● E3A2-XCM4	...	No Timer Included	Light Incident (Red LED), Output Stability (Green LED)	27M2377	221.59
● E3A2-XCM4D	0.1 to 5 sec.	Independently Adjustable On-Delay (0.1 to 5 sec.)	Light Incident (Red LED), Output Stability (Green LED), Output Operation (Yellow LED)	27M2378	258.73
● E3A2-XCM4T	0.1 to 5 sec.	On-Delay, Off-Delay, One-Shot or Equal On-Delay and Off-Delay (0.1 to 5 sec.)	Light Incident (Red LED), Output Stability (Green LED), Output Operation (Yellow LED)	27M2379	258.73

REPLACEMENT PARTS

Mfg. Part No.	Description	Stock No.	Price Each
● G6C-2117P-US-DC8	Relay Output Module, SPDT, 3A @ 250VAC (Supplied w/Each Sensor)	34K3624	5.92

(73539)

LONG-RANGE PHOTOELECTRIC SENSORS WITH PLUG-IN BASE



- Universal AC/DC Supply Voltage
- Sensing Head Replaceable Without Rewiring
- Built-in ON- and OFF-Delay Timers Available
- Switch Selectable Light-ON and Dark-ON Operation
- Mutual Interference Protection
- Ready-to-Use: Includes 3A Relay, Mounting Bracket and Reflector
- Power consumption: 2VA (AC), 1.5W (DC)
- Supply Voltage: 24 to 240VAC, 50/60Hz; 12 to 240VDC
- SPDT Contacts
- Min. Load: 10mA, 5VDC
- NEMA 1, 3, 4, 12, 13, IP66



Replacement mounting bracket mfg. part no. E39-L35 also available; go online or call. Dimensions: 90.3H x 73W x 36mm (3.56 x 2.87 x 1.42"). UL listed, CSA certified.

SENSORS

Mfg. Part No.	Sensing Method	Sensing Range	Detectable Object Type	Stock No.	Price Each
● E3B2-D2M4-US	Diffuse Reflective	9.84' (3m)	Opaque and Transparent	27M2382	268.12
● E3B2-R5M4D-US*	Retroreflective	16.40' (5m)	Shiny and Opaque, 3.15" (80mm) Min. Distance	27M2384	299.30
● E3B2-R5M4-US	Retroreflective	16.40' (5m)	Shiny and Opaque, 3.15" (80mm) Min. Distance	27M2383	285.58
● E3B2-R7M4-US	Retroreflective	22.97' (7m)	Opaque, 3.15" (80mm) Min. Distance	27M2385	285.58

*With timer (0.5-20 Seconds)

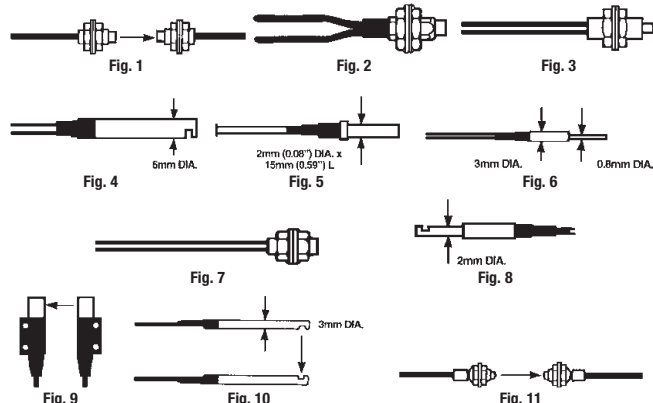
REPLACEMENT PARTS

Mfg. Part No.	Description	Stock No.	Price Each
● E39-R2	Reflector (Supplied w/Retroreflective Sensors)	38B246	20.45

(73558)

SENSORS – PHOTOELECTRIC

E32 SERIES FIBER-OPTIC CABLE SETS



- Extensive Selection of Fiber-Optic Sensing Heads Offers Many Unique Solutions for Tough Problems
- Fiber-Optic Sensors Detect Small, Fast-Moving Objects in Space-Confined Installations and Harsh Environments
- For a Customer Fit in the Field, Most Plastic Filament Cables Can Be Cut to Length
- For Detection in Hard-to-Reach Places, sensing heads With Bendable Stainless Steel Tubing Retain Complex Shapes
- Coiled and Ultra-Flexible Cables - Ideal for Flexing and Reciprocating Machinery Such as Robots
- Side-View Sensing Heads or Accessories Save Space in Right-Angle Detection
- Convergent Beam Sensing Heads Allow Accurate Positioning and Background Suppression Even for Shiny Objects
- Narrow Detection Zone of Concentric Beam Sensing Heads Help Eliminate Background Object and Gives Consistent Sensing, Regardless of Object Direction
- High Flexible Fibers With Minimum 1mm Bending Radius Allows Cable to Conform to Machine Contours
- Most Fiber Cables Offer IP67 Protection
- Temperature Range: -40°C to 70°C (-40°F to 158°F)

Fiber-optic photoelectric sensor cables are provided as a complete set. Cable length: 2M. Sensing distance and object detection are typical when used with a general purpose amplifier. Most cable can be cut to fit. **Sold as a package of 2 cables.**

Mfg. Part No.	Fig.	Configuration	Sensing Distance (cm)	Min. Object Detection (mm)	Stock No.	Price Each
● E32-TC200	1	Thru-Beam, General-Purpose	12	0.2	52F4370	65.55
● E32-DC200	2	Diffuse General Purpose	7.5	0.015	52F4379	67.47
● E32-CC200	3	Diffuse, M6 Threaded Head	7.5	0.03	52F9257	74.86
● E32-D61	3	Diffuse, M6 Compact Threaded Head, High Temperature	4.5	0.03	92F635	298.18
● E32-D11L	3	Diffuse, M6 Compact Threaded Head	10	0.015	50B6316	90.62
● E32-D14L	4	Diffuse, Side Beam	4	0.03	88F1351	156.81
● E32-D32	5	Diffuse	2	0.03	19C7909	97.99
● E32-D33	6	Diffuse, Probe Type	5	0.015	50B6317	104.41
● E32-DC200E	7	Diffuse M3 Threaded	1.8	0.03	27M2399	84.29
● E32-D24	8	Diffuse, Side Beam	1.5	0.03	83F1998	143.95
● E32-T14	9	Thru-Beam	90	1	27M2401	127.88
● E32-T14L	10	Thru-Beam	90	1	27M2402	112.46
● E32-TC200A	11	Thru-Beam	12	0.2	27M2400	69.42
● E32-T11R	11	Thru-Beam M4 x 14mm (0.55")	14	0.2	88K1926	132.38

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each
● E39-F1	Focusing Lens Pair	88K1927	49.04

(69341)

FIBER-OPTIC PHOTOELECTRIC SENSORS



Omron fiber-optic sensor amplifier units come prewired with a 2m cable. DIN rail mountable. E32 series fiber-optic sensing cables ordered separately on this page.

E3X-A SERIES GENERAL-PURPOSE

High performance with quick response time and self-diagnostics. 8 turn sensitivity adjustment with position indicator. IP66 enclosure rating.

Mfg. Part No.	Output Configuration	Additional Functionality	Stock No.	Price Each
● E3X-NA11	NPN LO/DO	...	92C2195	215.97
E3X-A21	NPN LO/DO	Off-Delay, Alarm, Check Input	90B3806	176.64
● E3X-NA41	PNP LO/DO	...	74C1459	172.49

E3X-NT/M SERIES EXTENDED RANGE, AUTOTUNING

Sensing distance is up to 100% greater than standard amplifiers. Pushbutton sensitivity adjustment. IP50 enclosure rating. Supply voltage: 12-24VDC.

➤ CONTINUED ➤

FIBER-OPTIC PHOTOELECTRIC SENSORS (CONT.)

Mfg. Part No.	Output Configuration	Additional Functionality	Stock No.	Price Each
E3X-NT11	NPN LO/DO	...	52F4374	175.91
● E3X-NM11	NPN LO/DO	4 Separate Channels, Off-Delay Timer, Remote Teach Input	52F4372	454.26

E3X-DA SERIES WITH DIGITAL DISPLAY

High performance amplifier with 3 user selectable sensing modes; standard, long distance, and high speed. Display is user-selectable for digital level, percentage or analog. Teach or manual sensitivity adjustment. Adjustment off-delay. IP50 enclosure rating. Supply voltage: 12-24VDC.

Mfg. Part No.	Output Configuration	Additional Functionality	Stock No.	Price Each
● E3X-DA11-N	NPN LO/DO	...	18M7320	182.68
● E3X-DA41-N	PNP LO/DO	...	19C7907	182.68
● E3X-DA21-N	NPN LO/DO	Second Output Analog 1-5VDC	19C7906	246.46
● E3X-DA51-N	PNP LO/DO	Second Output Analog 1-5VDC	19C7908	228.08

E3X-NH SERIES HIGH PRECISION, EXTENDED RANGE

Employs industry's first 16-bit processor. Automatic sensitivity adjustment feature allows stable detection in frequency changing environments. 3 teach modes, pushbutton sensitivity adjustment plus manual fine tune feature. Second alarm output on all models. IP50 enclosure rating. Supply voltage: 12-24VDC.

Mfg. Part No.	Output Configuration	Additional Functionality	Stock No.	Price Each
E3X-NH11	NPN LO/DO	...	88F3091	208.20
E3X-NH41	PNP LO/DO	...	12C0957	208.20

E3X-DA-S SERIES POWER TUNING, DIGITAL DISPLAY

Power tuning function addresses saturation, insufficient light and sensor variation. Dual display allows simultaneous viewing of current and preset values. 4-element LED and auto power control. 2 independent outputs for area detection, remote input function, counter function. Supply voltage: 12-24VDC.

Mfg. Part No.	Description	Output Configuration	Stock No.	Price Each
● E3XDA11S	Standard Model, pre-wired cable, red LED	NPN LO/DO	97H5080	249.26
● E3XDAB11S	Mark-detecting, pre-wired cable, blue LED	NPN LO/DO	18M7321	293.24
● E3XDAB6S	Standard Model, connector, blue LED	NPN LO/DO	18M7322	285.90
● E3XDAG11S	Mark-detecting, pre-wired cable, green LED	NPN LO/DO	66J7236	285.90
● E3XDAG6S	Mark-detecting, connector, green LED	NPN LO/DO	18M7323	285.90

E3X-MDA SERIES DUAL FIBER SENSORS

New dimension 2-channel amplifiers feature extremely narrow 5mm per channel profile. AND/OR control out put. Flexible control from the mobile console. Supply voltage: 12-24VDC.

Mfg. Part No.	Description	Output Configuration	Stock No.	Price Each
● E3XMDA11	2 Channel FOA, NPN, prewired cable	NPN LO/DO	66J7276	395.87
● E3XMDA41	2 Channel FOA, PNP, prewired cable	PNP LO/DO	18M7324	395.87
● E3X-MDA6	2 Channel FOA, NPN, connector	NPN LO/DO	21J6534	395.87
● E3XMDA8	2 Channel FOA, PNP, connector	PNP LO/DO	66J7278	395.87
● E3XCN11	Master connector for E3X-MDA11 & E3X-MDA41	...	66J7223	24.61
● E3XCN12	Slave connector for E3X-MDA11 & E3X-MDA41	...	66J7224	21.59
● E3XCN21	Master connector for E3X-MDA6 & E3X-MDA8	...	66J7225	28.07
● E3XCN22	Slave connector for E3X-MDA6 & E3X-MDA8	...	66J7227	24.61

E3XNA SERIES MANUAL FIBER AMPLIFIER

Adjuster type standard for true ease and simplicity. Supply voltage: 12-24VDC.

Mfg. Part No.	Description	Output Configuration	Stock No.	Price Each
● E3X-NA11	Standard Model, pre-wired cable, red LED	NPN LO/DO	92C2195	215.97
● E3XNA11F2M	High-speed Detection Model, pre-wired cable, red LED	PNP LO/DO	27M2397	296.75
● E3X-NA11	High-speed Detection Model, pre-wired cable, red LED	NPN LO/DO	92C2195	215.97
● E3XNA11F2M	High-speed Detection Model, pre-wired cable, red LED	PNP LO/DO	66J7284	296.75
● E3XNA6	Standard Model, connector, red LED	NPN LO/DO	27M2398	215.97
● E3XNA8	Standard Model, connector, red LED	PNP LO/DO	66J7288	215.97
● E3XNAG11	Mark-detecting, pre-wired cable, green LED	NPN LO/DO	66J7279	243.94
● E3XNAG41	Mark-detecting, pre-wired cable, green LED	PNP LO/DO	66J7280	243.94

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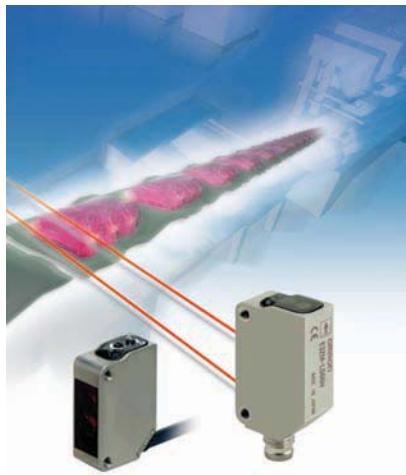
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SENSORS – PHOTOELECTRIC • SENSORS – POSITION & ENCODING

E3ZM STAINLESS STEEL PHOTOELECTRIC SENSORS



- SUS316L stainless steel casing
- Meets IP69K standards (1450psi washdown)
- Smooth shape allows easier cleansing: few seams and laser marked labels eliminate contamination
- Superior chemical resistance
- Response time: 1ms max.
- Load rating: 100mA at 30VDC max.



Reduce replacement costs where sensors fail frequently due to high-pressure chemical washdown. Used in cutting, weighing and packaging machinery for meat, poultry and fish processing. Voltage range: 12-30VDC. Current consumption: 25mA max. (reflective); 20mA (through-beam). Connection: 2m cable. Dimensions (mm): 32.2H x 10.8W x 21D. Reflectors for **E3ZM-R** series ordered separately below. Distance settable sensors available; go online or call Newark.

STAINLESS STEEL PHOTOELECTRIC SENSORS

Mfg. Part No.	Sensing Method	Sensing Distance (m)	Output Type	Stock No.	Price Each
● E3ZM-T61 2M	Through-Beam	15	NPN	22M3779	393.85
● E3ZM-R61 2M	Retroreflective	Up To 4*	NPN	22M3778	245.36
● E3ZM-D62 2M	Diffuse	1	NPN	04M4848	232.44

*Reflector type determines ultimate sensing distance. See table below.

REFLECTORS FOR E3ZM-R SENSORS

Mfg. Part No.	Application	Sensing Distance (m)	Dimensions (mm)	Stock No.	Price Each
● E39-R1S	Polarized Light Source	0.1 to 4	59.9H x 40.3W x 7.5D	78H1777	20.75
● E39R1K	Fog Preventive Coating	0.1 to 3	59.9H x 40.3W x 7.5D	66J7559	39.72

(89796)

ML7 SERIES MINIATURE PHOTOELECTRIC SENSORS



- IP69K rated for high-pressure washdown
- Ecolab certified
- Automatic cross talk protection for all diffused and retro-reflective models
- 5 sensing modes
- 2 lens positions
- High ambient light immunity
- 10-30 VDC; 100 mA max.
- Temperature range: -4°F to +140°F
- Some models with 4-in-1 output (NPN, PNP, L.O./D.O. modes)



THRU BEAM MODE – SENSING RANGE 0-3.5M

Mfg. Part No.	Model	Directional Mounting	Output	Stock No.	Price Each
● M776A/115	Transmitter	Vertical	...	43J1303	119.31
● M7759/102/115	Receiver	Vertical	PNP	43J1299	158.67
● M7176A/115	Transmitter	Horizontal	...	43J1304	119.31
● M7159/102/115	Receiver	Horizontal	NPN	43J1301	158.67
● M7159/82B/103/115	Receiver	Horizontal	PNP	43J1302	166.05

DIFFUSED MODE – LIGHT ON OPERATING MODE

Mfg. Part No.	Sensing Range (mm)	Directional Mounting	Output	Stock No.	Price Each
● ML7-8-200/25/102/115	20-200	Vertical	NPN	08J9159	141.52
● ML7-8-200/25/103/115	20-200	Vertical	PNP	08J9161	141.52
● ML71-8-200/25/102/115	20-200	Horizontal	NPN	02J5405	141.52
● ML71-8-200/25/103/115	20-200	Horizontal	PNP	08J9181	141.52

RETRO-REFLECTIVE MODE – SENSING RANGE 0-2.5M

Mfg. Part No.	Reflector Distance	Directional Mounting	Output	Stock No.	Price Each
● ML7-55/59/102/115	30mm-2.5m	Vertical	PNP	08J9140	147.27
● ML7-55/59/103/115	30mm-2.5m	Vertical	PNP	08J9144	147.27
● ML71-55/59/102/115	30mm-2.5m	Horizontal	NPN	08J9164	147.27
● ML71-55/59/103/115	30mm-2.5m	Horizontal	PNP	08J9168	147.27

➔ CONTINUED ➔

ML7 SERIES MINIATURE PHOTOELECTRIC SENSORS (CONT.)

RETRO-REFLECTIVE MODE – SENSING RANGE 0-2.5M

Mfg. Part No.	Model	Directional Mounting	Output	Stock No.	Price Each
● ML71-6/59/102/115	20mm-2.5m	Horizontal	NPN	08J9172	135.76
● ML71-6/59/103/115	20mm-2.5m	Horizontal	PNP	08J9176	135.76

DIFFUSE MODE WITH BACKGROUND SUPPRESSION

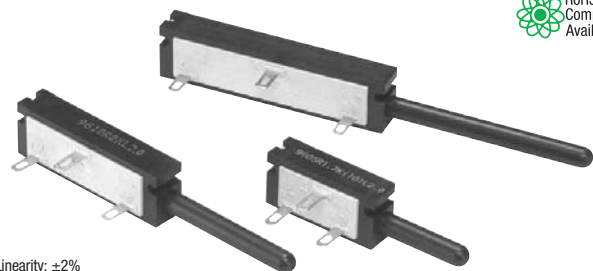
ML7-8-H-140-RT/59/65A/115/136	5-350mm	Vertical	4-in-1	70K3483	173.73
ML7-8-H-350-IR/59/65A/136/143	4-140mm	Vertical	4-in-1	69M3884	204.79

RETRO-REFLECTIVE FOR CLEAR OBJECT DETECTION MODE

● ML7-54-G/25/136/115	0-3.5m	Vertical	4-in-1	69M3880	182.04
● ML7-54-G/25/136/143	0-3.5m	Vertical	4-in-1	69M3882	182.04

* Denotes electrical connection of quick-disconnect type V31. (83019)

MODEL 9600 MINIATURE SPRING RETURN LINEAR MOTION POSITION SENSORS



- Linearity: $\pm 2\%$
- Actuation Force: 14.4 (4.0) Newtons max.
- Temperature Range: -40°C to +135°C
- Mechanical Life: 2,000,000 Full Cycles; 5,000,000 Dither Cycles
- Spring return design allows for interface-free installation.

9600 series spring return linear motion position sensors are ideal for a variety of applications requiring a highly miniaturized solution. Plastic housing and shaft. Plated brass eyelet style terminals. 4.8mm diameter shaft. Supplied with internal spring to return actuator to extended position. Ideally suited for use with microprocessor-based systems including joystick controls, robotics and industrial automation and controls.

Mfg. Part No.	Electrical Travel (mm)	Active Electrical Travel (mm)	Mechanical Travel (mm)	Power Rating at 70°C (Watts)
● 9605R1.7KL2.0	12.7	10.0	14.2	0.25
● 9610R3.4KL2.0	25.4	22.8	26.9	0.5
● 9615R5.1KL2.0	38.1	35.6	39.6	0.75

Mfg. Part No.	Resistance Ohms $\pm 25\%$	Length (mm)	Terminal Spacing (mm)	Stock No.	Price Each
● 9605R1.7KL2.0	1.7 K	26.9	0.300	86H6854	76.21 37.58 29.37
● 9610R3.4KL2.0	3.4 K	39.6	12.7	86H6855	76.21 37.58 29.37
● 9615R5.1KL2.0	5.1 K	52.3	20.3	86H6856	76.21 37.58 29.37

(77683)

ANGULAR POSITION SENSOR

Just Added



- Patented non-contact angular position sensor
- Magnet/sensor orientation provides intrinsically linear output over 120° maximum travel without electrical compensation
- Fully encapsulated electronics to IEC 529 IP67
- Input voltage: 5V
- Input current: 10mA
- Output current: 25mA max
- Resolution: Analog



Mfg. Part No.	Output Linearity	Rotational Sensing Range	Stock No.	Price Each
● AN101101	± 1.5	120° CCW	05M6309	24.84

(147140)



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(148833)

SENSORS – POSITION & ENCODING

SOLID-STATE
SPEED SENSORS

Just Added

CHERRY

- Senses motion of ferrous gear tooth targets
- Capable of operating up to 150#Undertag-786#C
- Mating connector Delphi 12162280
- Applications: Wheel speed, transmission speed, anti-lock braking systems



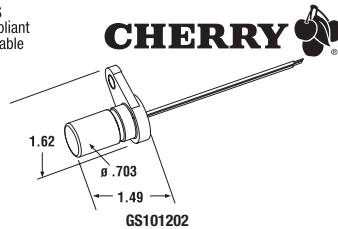
Mfg. Part No.	Description	Supply Voltage	Operating Temp. Range	Stock No.	Price Each
GS101205	Flange Mount Gear Tooth Sensor	5.0 – 30VDC	-40° - 150°C	34P4220	28.15
GS101201	Flange Mount Speed Sensor	5.0 – 24VDC	-40° - 125°C	23C6622	23.63

(147270)

SOLID-STATE
SPEED SENSORSRoHS
Compliant
Available

CHERRY

- Hall-Effect Technology with High Speed and Near-Zero Speed Capabilities
- Sense Rotation of Ferrous Target Such as Gearwheel, Sprocket or Chain
- Digital Sinking Output
- Maximum Supply Current: 6mA except Type SD100203: 17mA



Mfg. part no. SD100203 provides two separate digital outputs for speed and direction. All except mfg. part no. GS100701 provide additional circuit protection for immunity against electrical interference. Mfg. part no. SD100203 includes 6" 20AWG leads. Mfg. part no. GS100101 meets all IEC requirements for heavy industrial environments.

INDUSTRIAL-GRADE

Mfg. Part No.	Description	Supply Voltage	Operating Temp. Range	Stock No.	Price Each
GS100101	M12-1 Stainless Steel Barrel	4.5 - 24VDC	-40° - 105°C	05M6387	51.14

COMMERCIAL-GRADE

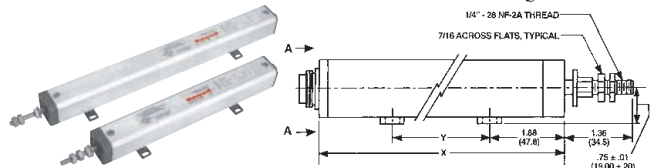
GS100502	M12-1 Stainless Steel Barrel	4.5 - 24VDC	-40° - 125°C	05M6388	27.82
GS100701	1 1/2" Aluminum Barrel	4.5 - 24VDC	-40° - 125°C	95B6032	27.82
SD100203	M18-1 Speed and Direction Sensor	4.75 - 24VDC	-40° - 85°C	51M9021	52.64

(69350)

LF2 SERIES LINEAR
POSITION TRANSDUCERSRoHS
Compliant
Available

Honeywell

Sensing and Control



The LF2 series provide greater resistance to vibration. Feature stainless steel shafts, Mystr® plastic elements, longer front-end bearings, a vibration-free damped element, spring-loaded ball joints, and a high-precision metal wiper. Vibration: 20g rms/0.75mm 5-2Hz. Total resistance: 5K Ohms. 0.1% independent linearity. Infinite resolution. Life: 1 billion operations. Backlash: .001". Operating temperature: -65°C to 105°C (-85°F to 221°F).

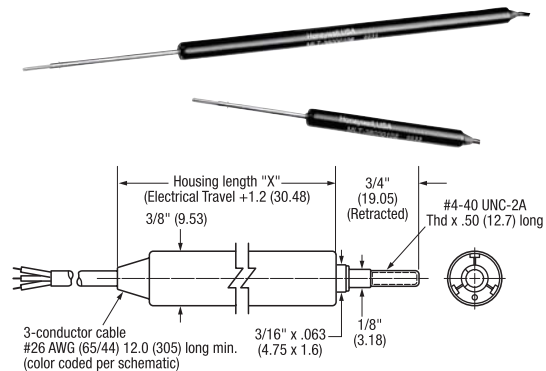
Mfg. Part No.	Electrical Travel (Nominal)	Dimensions "X" (in.)	Dimensions "Y" (in.)	Mechanical Travel in.	mm	Stock No.	Price 1-14
LF2S09N5KB6A	9"	12.19	310	9.10	231	19C7113	425.81
LF2S14N5KB6A	14"	17.19	437	14.10	358	19C7115	512.48
LF2S18N5KB6A	18"	21.19	538	18.12	460	10M8428	542.17

(60986)

Expert
technical
support

Chat online to our team of engineers, or connect to them through your representative.

(148838)

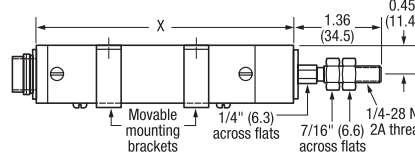
MLT SERIES LINEAR
POSITION TRANSDUCERSRoHS
Compliant
AvailableHoneywell
Sensing and Control

- Anodized Extruded Aluminum Housing
- 0.375" Diameter
- Stainless Steel Shaft
- Absolute Continuous Measurement
- 4-40 Thread Shaft
- Operating Temperature: -40°C to +80°C (-40°F to +176°F)

Rugged enough to withstand the hostile environment of the factory, the MLT series linear position transducers are small in diameter. By using a proprietary dual wiper, internal ball joint and the Mystr® conductive plastic film, the MLT series transducers provide usable output at high vibration levels for long periods of time. The use of precious metal wipers further enhances reliability. V max = 30V, I max = 100mA, Ci = 0, µF, Li = 0 mH. Intrinsically safe for Class I, II and III Division 1, Groups A, B, C, D, E, F, and G for Hazardous (indoor/outdoor) NEMA 4 locations.

Mfg. Part No.	Electrical Travel (in.)	Res. (Ohms)	Linearity (%)	Housing Length "X" (in.)	Wt. (g)	Stock No.	Price Each
MLTOR5N0750F5C	0.5	750	1	1.7	11	49H7056	255.44
MLT002N3000B5C	2	3000	0.1	3.2	20	07H4154	294.54
MLT004N6000B5C	4	6000	0.1	5.2	28	81H2504	296.22
MLT006N9000B5C	6	9000	0.1	7.2	31	10M8431	301.26

(77660)

SLF SERIES LINEAR
POSITION TRANSDUCERSRoHS
Compliant
AvailableHoneywell
Sensing and Control

- 0.081" Thick Housing with 0.25" Shaft
- 1/4 -28 Thread Shaft
- Operating Temperature: -65° to +105°C

SLF series transducers are frequently used for measuring linear position or displacement up to 6" on a wide variety of manufacturing and process equipment. The mechanical design of the unit's front and rear bearings, anodized extruded aluminum housing, stainless steel shaft and precious metal wipers are suitable for a factory's harsh environment. Based on the proprietary Mystr® conductive plastic film, it provides a high resolution, absolute position measurement without external signal conditioners. V max = 30V, I max = 100mA, Ci = 0, µF, Li = 0 mH. Intrinsically Safe for Class I, II, and III Division 1, Groups A, B, C, D, E, F, and G for Hazardous (indoor/outdoor) NEMA 4 locations.

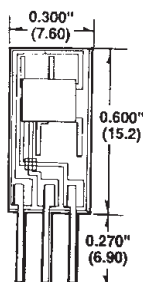
Mfg. Part No.	Electrical Travel (in.)	Res. (Ohms)	Mechanical Travel (in.)	Linearity (%)	Housing Length "X" (in.)	Stock No.	Price Each
SLF01N1500F6A	1	1500	1.2	1	4.05	67H4215	306.70
SLF01N1500B6A	1	1500	1.2	0.1	4.05	81H2506	314.25
SLF02N3000F6A	2	3000	2.2	1	5.05	10M5261	315.59
SLF02N3000B6A	2	3000	2.2	0.1	5.05	81H2507	382.57
SLF04N6000F6A	4	6000	4.15	1	6.95	10M8451	339.34
SLF04N6000B6A	4	6000	4.15	0.1	6.95	03H3356	405.15
SLF06N9000F6A	6	9000	6.15	1	8.95	94C2857	348.25
SLF06N9000B6A	6	9000	6.15	0.1	8.95	06H0953	406.03

(77664)

SENSORS – POSITION & ENCODING

91SS SERIES LINEAR HALL-EFFECT TRANSDUCER

Linear output transducer operates by magnetic field. Thin ceramic package. Supply voltage: 8-16VDC. Supply current: 19mA. Sensitivity at 12VDC: 7.5mV/gauss at 25°C. Gauss range: -400 to +400. 1.5% linearity.



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Sensing and Control



Mfg. Part No.	Stock No.	Price Each			
		1-49	50-99	100-249	250-499
● 91SS12-2	05M3033	12.99	11.82	11.01	10.37

(5088)

103SR AND SR4 SERIES HALL-EFFECT SENSORS



Honeywell
Sensing and Control



Adjustable mounting, threaded aluminum housing contains Hall-effect sensor operated by proximity to external magnet. Sealed housing meets NEMA enclosure types 3, 3R, 3S, 4, 4X, 12, and 13. 24-gauge, 6" stranded, color-coded lead wires at termination. Mfg. part nos. with "2" suffix are supplied with one meter, 22AWG, PVC jacketed cable. **Mfg. part nos. 103SR13** are digital current sinking output. **Mfg. part nos. 103SR11** and **103SR12** are current sourcing. Magnetics type for **mfg. part nos. 103SR**: unipolar. Dimensions: 1 1/2"-3 1/2" x 1 1/4". Operating temperature range: -40°C to +100°C. Magnets available on page 1857.

Mfg. Part No.	Supply Voltage	Supply Current	Voltage Output	Stock No.	Price Each
					1-14
● 103SR11A-1	4.5-5.5VDC	4mA	Vs-1.5VDC	23F2233	28.95
● 103SR12A-1	6-24VDC	10.0mA	Vs-1.5VDC	05M2281	27.18
● 103SR12A-2	6-24VDC	10.0mA	Vs-1.5VDC	05M2282	30.16
● 103SR13A-1	4.5-24VDC	10.0mA	0.4VDC	14M6607	25.62
● 103SR13A-2	4.5-24VDC	10.0mA	0.4VDC	50F5281	31.54

(3486)

GT SERIES HALL-EFFECT GEAR-TOOTH SENSOR



Honeywell
Sensing and Control

- EMI Resistant
- Fast Operating Speed: Over 100kHz

Mfg. part no. 1GT101DC gear-tooth sensor uses a magnetically-biased, Hall-effect integrated circuit to accurately sense movement of ferrous metal targets. Units will function from a 4.5 to 24VDC power supply and have reverse polarity protection. Current sinking output. Dimensions: 0.70W x 1.43"D.



Mfg. Part No.	Stock No.	Price Each			
		1-49	50-99	100-499	500+
● 1GT101DC	92F3009	25.68	21.72	19.23	17.31

(3457)

BIPOLAR LATCH HALL-EFFECT MAGNETIC POSITION SENSORS

Just Added

Honeywell

SOT-23



TO-92

Features:

- Enhanced sensitivity
- Miniature package size
- Low power consumption: 3 V operation

Application:

- Speed and RPM sensing
- Motor and fan control
- Convertible roof position
- Automotive transmission position

Industrial:

- Flow-rate sensing
- Robotics control

Medical:

- Medication dispense control

Specifications:

- Operating temperature: -40 to 150°C
- Supply current: 6mA max.

Mfg. Part No.	Supply Voltage	Package	Stock No.	Price Each
				1-9
SS361RT	3 to 12 V	SOT-23	11R0676	1.26
SS461R	3 to 18 V	TO-92	11R0677	1.18

(148726)

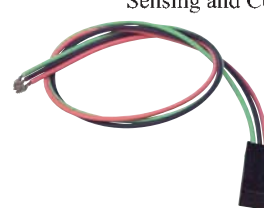
SR13/SR15 SERIES HALL-EFFECT POSITION SENSORS



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SR13C-A1



SR15C-A3

- Snap-In or Flat Mount Packages
- Digital Output (Current Sinking)
- Operating Temperature: -40°C to +150°C

- Temperature Compensated Magnetics
- 24 AWG Radox Wire Leads

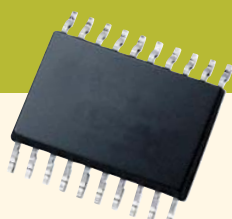
SR13 and **SR15** series position sensors are not susceptible to common occurrences of humidity, vibration or dust contamination yet provide easy installation. Devices can be installed without additional hardware, using the pre-leaded snap-in or flat-pack housings. Sensors utilize time-proven **SS400** series position sensors, which have a thermally balanced integrated Hall-effect circuit providing predictable performance over a wide operating temperature range. Snap-in mount feature accepts a panel thickness up to 0.135". Supply voltage: 3.8-30VDC. Supply current: 13mA. Output voltage: 400mV. Sinking current: 20mA continuous, 50mA cycled. Dimensions: 0.80L x 0.30W x 0.20"D. Magnets available on page 1857.

SPECIFICATIONS

Mfg. Part No.	Magnetics	Gauss Level @ 25°C		
		Max. OP	Min. RL	Min. DIF
● SR13C-A1	Unipolar Latching	180	75	25
● SR13R-A1		85	-85	50

Mfg. Part No.	Lead Length	Mounting Style	Stock No.	Price Each			
				1-24	25-49	50-99	100-249
● SR13C-A1	6.0"	Snap-in	05M1292	5.57	5.30	5.01	4.74
● SR13R-A1	6.0"	Snap-in	95B0184	6.91	5.97	5.41	4.76
● SR15C-A3	10.0"	Flat Pack	05M1293	3.89	3.36	3.05	2.68

(51471)



(148846)

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SENSORS – POSITION & ENCODING

4AV SERIES HALL-EFFECT VANE SENSORS

Vane-operated sensors feature dual digital current sinking outputs and closely controlled differential to predict pulse width. Sensors also offer transient protection. **Mfg. part no. 4AV16** has 24AWG XLPE 7.45" (189.2mm) lead wires; **mfg. part no. 4AV18** has 24AWG XLPE 18.15" (461mm) lead wires; **mfg. part no. 4AV20** is dual output and has 4-pin in-line PCB terminals. Operating temperature range: -40°C to +125°C. Dimensions: 0.43H x 0.52W x 0.75"D.



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Sensing and Control



Mfg. Part No.	Supply Voltage (VDC)	Supply Current (mA)	Output Voltage (VDC)	Termination	Stock No.	Price Each		
						1-24	25-49	50-99
● 4AV16F	4.5-24	18.5	0.4	7.45" Wire Lead	12M6713	28.22	26.79	25.37
● 4AV18F	4.5-24	18.5	0.4	18.15" Wire Lead	10M8485	25.61	21.11	19.09

(3480)

SS4/SS5 SERIES HALL-EFFECT SENSORS

- Operating speed: 0 to over 100kHz
- Supply voltage: 3.8-24VDC
- Output voltage: 0.4V max
- SOT89 package
- Built-in timing circuit



SS5

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Sensing and Control



Just Added

Digital position sensors have current sink output. Feature temperature compensation. **SS4 series** dimensions: 0.160 x 0.118" (4.06 x 3.00). **SS5 series** are SOT89 packages. **SS42R series** features digital dual complementary sink/source outputs. Operate/release points are trimmed for zero symmetry. Reverse voltage polarity protection for full supply range. Operate temp. range: -40 to +105°C. **SS421 series** feature an operate temp. range of -40 to +105°C. Bipolar operation for easy RPM counting using ring magnets. Built-in timing circuit greatly simplifies and reduces the cost of PC board design. Speed trip point adjustable with external resistor and capacitor. "L" version is active low, "H" version is active high.

MINIATURE DIGITAL SENSORS

Mfg. Part No.	Magnetics	Supply Current (mA)	Gauss Level @ 25°C			Stock No.	Price Each
			Max. OP	Min. RL	Min. DIF.		
● SS41	Bipolar	8.7	150	-140	50	73K1376	0.91
● SS40A	Bipolar	6.5	150	-110	90	71J7819	0.95
● SS411A	Bipolar	10	60	-60	15	73K4040	1.95
● SS443A	Unipolar	10	180	75	25	73K1377	2.06
● SS441A	Unipolar	10	115	20	20	93F6654	1.00
● SS461A	Latch	10	85	-85	50	93F9228	1.00
● SS466A	Latch	10	180	-180	200	73K4041	0.87

COMPLEMENTARY OUTPUT

● SS42R	Latch	11	185	-185	200	01J0382	0.96
● SS421L	Bipolar	15	250	-250	50	05M1363	2.69
● SS421H	Bipolar	15	250	-250	50	05M1362	2.68

SURFACE MOUNT DIGITAL SENSORS (SOT 89)

● SS541AT	Unipolar	10	115	20	20	86C1047	0.92
● SS543AT	Unipolar	10	180	75	25	72C8940	0.92
● SS549AT	Unipolar	10	390	235	30	86C1048	1.79

MINIATURE LINEAR SENSORS

Mfg. Part No.	Supply Voltage (VDC)	Supply Current (mA)	Sensitivity* MV/Gauss	Stock No.	Price Each
					1-49
● SS49	4-10	4	0.9	95F5207	1.48
● SS49E	3-6.5	6	1.4	09J1786	1.07
● SS59ET	3-6.5	6	1.4	81H1715	1.79
● SS495A	4.5-10.5	7	3.125 ± 0.125	73K4042	1.37
● SS495A1	4.5-10.5	7	3.125 ± 0.094	73K4043	3.42
● SS495A2	4.5-10.5	7	3.125 ± 0.156	73K1378	2.32
● SS496A1	4.5-10.5	7	2.50 ± 0.075	73K1379	1.75
● SS496A	4.5-10.5	7	2.50 ± 0.100	48F2831	2.76

*Nominal @ 5.0VDC supply
(5179)

SS2/2SS SERIES ULTRA-SENSITIVE MAGNETICALLY OPERATED SENSORS



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Sensing and Control



2SS52M



SS2

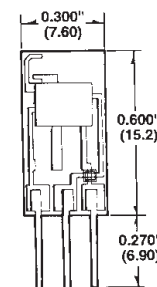
Feature magneto-resistive sensor with digital current sink output. Can be operated with either north or south magnetic pole. 3-pin, in-line PC board terminals on 0.100" (2.54) mounting centers except **mfg. part no. 2SS52M**, which is 0.050" (1.27). For **mfg. part nos. SS21** and **SS22** output voltage: 0.4V max. Typical OP @ 25°C: 15 gauss. Typical RL @ 25°C: 11 gauss. Typical differential @ 25°C: 4. Gauss 0.3" x 0.3" (7.62 x 7.62), with epoxy chip protection. **Mfg. part no. 2SS52M**: 0.18" x 0.18" (4.57 x 4.57) plastic package.

Mfg. Part No.	Operate Gauss	Supply Voltage	Supply Current	Stock No.	Price Each	
					1-49	50-99
● SS21PE	15	4.5-5.5VDC	10mA	05M1360	9.58	8.72
● SS22PE	15	6-24VDC	13.5mA	05M1361	9.56	8.71
● 2SS52M	15	3.8-30VDC	6mA	48F2833	2.56	2.43

(5178)

SS94A SERIES LINEAR HALL-EFFECT TRANSDUCERS

Operated by a magnetic field, the output voltage varies proportionally to the field strength. All sensors feature temperature compensation circuitry. **Mfg. part no. SS94A2** features silver back for improved noise immunity. Gauss range of -500 to +500 except **mfg. part no. SS94A1F** at -100 to +100. **Mfg. part no. SS94A1F** is high sensitivity.



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Sensing and Control



Mfg. Part No.	Supply VDC	Supply mA	MV/Gauss Output @ 25°C*	Linearity % of Span	Stock No.	Price Each	
						1-24	25-49
● SS94A1	6.6-12.6	30.0	5.000	1.5% max	05M1372	17.67	16.78
● SS94A1B	4.5-8.0	17.5	1.875		05M1373	17.16	15.62
● SS94A1F	6.6-12.6	30.0	25.000		05M1376	19.90	18.12
● SS94A2	6.6-12.6	30.0	5.000		50F5182	20.58	18.74

*Nominal at 8VDC supply except **SS94A1B** at 5VDC
(5087)

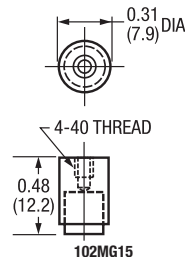
MG SERIES BAR MAGNETS

Just Added



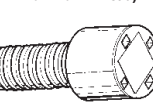
Honeywell

Sensing and Control



102MG15

103MG5



106 MG10 (1/4-20 Plastic Thread)



101 MG7

Bar magnets are ideal for sensors with unipolar magnetic characteristics. Gauss level given is @ 25°C. Other threaded bushing, bar, ring magnets, and ring magnets with alternate North and South poles for use with bipolar magnetic sensors are available; go online or call.

Mfg. Part No.	Dimensions		Gauss Level @		Stock No.	Price 1-24
	Length	Outside Diameter	0.050"	0.100"		
● 101MG7	0.25" (6.35)	0.25" (6.35)	755	480	23F2226	4.69
● 102MG11	0.67" (17.02)	0.31" (7.87)	755	480	23F2229	7.46
● 102MG11BP	0.67" (17.02)	0.31" (7.87)	755	470	39B4198	7.10
● 102MG15	0.48" (12.2)	0.31" (7.9)	755	480	23F2230	6.47
● 103MG5	0.04" (1.01)	0.078" (1.98)	225	100	23F2429	0.87
● 106MG10	0.93" (23.62)	0.40" (10.16)	1600	940	23F2237	9.71

(5177)

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SENSORS – PRESSURE

NPC1210 SERIES NOVASENSOR
MEDIUM/LOW PRESSURE SENSORS

Features:

- Temperature compensated: 32°F to 140°F (0°C to 60°C)
- PCB mountable package, DIP configuration, solid state reliability
- Cost effective solution for applications requiring calibrated performance over a wide temperature range

Specifications:

- Full scale output: 100mV
- Operating temperature: -40°F to 257°F (-40°C to 125°C)

LOW PRESSURE SENSORS

Mfg. Part No.	Pressure Range (in-H ₂ O)	Pressure Measuring Type	Configuration	Stock No.	Price Each
● NPC-1210-10WD-3L	10	Differential	Lead Down/Long Tube	46M2625	43.62
● NPC-1210-10WD-3S	10	Differential	Lead Down/Short Tube	46M2626	37.07

MEDIUM PRESSURE SENSORS

Mfg. Part No.	Pressure Range (psi)	Pressure Measuring Type	Configuration	Stock No.	Price Each
● NPC-1210-015D-3L	15	Differential	Lead Down/Long Tube	46M2620	23.67
● NPC-1210-015D-3S	15	Differential	Lead Down/Short Tube	46M2621	23.67
● NPC-1210-015G-3L	15	Gauge	Lead Down/Long Tube	46M2623	23.67
● NPC-1210-015G-3S	15	Gauge	Lead Down/Short Tube	46M2624	26.33
● NPC-1210-100D-3L	100	Differential	Lead Down/Long Tube	46M2627	23.67
● NPC-1210-100D-3S	100	Differential	Lead Down/Short Tube	46M2628	23.67
● NPC-1210-100G-3L	100	Gauge	Lead Down/Long Tube	46M2629	23.67
● NPC-1210-100G-3S	100	Gauge	Lead Down/Short Tube	46M2630	23.67

(94402)

NPP-301 SERIES
NOVASENSOR SURFACE
MOUNT PRESSURE SENSORS

Features:

- Ultra-small Silicon Fusion Bonded (SFB) SO-8 surface mount package
- Non-ported
- Wide operating temperature range: -40°F to 257°F (-40°C to 125°C)
- Four element Wheatstone bridge configuration for circuit design flexibility
- Wide range of applications, including pneumatic controls, altimeters and barometers, cable leak, detection, portable gauges

Specifications:

- 10VDC maximum input excitation
- Compatible with most non-corrosive gases and dry air

Mfg. Part No.	Pressure Range (psi)	Pressure Measuring Type	Stock No.	Price Each
● NPP-301A-100AT	0 to 15	Absolute	46M2631	20.52
● NPP-301A-200AT	0 to 30	Absolute	46M2632	25.18
● NPP-301A-700AT	0 to 100	Absolute	46M2633	20.52

(94401)

NPC-100 SERIES NOVASENSOR
DISPOSABLE MEDICAL SENSOR

Features:

- Specifically designed for use in disposable medical applications: instrumentation, blood pressure measurement, infusion pumps, kidney dialysis machines
- Solid state, high reliability
- Factory filled with dielectric gel
- Temperature compensated

Specifications:

- Calibrated for 6VDC input excitation
- Polycarbonate gel tube interface material
- Operating temperature: 59°F to 104°F
- Sold as cut tape and reel

Mfg. Part No.	Pressure Range (mmHg)	Stock No.	Price Each
NPC-100T	-30 to 300	46M2619	23.17

(94400)

GE
SensingDC SERIES ULTRA-LOW
PRESSURE SENSORS

Fig. 1

- Silicon Micromachined Sensing Element
- -25°C to +85°C Operating Temperature
- Material in Contact with Media: Silicon, Glass-Filled Nylon and Alumina Ceramic
- Zero- and Span-Calibrated, Temperature Compensated
- Port size: 0.19" barb

Sursense™ ultra-low pressure sensors incorporate a proprietary technology designed using 2 sensing elements to reduce output offset or common mode errors to ensure the highest possible accuracy. They feature thermal, offset and full-scale calibration, long-term stability and low sensitivity to position.

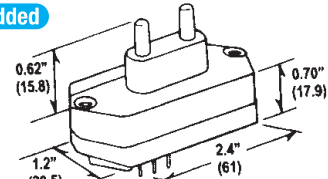
DC ULTRA-LOW PRESSURE WITH AMPLIFIED OUTPUT AND SURSENSE™ CALIBRATION

Mfg. Part No.	Pressure Range	Reference	Zero Output	Fig.	Stock No.	Price Each
● DC001NDC4	0-1" H ₂ O	Differential	2.25VDC	1	20M8049	119.93
● DC001NGC4	0-1" H ₂ O	Gage	0.25VDC	1	20M8051	116.80
● DC005NDC4	0-5" H ₂ O	Differential	2.25VDC	1	20M8054	109.26
● DC010NDC4	0-10" H ₂ O	Differential	2.25VDC	1	20M8055	108.33
● DC001NDR5	0-1" H ₂ O	Differential	3.5VDC	1	20M8050	127.73
● DC001NGR5	0-1" H ₂ O	Gage	1.0VDC	1	20M8052	126.85

*Regulated output (60930)

140PC AND 160PC SERIES
PRESSURE SENSORS

Just Added



140PC series sensors are for use in applications where high accuracy is desired. Supply current is 20mA max. Full-scale output: 5V. Shock specs meet MIL-STD-202, Method 213. Temperature range: -40°C to 85°C. 160PC series pressure sensors are for use in low-pressure measurement applications. Recommended supply voltage: 8VDC. Input current: 8mA. Differential styles have two ports that allow connection to two pressure sources, and differential style functions same as gage when Port 1 is left open to atmospheric pressure. Single port 142PC gauge types may be ordered by substituting a "G" for the suffix "D." Product to be used for service parts only. Not to be considered for new designs or applications.

Mfg. Part No.	Pressure Range	Measurement	Stock No.	Price Each
● 142PC01D	0-1 PSI	Differential	51F2590	103.21
● 142PC05D	0-5 PSI	Differential	20M8994	124.83
● 142PC15D	0-15 PSI	Differential	51F2591	172.07
● 142PC15A	0-15 PSI	Absolute	20M8995	150.35
● 142PC30D	0-30 PSI	Differential	20M8998	172.07
● 142PC30A	0-30 PSI	Absolute	20M8997	125.52
● 143PC03D	±3 PSI	Differential	51F2595	137.65
● 162PC01D	0 - 27.68 in H ₂ O	Differential	20M9454	293.06
● 163PC01D48	-20-120cm H ₂ O	Differential	20M9484	132.87
● 163PC01D36	-5-5" H ₂ O	Differential	20M9483	210.49
● 163PC01D75	-2.5-2.5" H ₂ O	Differential	20M9485	197.51
● 164PC01D76	0-5" H ₂ O	Differential	20M9499	210.49
● 164PC01D37	0-10" H ₂ O	Differential	20M9498	210.49

(5136)



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(148881)

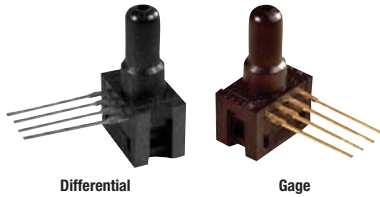
SENSORS – PRESSURE

24PC SERIES NON-TEMPERATURE COMPENSATED MINIATURE PRESSURE SENSORS

Just Added


Honeywell
Sensing and Control

- Differential and Gage Pressure Measurement
- Miniature Package
- Silicon Piezoresistive Sensor Chip
- Can be Used to Measure with Vacuum or Positive Pressure



Contain straight port, non-compensated circuitry and fluorosilicone seals. Operating temperature: -40°C to +85°C. 16mA constant excitation current significantly reduces sensitivity shift over temperature range. Recommended excitation voltage: 10VDC ratiometric (16VDC max). Dimensions: Differential: 1.35L x 0.50"W. Gage: 0.86L x 0.50"W. 4-pin SIP termination 0.600" leads. Sensors are available with threaded, barbed, luer, and needle pressure port options. Other seal materials for media compatibility are available. DIP termination option is available.

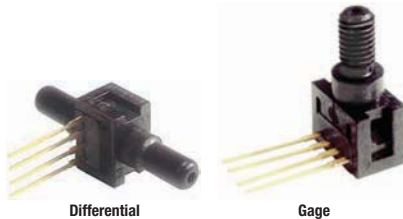
Mfg. Part No.	Pressure Range	Measure-ment	Full Scale Output	Sensitivity (mV/psi)	Stock No.	Price Each
● 24PCFA6D	0-1 psi	Differential	45mV	45	16F3194	21.08
● 24PCFA6G	0-1 psi	Gage/Vac	45mV	45	16F3193	20.55
● 24PCBFA6D	0-5 psi	Differential	115mV	23	16F3196	25.11
● 24PCBFA6G	0-5 psi	Gage/Vac	115mV	23	16F3195	19.78
● 24PCDFA6G	0-30 psi	Gage/Vac	330mV	11	16F3199	19.67
● 24PCFFA6G	0-100 psi	Gage/Vac	225mV	2.25	16F3201	22.22
● 24PCDFA6D	0-30 psi	Differential	115mV	11	93B6606	28.49
● 24PCFEA6D	0.5-20 psi	Diff./Gage/Vac	35mV	70	86C4627	44.80
● 24PCCFFA6G	0-15 psi	Gage/Vac	225mV	15	16F3197	20.25
● 24PCFFA6D	0-100 psi	Differential	212mV	2.25	99B1851	40.40
● 24PCGFA6D	0-250 psi	Differential	212mV	0.85	86C4632	40.40
● 24PCGFA6G	0-250 psi	Gage	212mV	0.85	93B0403	22.22

(5169)

26PC SERIES TEMPERATURE COMPENSATED PRESSURE SENSORS


Honeywell
Sensing and Control

- Differential and Gage Pressure Measurement
- Miniature Package
- Silicon Piezoresistive Sensor Chip
- Can be Used to Measure Vacuum or Positive Pressure
- Temperature Compensated for Interchangeability from 0°C to 50°C

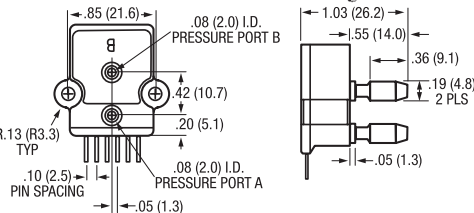


Contain straight port, compensated circuitry and fluorosilicone seals. Temperature compensated from 0°C to +58°C. Null and full-scale output are calibrated. .600" long 4-pin SIP termination. Operating temperature: -40°C to +85°C. Recommended excitation voltage: 10VDC ratiometric (16VDC max.). Sensors are available with threaded, barbed, luer, and needle pressure port options. Other seal materials for media compatibility are available. DIP termination option is available.

Mfg. Part No.	Pressure Range	Measurement	Full Scale Output	Sensitivity (mV/psi)	Stock No.	Price Each
● 26PCFA6D	0 - 1 psi	Differential	16.7mV	16.7	52F7256	30.04
● 26PCFA6G	0 - 1psi	Gage/Vac	16.7mV	16.7	52F7257	30.04
● 26PCBFA6D	0 - 5 psi	Differential	50mV	10.0	93B0356	30.36
● 26PCBFA6G	0 - 5 psi	Gage/Vac	50mV	10.0	39B7194	30.49
● 26PCCFFA6D	0 - 15 psi	Differential	100mV	6.67	16F3198	29.19
● 26PCCFFA6G	0 - 15 psi	Gage/Vac	100mV	6.67	16F3206	22.90
● 26PCDFA6D	0 - 30 psi	Differential	100mV	3.33	16F3209	37.27
● 26PCFFA6G	0 - 100 psi	Gage/Vac	100mV	1.0	16F3210	37.27

(5169)

ASCX SERIES SIGNAL CONDITIONED PRESSURE SENSORS


Honeywell
Sensing and Control


- Supply Voltage: +4.5 to 16VDC
- Response Time: 100msec

- Operating Temperature: -25°C to +105°C
- SIP Package

➔ CONTINUED ➔

ASCX SERIES SIGNAL CONDITIONED PRESSURE SENSORS (CONT.)

Provide a cost-effective solution for pressure applications that require high-accuracy over a wide temperature range. Feature an integrated circuit sensor element and laser-trimmed thick film ceramic housed in a compact nylon case. All devices are calibrated for span to within +/-% (typically +/-0.2%) of FSO. Requires very low quiescent current compared to other signal conditioned pressure sensors, making these devices best for battery powered applications. Also ideal for medical equipment, computer peripherals and pneumatic control applications due to their low noise and excellent temperature compensation.

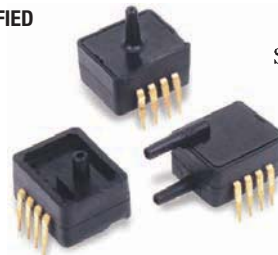
Mfg. Part No.	Pressure	Pressure Type	Sensitivity	Stock No.	Price Each
● ASCX01DN	0-1 Psi	Differential/Gage	4.5 V/psi	10M5131	78.39
● ASCX05DN	0-5 Psi	Differential/Gage	0.9 V/psi	10M5132	117.01
● ASCX15AN	0-15 Psi	Absolute	0.3 V/psi	10M5134	84.00
● ASCX15DN	0-15 Psi	Differential/Gage	0.3 V/psi	78H1323	102.53
● ASCX30DN	0-30 Psi	Differential/Gage	0.15 V/psi	10M5136	80.71
● ASCX100DN	0-100 Psi	Differential/Gage	45 mV/psi	10M9191	76.26
● ASCX150AN	0-150 Psi	Absolute	30 mV/psi	78H1324	123.04

(60248)

ASDX SERIES AMPLIFIED PRESSURE SENSORS

Honeywell
Sensing and Control

- Supply voltage: 4.75 to 5.25VDC (not reverse polarity protected)
- Response time: 6ms
- Operating temperature: -20°C to 105°C
- DIP package



Amplified version of the SDX series offering a slightly larger footprint and a 4.0V span output. Fully calibrated and temperature compensated using an on-board ASIC. Accurate to within +/- 2.0%. Characterized for operation from a single 5V supply. Ideal for medical instrumentation, barometry, HVAC controls and pneumatic control applications.

0.5 - 4.5VDC OUTPUT

Mfg. Part No.	Pressure Range	Port Style	Stock No.	Price Each
● ASDX001G24R	0-1 Psi	Straight	78H2272	20.33
● ASDX001D44R	0-1 Psi	Straight	78H2271	29.95
● ASDX005G24R	0-5 Psi	Straight	78H2275	30.65
● ASDX005D44R	0-5 Psi	Straight	78H2274	34.42
● ASDX015A24R	0-15 Psi	Straight	78H2277	44.04
● ASDX030A24R	0-30 Psi	Straight	78H2282	31.11
● ASDX030G24R	0-30 Psi	Straight	78H2285	31.11
● ASDX100A24R	0-100 Psi	Straight	78H2287	30.70
● ASDX100G24R	0-100 Psi	Straight	78H2290	30.86
● ASDX100D44R	0-100 Psi	Straight	78H2289	30.65

2.5 +/- 2VDC OUTPUT

● ASDX001D44D	0-1 Psi	Straight	78H2270	27.19
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(78387)

ASDX/ASDX-DO SERIES PLASTIC SILICON PRESSURE SENSORS

Just Added

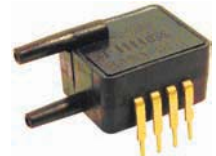
Honeywell

ASDX Series Features:

- Ratiometric 12-bit analog output
- Precision ASIC conditioning and temperature compensated over 0 °C to 85 °C [32 °F to 185 °F] temperature range
- Low operating voltage
- Absolute, differential and gage types
- Pressure ranges from 1 psi to 5 psi
- Standard calibrations in psi, mbar, bar, kPa
- Total error band of ±2.0% of full scale span maximum



Axial port



Radial port

ASDX-DO Series Features:

- I2C or SPI compatible 14-bit digital output
- Precision ASIC conditioning and temperature compensated over 0 °C to 85 °C [32 °F to 185 °F] temperature range
- Low operating voltage

- Absolute, differential and gage types
- Pressure ranges from 1 psi to 5 psi
- Standard calibrations in psi, mbar, bar, kPa
- Total error band of ±2.0% of full scale span maximum

ASDX SERIES ANALOG OUTPUTS

Mfg. Part No.	Pressure Range	Pressure Measuring Type	Port Style	Stock No.	Price Each
ASDXAVX001PGAA5	0-1 psi	Gage	Axial	11R0658	25.79
ASDXAVX005PGAA5	0-5 psi	Gage	Axial	11R0660	25.79
ASDXRRX001PDAA5	0-1 psi	Differential	Radial	11R0662	25.79
ASDXRRX001PGAA5	0-1 psi	Gage	Radial	11R0664	25.79
ASDXRRX005PDAA5	0-5 psi	Differential	Radial	11R0666	25.79
ASDXRRX005PGAA5	0-5 psi	Gage	Radial	11R0668	25.79

➔ CONTINUED ➔

SENSORS – PRESSURE

ASDX/ASDX-DO SERIES PLASTIC SILICON PRESSURE SENSORS (CONT.)

ASDX-DO SERIES DIGITAL OUTPUTS

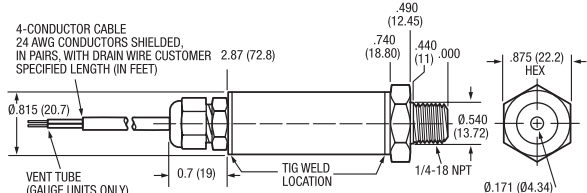
Mfg. Part No.	Pressure Range	Pressure Measuring Type	Port Style	Stock No.	Price Each
ASDXAVX001PG2A5	0-1 psi	Gage	Axial	11R0659	25.79
ASDXAVX005PG2A5	0-5 psi	Gage	Axial	11R0661	25.79
ASDXRRX001PD2A5	0-1 psi	Differential	Radial	11R0663	25.79
ASDXRRX001PG2A5	0-1 psi	Gage	Radial	11R0665	25.79
ASDXRRX005PD2A5	0-5 psi	Differential	Radial	11R0667	25.79
ASDXRRX005PG2A5	0-5 psi	Gage	Radial	11R0669	25.79

(148727)

SPT SERIES STAINLESS STEEL PRESSURE SENSORS

Honeywell

Sensing and Control



- Supply Voltage: +12 to +30VDC
- Response Time: 100msec
- Operating Temperature: -40°C to +125°C
- Pressure Connection: Steel 1/4"-18 NPT Port
- Cable Length: 2' Standard (Pigtail Cable Connection)

Designed for pressure applications that involve measurement of hostile media in harsh environments. Will accommodate any media that will not adversely attack 304 or 316 stainless steel wetted parts. Calibrated and temperature compensated. Feature NEMA 4 design. Ideal for industrial automation and flow control, pressure instrumentation, hydraulic systems and process control applications.

Mfg. Part No.	Pressure	Pressure Type	Output Type	Stock No.	Price Each
SPT4V0005PG5W02	0-5 Psi	Gage	1-5VDC	78H1506	280.69
SPT4V0015PG5W02	0-15 Psi	Gage	1-5VDC	78H1507	274.67
SPT4V0030PG5W02	0-30 Psi	Gage	1-5VDC	78H1508	269.91
SPT4V0100PG5W02	0-100 Psi	Gage	1-5VDC	78H1509	279.37
SPT4V0300PG5W02	0-300 Psi	Gage	1-5VDC	78H1510	281.53
SPT4V0500PG5W02	0-500 Psi	Gage	1-5VDC	78H1511	274.14
SPT4V1000PG5W02	0-1000 Psi	Sealed Gage	1-5VDC	78H1512	136.28
SPT4V2000PS5W02	0-2000 Psi	Sealed Gage	1-5VDC	78H1513	240.02
SPT4V3000PS5W02	0-3000 Psi	Sealed Gage	1-5VDC	78H1514	156.31
SPT4V5000PS5W02	0-5000 Psi	Sealed Gage	1-5VDC	78H1515	236.23

(80260)

ST SERIES PRESSURE TRANSDUCERS

Honeywell

Sensing and Control

The **ST series** are temperature compensated (-40°C to 100°C), calibrated, and have amplified outputs from a silicon sensing element. Applications include: pneumatic equipment, air compressors, air filtration monitoring, and industrial controls. Less than 500 microseconds response time. Port size: 1/8" NPT, stainless steel (1/4" NPT and brass port options). Pressure ranges down to 5 psi are available. Reverse polarity and EMI/RFI protection. Meet IEC enclosure IP65 classifications. Accuracy: ±1.0% FSO. Operating temperature: -40°C to 100°C (-40°F to 212°F). Connection: Packard Electric Metri-Pack™ Connector (mfg. part no. 3685302) 3M Leads.



Mfg. Part No.	Pressure Range (PSI)	Zero Output	Full Scale Output	Excitation	Stock No.	Price Each
ST100PG1SPCF	100	0.5VDC	4.5VDC*	5VDC	30C4631	291.98
ST100PG1SPGF	100	4mA	20mA	9.5-35VDC	30C4632	290.38
ST250PG1SPCF	250	0.5VDC	4.5VDC*	5VDC	30C4634	216.63
ST250PG1SPGF	250	4mA	20mA	9.5-35VDC	30C4635	316.70
ST250PG1SPRF	250	0.5VDC	4.5VDC	7-35VDC	30C4636	185.19

* = Ratioetric Output

CONNECTION

Mfg. Part No.	Description	Stock No.	Price Each
3685302	Packard Electric Female Metri-Pack™ Connector with 3m Leads	72M5174	84.81

(60983)

MLH SERIES ALL METAL PRESSURE SENSORS



Honeywell

Sensing and Control



Just Added

- All metal wetted parts
- No internal elastomeric seals – no o-ring compatibility issues
- Amplified outputs – eliminates cost of external amplifiers
- Reverse polarity and overvoltage protection
- Less than 2ms response time – accurate high speed measurement

Combines the latest in ASIC technology with a proven media isolating, steel diaphragm design. Exceeds CE heavy industrial EMC allowing for use in areas of high EMI/RFI. Accuracy: +/- 0.25% FSO. Compensated operating and storage temperature range: -40°C to +125°C. Gauge parts <300 psi, -40 to 85°C +/- 3%, 85 to 125°C +/- 105. Connection: Packard Electric Metri Pack™ Connector (mfg. part no. 3685302) 3M leads.

1/4"-18 NPT PRESSURE CONNECTION

Mfg. Part No.	Pressure Range (PSI)	Output	Stock No.	1-14	15-24
MLH150PSB01A	150	0.5-4.5VDC, Ratioetric	71M5256	102.50	94.62
MLH250PSB01A	250	0.5-4.5VDC, Ratioetric	42J5748	102.50	94.62
MLH500PSB01A	500	0.5-4.5VDC, Ratioetric	42J5752	78.23	72.21
MLH01KPSB01A	1000	0.5-4.5VDC, Ratioetric	42J5732	99.47	92.19
MLH03KPSB01A	3000	0.5-4.5VDC, Ratioetric	42J5736	99.47	92.19
MLH05KPSB01A	5000	0.5-4.5VDC, Ratioetric	95M4336	100.99	93.22
MLH150PSB01B	150	4-20mA, Current Loop	71M5257	80.06	...
MLH250PSB01B	250	4-20mA, Current Loop	71M5259	102.50	94.62
MLH500PSB01B	500	4-20mA, Current Loop	42J5753	100.99	93.22
MLH01KPSB01B	1000	4-20mA, Current Loop	42J5733	100.99	93.22
MLH03KPSB01B	3000	4-20mA, Current Loop	71M5254	102.50	94.62
MLH05KPSB01B	5000	4-20mA, Current Loop	42J5741	78.88	...

1/2"-27 NPT PRESSURE CONNECTION

MLH250PSB06A	250	0.5-4.5VDC, Ratioetric	42J5750	102.50	94.62
MLH500PSB06A	500	0.5-4.5VDC, Ratioetric	71M5261	102.50	94.62
MLH01KPSB06A	1000	0.5-4.5VDC, Ratioetric	42J5734	102.50	94.62
MLH03KPSB06A	3000	0.5-4.5VDC, Ratioetric	51M8880	98.00	90.83
MLH05KPSB06A	5000	0.5-4.5VDC, Ratioetric	71M5255	98.00	90.83
MLH150PSB06B	150	4-20mA, Current Loop	71M5258	99.47	92.19
MLH250PSB06B	250	4-20mA, Current Loop	71M5260	102.50	94.62
MLH500PSB06B	500	4-20mA, Current Loop	71M5262	102.50	94.62
MLH01KPSB06B	1000	4-20mA, Current Loop	42J5735	102.50	94.62
MLH03KPSB06B	3000	4-20mA, Current Loop	42J5739	99.47	92.19
MLH05KPSB06B	5000	4-20mA, Current Loop	42J5743	99.47	92.19

CONNECTION

Mfg. Part No.	Description	Stock No.	Price Each
3685302	Packard Electric Female Metri-Pack™ Connector with 3M leads	72M5174	84.81

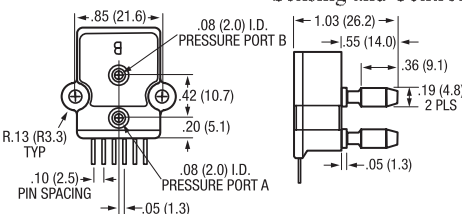
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SCX AND SCXL SERIES PRECISION COMPENSATED PRESSURE SENSORS



Honeywell

Sensing and Control



- SCX series response time: 100msec
- Operating temperature: -40°C to +85°C
- SIP Package
- SCXL series response time: 500msec
- Operating temperature: 0 to +70°C

Provide a very cost-effective solution for pressure applications that require high accuracy over a wide temperature range. Feature an integrated sensor element and laser-trimmed thick film ceramic housed in a compact nylon case. All devices are calibrated for span to within +/-1% and provide a very low pressure output of +/-300 microvolts maximum. Ideal for medical equipment, computer peripherals and pneumatic control applications.

SCX SERIES

Mfg. Part No.	Pressure	Pressure Type	Output/ Span (mV)	Supply Voltage (VDC)	Stock No.	1-24	25-49
SCX01DN	0-1 Psi	Differential/Gage	18	20	78H1477	127.43	116.35
SCX05DN	0-5 Psi	Differential/Gage	60	20	78H1478	74.55	...
SCX15AN	0-15 Psi	Absolute	90	20	10M5247	74.55	...
SCX15DN	0-15 Psi	Differential/Gage	90	20	10M5248	50.51	...
SCX30DN	0-30 Psi	Differential/Gage	90	20	78H1486	120.51	118.03
SCX100DN	0-100 Psi	Differential/Gage	100	20	78H1480	92.68	90.77

» CONTINUED »

SENSORS – PRESSURE

SCX AND SCXL SERIES PRECISION COMPENSATED PRESSURE SENSORS (CONT.)

SCXL SERIES

Mfg. Part No.	Pressure	Pressure Type	Output/ Span (mV)	Supply Voltage (VDC)	Stock No.	Price Each	
						1-24	25-49
● SCXL004DN*	0-4" H2O	Differential/Gage	Ratio	18	10M5245	70.80	...
● SCXL010DN*	0-10" H2O	Differential/Gage	Ratio	20	09J5653	105.32	99.50

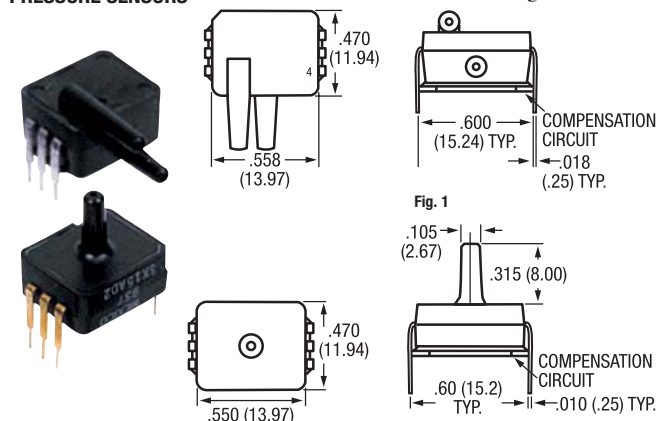
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SDX SERIES PRECISION COMPENSATED PRESSURE SENSORS



Honeywell

Sensing and Control



- Supply Voltage: +20VDC
- Response Time: 100msec

- Operating Temperature: -40°C to +85°C
- DIP Package

Provide a very cost-effective solution for pressure applications that require small size plus performance. Feature an integrated circuit sensor element and laser-trimmed thick film ceramic housed in a compact, solvent-resistant case. Double wide (0.600" lead spacing) dual-inline package. The PC board area used by each DIP is approximately 0.26 square inches, enabling the use of multiple sensors in limited board space. Thru-hole mounting. Ideal for medical equipment, computer peripherals, HVAC and pneumatic control applications.

Mfg. Part No.	Fig.	Pressure	Pressure Type	Output/ Span	Stock No.	Price Each	
						1-24	
● SDX01D4	1	0-5 Psi	Differential/Gage	Voltage	78H1488	58.11	
● SDX15A4	1	0-15 Psi	Differential/Gage	Voltage	10M5258	58.11	
● SDX15D4	1	0-15 Psi	Differential/Gage	Voltage	78H1499	39.54	
● SDX30A4	1	0-30 Psi	Absolute	Voltage	78H1502	40.56	
● SDX005IND4	1	0-5" H2O	Differential/Gage	Voltage	78H1487	81.63	
● SDX010IND4	1	0-10" H2O	Differential/Gage	Voltage	78H1490	70.93	
● SDX01G2	2	0-1 Psi	Gage	Voltage	78H1489	29.75	
● SDX05G2	2	0-5 Psi	Gage	Voltage	10M5255	71.88	
● SDX15A2	2	0-15 Psi	Absolute	Voltage	78H1497	61.10	
● SDX15G2	2	0-15 Psi	Gage	Voltage	78H1500	57.51	
● SDX30A2	2	0-30 Psi	Absolute	Voltage	10M5259	57.51	

(80257)

HONEYWELL HOBBS 5000 SERIES PRESSURE SWITCHES



Honeywell

Sensing and Control

Features:

- Designed to operate with air, motor oils, transmission oils, jet fuels, and other similar hydrocarbon media
- Set point capable of factory or field adjustment
- Durable construction
- Compact size

Specifications:

- Connector: 1/8" NPT male thread screw terminal standard
- Temperature range: -40°F to 250°F
- Models below shipped at factory set point
- Other set points available; go online or call



Mfg. Part No.	Range (Psi)	Factory Set Point (Psi)	Circuitry	Stock No.	Price Each	
					1-14	15-24
● 076575 00000040 01	3.1 - 4	4	SPST-NO	27M2939	24.89	24.09
● 076577 00000040 01	3.1 - 7	4	SPST-NC	10M5309	27.53	26.65
● 076576 00000100 01	8 - 13	10	SPST-NO	10M5308	23.51	22.76
● 076072 00000150 01	14 - 24	15	SPST-NO+SPST-NC	10M5307	32.67	31.62

Dual circuit, NC circuit is reference. NO not adjusted (85774)

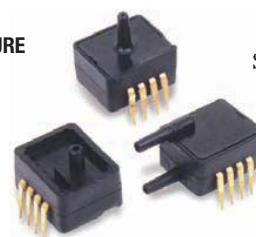
ASDX DO AND ASDXL SERIES MICROSTRUCTURE PRESSURE SENSORS

Honeywell

Sensing and Control



- Calibrated and temperature compensated output
- Response time: 8ms
- Standard DIP package
- ASIC enhanced output
- Supply Voltage: 5VDC



ASDX DO series provides digital correction of sensor offset, sensitivity, temperature coefficients and non-linearity. Uses I²C compatible protocol, which allows easy interfacing to most commonly used microcontrollers and microprocessors without additional components or electronic circuitry. ASDXL series has an analog output that is ratiometric with supply voltage over the compensated supply range with 11-bit resolution. ASDX DO series is accurate to within ±0.0% full scale. ASDXL series is accurate to within ±2.5% full scale. Meets ISO 9001 standards. Intended for use with non-corrosive, non-ionic working fluids such as air and dry gases.

Mfg. Part No.	Operating Pressure (psi)	Pressure Measuring Type	Stock No.	Price Each
				1-24
● ASDX001D44R-DO	1	Differential/Gage	71J3361	27.36

ASDXL SERIES

Mfg. Part No.	Operating Pressure (in H ₂ O)	Pressure Measuring Type	Stock No.	Price Each
				1-24
● ASDXL10D44R	10	Differential	01M5004	39.68

(83947)

SENSOTEC MODEL A105 SUBMINIATURE PRESSURE TRANSDUCERS

Honeywell

Sensing and Control

Features:

- Flush mount design
- Pressure ranges form 500psig to 10,000psig
- Solid frame construction provides durability
- Integral welded stainless steel connectors
- Ideal for applications involving rough handling or where hermetic seal is needed

Specifications:

- Infinite resolution
- Bonded foil strain gage type
- Shunt calibration data included
- Operating temperature: -65°F to 300°F
- 7/16"-20UNF male pressure port threads
- Gas and liquid media
- Mating connector available; order separately below



Mfg. Part No.	Pressure Range (psig)	Stock No.	Price Each
AP311CR	500	27M1796	772.36
AP311CV	1000	27M1797	772.36
AP311DN	3000	27M1798	772.36
AP311DR	5000	27M1799	772.36
AP311DV	10000	27M1800	772.36

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each
AA111	PT06A-10S-6S mating connector	27M1708	48.80
AA112	PT06A-10S-6S mating connector w/50ft of 6-conductor cable	27M1795	148.96
AA113	PT06A-10S-6S mating connector w/15ft of 4-conductor cable	27M1709	99.00

(90233)

SENSOTEC DIN RAIL MOUNT IN-LINE AMPLIFIERS

Honeywell

Sensing and Control



Features:

- For strain gage transducers
- DIN rail mount enclosures with front-accessible electrical connections and adjustments
- Easy calibration and setup
- RFI and ESD protected

Specifications:

- 35mm DIN rail mount
- 60mA current draw
- 5000Hz DC frequency response



Mfg. Part No.	Model	Output (VDC)	Stock No.	Price Each
BE151	DV-05	±5	29M9218	385.66
BE155	DV-10	±10	29M9219	513.61

(90544)

SENSORS – PRESSURE

SENSOTEC MODEL S SUBMINIATURE PRESSURE TRANSDUCERS

Features:

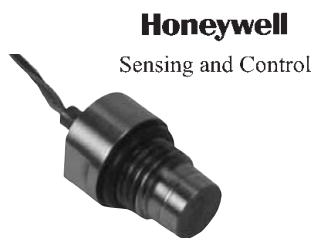
- Flush mount diaphragm design
- High natural frequency
- 1% accuracy

Specifications:

- 2mV/V output
- Infinite resolution
- Operating temperature: -65°F to 300°F
- Bonded foil strain gage
- 4 twisted leads (5ft) electrical termination
- 3/4-24UNF threaded pressure port

Mfg. Part No.	Pressure Range (psig)	Stock No.	Price Each
BP357DN	100	27M2001	761.61
BP357DR	500	27M2002	761.61
BP357DV	1000	27M2003	761.61

(90238)



SENSOTEC MODEL TJE PRECISION GAGE PRESSURE TRANSDUCERS

Features:

- Stainless steel welded construction for rugged industrial applications
- Welded stainless steel diaphragm hermetically seals strain gage circuitry from atmospheric contamination
- Provides stable zero, regardless of the transducer environment
- Long term stability: A welded vacuum reference chamber

Specifications:

- Infinite resolution
- 0.1% accuracy
- Operating temperature: -100°F to 325°F (-1000psi), -100°F to 250°F (3000-10000psi)
- Shunt calibration data included
- Mating connector available; *order separately below*
- Hermetic stainless steel electrical connection

PRESSURE TRANSDUCERS

Mfg. Part No.	Pressure Range (psig)	Stock No.	Price Each
			1-24
AP121BR	100	27M1625	901.72
AP121CR	500	27M1626	613.54
AP121CV	1000	27M1627	901.72
AP121DN	3000	27M1628	608.61
AP121DR	5000	27M1629	608.61
AP121DV	10000	27M1630	613.54

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each
AA111	PT06A-10S-6S mating connector	27M1708	48.80
AA113	PT06A-10S-6S mating connector w/15ft of 4-conductor cable	27M1709	99.00

(90230)

SENSOTEC MODEL 425 WING UNION PRESSURE TRANSMITTERS

Features:

- For use with 1502 2" wing union in demanding land-based and off shore installations
- All welded assembly ensures hermetic integrity in all field conditions
- Vibration and shock proof
- Comply with NACE standard MR-01-75 (1980) for corrosive service
- Applications include cementing, drilling, wellhead measurement, mud logging

Specifications:

- Accuracy: ±0.2%
- Operating temperature: -45°F to 200°F
- Supply voltage: 9-28VDC
- Intrinsically safe-Class 1, DIV 1
- ATEX certified
- Output: 4-20mA (full scale)
- NEMA 4X connector/mating connector

PRESSURE TRANSMITTER

Mfg. Part No.	Pressure Range (psig)	Stock No.	Price Each
BP425DR	0-5000	27M1774	2674.85
BP425EJ	0-15000	27M1773	2674.85

➤ CONTINUED ➤



SENSOTEC MODEL 425 WING UNION PRESSURE TRANSMITTERS (CONT.)

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each
023-0768-00	MS3106F-14S-2S mating connector	27M1775	92.73

(90234)

M5100 INDUSTRIAL PRESSURE SENSORS



Fig. 1



Fig. 2

Features:

- Heavy industrial CE approval
- Reverse polarity protection
- Leak proof: No o-rings, organics, or welds exposed to the pressure media
- Over 10million pressure cycles without failure

Specifications:

- 1/4 NPT male connection
- Termination: Series M5146: DIN 43650 C connector with mate; Series M5131: 24" cable
- Media compatibility: Fluids compatible with 17-4 PH stainless steel
- 1% total error band

0.5 - 4.5VDC OUTPUT

Mfg. Part No.	Fig.	Range (psi)	Stock No.	Price Each	
				1-9	10-99
● M5131-000005-100PG	1	100	35M4446	127.83	109.20
● M5131-000005-200PG	1	200	35M4447	126.79	108.32
● M5131-000005-300PG	1	300	35M4448	124.13	106.04
● M5131-000005-500PG	1	500	35M4449	127.86	109.23
● M5131-000005-01KPG	1	1000	35M4440	127.23	108.70
● M5131-000005-05KPG	1	5000	35M4443	118.92	101.59

1 - 5VDC OUTPUT

● M5146-000005-050PG	2	50	50M9452	151.65	129.56
● M5146-000005-100PG	2	100	50M9454	151.65	129.56
● M5146-000005-200PG	2	200	50M9455	151.65	129.56
● M5146-000005-300PG	2	300	50M9456	151.65	129.56
● M5146-000005-500PG	2	500	50M9457	149.99	128.14
● M5146-000005-01KPG	2	1000	50M9449	151.25	129.22
● M5146-000005-03KPG	2	3000	50M9450	147.23	125.78
● M5146-000005-05KPG	2	5000	50M9451	147.23	125.78
● M5146-000005-10KPG	2	10000	50M9453	151.65	129.56

4 - 20mA OUTPUT

● M5151-000005-050PG	1	50	35M4464	139.98	119.59
● M5151-000005-100PG	1	100	35M4466	139.92	119.53
● M5151-000005-200PG	1	200	35M4467	139.98	119.59
● M5151-000005-300PG	1	300	35M4468	135.90	116.10
● M5151-000005-500PG	1	500	35M4469	139.98	119.59
● M5151-000005-01KPG	1	1000	35M4460	139.98	119.59
● M5156-000005-03KPG	2	3000	50M9458	147.23	125.78
● M5151-000005-05KPG	1	5000	35M4463	139.98	119.59
● M5156-000005-10KPG	2	10000	50M9459	147.23	125.78

(90542)



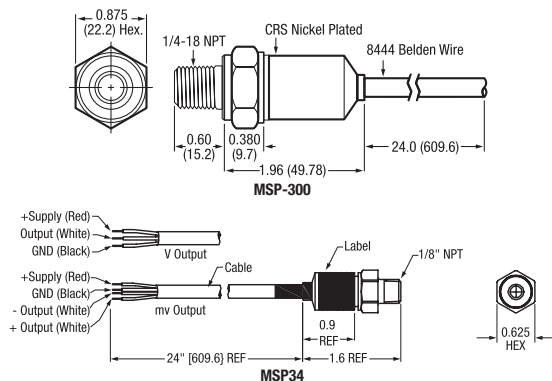
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(148854)

SENSORS – PRESSURE

MSP-300/340 MICROFUSED STAINLESS STEEL ISOLATED PRESSURE TRANSDUCERS



- Accuracy: < 1% FS
- Zero/span and thermal error: <±2% FS
- Operating temperature: -20°C to +85°C
- Compensated temp range: 0°C to +55°C
- Connection: 2 feet cable

Suitable for measurement liquid or gas pressure, even for difficult media such as contaminated water, steam, and mildly corrosive fluids or gases. Machined from a solid piece of 17-4 PH stainless steel. Includes a 1/4 NPT pipe thread allowing a leak-proof, all metal sealed system. There are no o-rings, welds or organics exposed to the pressure media.

MSP-300 1/4" NPT PRESSURE PORT

Mfg. Part No.	Supply Voltage	Pressure Range	Outputs	Stock No.	Price Each
MSP-300-100-P-2-N-1	5VDC	0-100 Psi	0-100mVDC	96H0161	110.23
MSP-300-250-P-2-N-1		0-250 Psi	0-100mVDC	96H0169	110.23
MSP-300-500-P-2-N-1		0-500 Psi	0-100mVDC	96H0173	110.23
MSP-300-01K-P-2-N-1		0-1000 Psi	0-100mVDC	96H0153	110.23
MSP-300-2K5-P-2-N-1		0-2500 Psi	0-100mVDC	96H0165	110.23
MSP-300-05K-P-2-N-1		0-5000 Psi	0-100mVDC	96H0157	110.23
MSP-300-100-P-3-N-1		0-100 Psi	0.5-4.5VDC	96H0162	141.73
MSP-300-250-P-3-N-1		0-250 Psi	0.5-4.5VDC	96H0170	141.73
MSP-300-500-P-3-N-1		0-500 Psi	0.5-4.5VDC	96H0174	141.73
MSP-300-01K-P-3-N-1		0-1000 Psi	0.5-4.5VDC	96H0154	141.73
MSP-300-2K5-P-3-N-1	10-30VDC	0-2500 Psi	0.5-4.5VDC	96H0166	141.73
MSP-300-05K-P-3-N-1		0-5000 Psi	0.5-4.5VDC	96H0158	141.73
MSP-300-100-P-4-N-1		0-100 Psi	1-5VDC	96H0163	150.20
MSP-300-250-P-4-N-1		0-250 Psi	1-5VDC	96H0171	150.20
MSP-300-500-P-4-N-1		0-500 Psi	1-5VDC	96H0175	150.20
MSP-300-01K-P-4-N-1		0-1000 Psi	1-5VDC	96H0155	150.20
MSP-300-2K5-P-4-N-1		0-2500 Psi	1-5VDC	96H0167	150.20
MSP-300-05K-P-4-N-1		0-5000 Psi	1-5VDC	96H0159	150.20
MSP-300-100-P-5-N-1		0-100 Psi	4-20mA	96H0164	157.47
MSP-300-250-P-5-N-1		0-250 Psi	4-20mA	96H0172	157.47
MSP-300-500-P-5-N-1		0-500 Psi	4-20mA	96H0176	157.47
MSP-300-01K-P-5-N-1		0-1000 Psi	4-20mA	96H0156	157.47
MSP-300-2K5-P-5-N-1		0-2500 Psi	4-20mA	96H0168	157.47
MSP-300-05K-P-5-N-1		0-5000 Psi	4-20mA	96H0160	157.47

MSP-340 1/8" NPT PRESSURE PORT

M3421-000006-100PG	5VDC	0-100 Psi	0-100mVDC	96H0194	130.81
M3421-000006-300PG		0-300 Psi	0-100mVDC	96H0195	130.81
M3421-000006-500PG		0-500 Psi	0-100mVDC	96H0196	130.81
M3431-000006-100PG		0-100 Psi	0.5-4.5VDC	96H0198	152.63
M3431-000006-300PG		0-300 Psi	0.5-4.5VDC	96H0199	152.63
M3431-000006-500PG		0-500 Psi	0.5-4.5VDC	96H0200	152.63
M3431-000006-01KPG		0-1000 Psi	0.5-4.5VDC	96H0197	152.63

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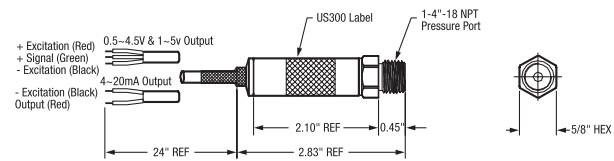


(148830)

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ULTRASTABLE 300 STAINLESS STEEL PRESSURE SENSORS



Vent through cable (under 100psi). Add 0.4" for CE EM/RFI protection. max operating temperature for cable is 100°C

- Perfect for applications less than 100 psi.
- All materials compatible with 316 stainless steel
- Accuracy: 0.1%
- Total error band: < ±1% of FS (75-10K PSI)
- Thermal effect on offset: -1.5 to 1.5 % span
- Thermal hysteresis: ±0.05 typ.
- Operating Temperature: -40°C to +105°C
- Connection: 2 feet cable (IP67 rated)

0.5-4.5VDC OUTPUTS

Mfg. Part No.	Pressure Range	Supply Voltage	Supply Current	Stock No.	Price Each
US331-000005-015PG	0-15Psi	4.75-5.25	2.5-3.5mA	96H0202	133.90
US331-000005-030PG	0-30 Psi	4.75-5.25	2.5-3.5mA	96H0204	133.90
US331-000005-050PG	0-50 Psi	4.75-5.25	2.5-3.5mA	96H0205	133.90
US331-000005-100PG	0-100 Psi	4.75-5.25	2.5-3.5mA	96H0207	133.90
US331-000005-015PA	0-15 Psi	4.75-5.25	2.5-3.5mA	96H0201	133.90
US331-000005-030PA	0-30 Psi	4.75-5.25	2.5-3.5mA	96H0203	133.90
US331-000005-100PA	0-100 Psi	4.75-5.25	2.5-3.5mA	96H0206	133.90

4 to 20mA OUTPUTS

US381-000005-015PG	0-15 Psi	10-30	...	96H0209	141.11
US381-000005-030PG	0-30 Psi	10-30	...	96H0211	141.11
US381-000005-050PG	0-50 Psi	10-30	...	96H0212	141.11
US381-000005-100PG	0-100 Psi	10-30	...	96H0214	141.11
US381-000005-015PA	0-15 Psi	10-30	...	96H0208	141.11
US381-000005-030PA	0-30 Psi	10-30	...	96H0210	141.11
US381-000005-100PA	0-100 Psi	10-30	...	96H0213	141.11

(78726)

ELECTRONIC INDICATING PRESSURE SWITCH/ TRANSMITTERS

Just Added



- Pressure ranges for -14.5 psig to 9999 psig
- 330° Rotatable Display-Head
- Integrated password protection, simple 2-key programming four-digit LED-display
- Scalable analog output
- Fast response time
- Signal Output: 4 mA to 20 mA
- Accuracy: +/- 0.5% Full Scale
- Power supply: 12 - 30 Vdc
- Switch function: 1 N.O. or 1 N.C. (PNP or NPN)
- Process connection: 1/4" NPT male

The NOSHOK 800 Series Electronic Indicating Pressure Switch/Transmitter provides continuous pressure monitoring and allows the programming of the set points without applying pressure. The set points, contact functions (normally open / normally closed), reset points, contact types (npn / pnp) and switching function (hysteresis / gate) are simple to adjust via the two buttons. By the use of proven ceramic or thin film sensors, this pressure switch features a high level of repeatability and durability. The turnable display and the optional turnable process connection allow ease of installation and wiring. 330° rotatable pressure connection. Minimum/maximum value memory. Output dampening up to 2000 msec. Switching time delay.

Mfg. Part No.	Pressure Range (psig)	Stock No.	Price Each
800-2-2-30-2	0 - 30	34P2885	390.00
800-2-2-75-2	0 - 75	34P2889	390.00
800-2-2-145-2	0 - 145	34P2882	390.00
800-2-2-300-2	0 - 300	34P2886	390.00
800-2-2-750-2	0 - 750	34P2890	390.00
800-2-2-1450-2	0 - 1450	34P2883	444.08
800-2-2-2400-2	0 - 2400	34P2884	444.08
800-2-2-3750-2	0 - 3750	34P2887	444.08
800-2-2-6000-2	0 - 6000	34P2888	444.08
800-2-2-9000-2	0 - 9000	34P2891	444.08

(136961)

SENSORS – PRESSURE

HIGH ACCURACY HEAVY DUTY
PRESSURE TRANSDUCERS**NOSHOK**

CE

Just Added

- Ranges from vacuum to 120000 psi
- Advanced diffused semiconductor and sputtered thin film sensor for maximum stability
- High accuracy and long term stability
- Corrosion resistant stainless steel construction
- Span and zero adjustments
- Power Supply: 10 Vdc to 30 Vdc for current output, 14 Vdc to 30 Vdc for voltage output

NOSHOK Series 615 Pressure Transducers are designed for heavy duty applications requiring high accuracy and durability. Utilizing similar diffused semiconductor and sputtered Thin Film technology found in the 100 series, these transducers are stable, accurate, shock resistant, and extremely durable. The durability is coupled with the mechanical integrity of the case, process connection, and wetted parts constructed of corrosion resistant stainless steel, completing the NOSHOK product characteristics you have come to expect. Available in a wide variety of electrical and process configurations and fully adaptable to the 1800, 1900 and 2000 Series Smart System Digital Indicators, the Series 615 Pressure Transducers are the choice for heavy duty applications. A final electrical output and calibration inspection is performed on all NOSHOK transducers prior to shipment to ensure 100% "out of the box" reliability.

CURRENT OUTPUT SIGNALS TRANSDUCERS 4mA TO 20mA, 2-WIRE

Mfg. Part No.	Pressure Range (psig)	Stock No.	Price Each
			Each
615-15-1-1-8-8	0 - 15	34P2860	388.88
615-30-1-1-8-8	0 - 30	34P2868	388.88
615-60-1-1-8-8	0 - 60	34P2876	388.88
615-100-1-1-8-8	0 - 100	34P2856	388.88
615-150-1-1-8-8	0 - 150	34P2862	388.88
615-200-1-1-8-8	0 - 200	34P2864	388.88
615-300-1-1-8-8	0 - 300	34P2870	388.88
615-500-1-1-8-8	0 - 500	34P2874	388.88
615-750-1-1-8-8	0 - 750	34P2880	388.88
615-1000-1-1-8-8	0 - 1000	34P2858	388.88
615-2000-1-1-8-8	0 - 2000	34P2866	388.88
615-3000-1-1-8-8	0 - 3000	34P2872	388.88
615-6000-1-1-8-8	0 - 6000	34P2878	388.88

VOLTAGE OUTPUT SIGNALS TRANSDUCERS 0 VDC TO 10 VDC, 3-WIRE

615-15-1-5-8-8	0 - 15	34P2861	437.38
615-30-1-5-8-8	0 - 30	34P2869	437.38
615-60-1-5-8-8	0 - 60	34P2877	437.38
615-100-1-5-8-8	0 - 100	34P2857	437.38
615-150-1-5-8-8	0 - 150	34P2863	437.38
615-200-1-5-8-8	0 - 200	34P2865	437.38
615-300-1-5-8-8	0 - 300	34P2871	437.38
615-500-1-5-8-8	0 - 500	34P2875	437.38
615-750-1-5-8-8	0 - 750	34P2881	437.38
615-1000-1-5-8-8	0 - 1000	34P2859	437.38
615-2000-1-5-8-8	0 - 2000	34P2867	437.38
615-3000-1-5-8-8	0 - 3000	34P2873	437.38
615-6000-1-5-8-8	0 - 6000	34P2879	437.38

(136945)

HIGH PERFORMANCE
CURRENT OUTPUT
PRESSURE TRANSMITTERS

Just Added

NOSHOK

CE

- Accuracy up to +/- 0.25 % Full Scale (Best fit straight line)
- Welded stainless steel pressure chamber, High overpressure protection
- Advanced diffused semiconductor and sputtered thin film sensor for maximum stability
- High alternating load resistance
- CE compliant to suppress RFI, EMI and ESD noise interference
- Output: 4 mA to 20 mA
- Power Supply: 10 Vdc to 30 Vdc



NOSHOK 100 Series Current Output Pressure Transmitters are designed to provide a previously unequalled level of performance, utilizing diffused semiconductor and sputtered thin film strain gage technology. 100 Series transmitters are highly repeatable, shock resistant and are extremely stable over long periods of time. CE compliance which includes substantial levels of RFI, EMI and ESD noise protection combined with reverse polarity and over-voltage protection hardens the product so it performs well in the most demanding applications. Advanced manufacturing techniques combined with technologically advanced standard features allow NOSHOK to offer a level of performance previously found only on transducers costing hundreds of dollars more. Final calibration tests performed on all NOSHOK transmitters prior to shipment ensures 100% "out of the box" reliability.

➤ CONTINUED ➤

HIGH PERFORMANCE CURRENT OUTPUT PRESSURE TRANSMITTERS (CONT.)

Mfg. Part No.	Pressure Range (psig)	Stock No.	Price Each
			Each
100-15-1-1-2-7	0 - 15	34P2810	326.57
100-30-1-1-2-7	0 - 30	34P2814	326.57
100-60-1-1-2-7	0 - 60	34P2818	326.57
100-100-1-1-2-7	0 - 100	01P2770	314.01
100-150-1-1-2-7	0 - 150	34P2811	326.57
100-200-1-1-2-7	0 - 200	34P2812	326.57
100-300-1-1-2-7	0 - 300	34P2815	326.57
100-500-1-1-2-7	0 - 500	34P2817	326.57
100-750-1-1-2-7	0 - 750	34P2820	326.57
100-1000-1-1-2-7	0 - 1000	34P2809	326.57
100-2000-1-1-2-7	0 - 2000	34P2813	326.57
100-3000-1-1-2-7	0 - 3000	34P2816	326.57
100-6000-1-1-2-7	0 - 6000	34P2819	326.57

(136943)

COMPACT OEM
PRESSURE
TRANSDUCERS

Just Added

NOSHOK

CE

- Ranges from 0 psig to 15 psig to 0 psig to 10000 psig
- Constructed of high quality stainless steel
- Excellent EMC-protection compliant with EN 61 326
- All welded design with no internal seals
- Highly resistant to shock and vibration
- Excellent for use in dynamic or static measurement
- Output signals: 4 mA to 20 mA, 2-wire
- Accuracy: +/- 0.5% Full Scale
- Power supply: 8 Vdc to 30 Vdc
- Process connection: 1/4" NPT male



Ruggedness and long term stability during operation were the focus in the design of this NOSHOK 300 series pressure transducer. As a result of this we were able to develop a transducer for use in general industrial applications with technical specifications exceeding those of transducers costing much more. A wide variety of electrical and mechanical connections are available for easy installation into most applications along with most popular analog output signals. All electrical components carry a high degree of EMC protection compliant with EN 61 326 which make it ideal for areas where RFI, EMI or ESD signals are present. The compact size makes it very attractive for applications where space is limited. Constructed of high quality stainless steel makes it compatible with chemically aggressive media. The sensor is welded directly to the process connection eliminating the need for any gaskets or seals while also increasing the resistance to mechanical stress.

Mfg. Part No.	Pressure Range (psig)	Stock No.	Price Break 1
			Each
300-15-1-1-2-8	0 - 15	34P2845	214.00
300-30-1-1-2-8	0 - 30	34P2850	214.00
300-60-1-1-2-8	0 - 60	34P2855	214.00
300-100-1-1-2-8	0 - 100	34P2842	214.00
300-150-1-1-2-8	0 - 150	34P2846	214.00
300-200-1-1-2-8	0 - 200	34P2848	214.00
300-300-1-1-2-8	0 - 300	34P2851	214.00
300-500-1-1-2-8	0 - 500	34P2853	214.00
300-1000-1-1-2-8	0 - 1000	34P2843	214.00
300-1500-1-1-2-8	0 - 1500	34P2847	214.00
300-2000-1-1-2-8	0 - 2000	34P2849	214.00
300-3000-1-1-2-8	0 - 3000	34P2852	214.00
300-5000-1-1-2-8	0 - 5000	34P2854	214.00
300-10000-1-1-2-8	0 - 10000	34P2844	214.00

(136949)

HIGH PERFORMANCE
DIGITAL PRESSURE
GAUGES

Just Added

NOSHOK

CE

- Proven stable ceramic thick film strain gage sensor
- High accuracy 4 digit LCD display
- Simple front face programming
- Display rotates for best viewing
- Min./Max. value standard
- Analog output or limit switch option



NOSHOK 1000 Series Digital Pressure Gauges were designed to exceed industry's most demanding application requirements. Using the latest in reliable ceramic thick film strain gage technology combined with low power electronics, these gauges are accurate, stable and extremely reliable. NOSHOK digital gauges are ideally suited for local indication, and with the analog voltage output or limit switch option they can interface with other monitoring and control systems. Also, a max./min. memory feature is standard to provide peak and valley capture. A rigorous inspection is performed on all NOSHOK digital gauges after final assembly and prior to shipment to ensure 100% "out of the box" reliability.

➤ CONTINUED ➤

SENSORS – PRESSURE

HIGH PERFORMANCE DIGITAL PRESSURE GAUGES (CONT.)

Mfg. Part No.	Pressure Range (psig)	Stock No.	Price Each
1000-30-2-1	0 - 30	34P2824	393.72
1000-60-2-1	0 - 60	88M3420	378.72
1000-145-2-1	0 - 145	34P2821	393.72
1000-300-2-1	0 - 300	88M3515	378.72
1000-600-2-1	0 - 600	34P2827	393.72
1000-1450-2-1	0 - 1450	34P2822	430.81
1000-2000-2-1	0 - 2000	34P2823	430.81
1000-3000-2-1	0 - 3000	34P2825	430.81
1000-5000-2-1	0 - 5000	34P2826	430.81

(136946)

MINIATURE PRESSURE SENSORS



- 2 Independent NPN Digital Outputs Per Sensor
- Can be Configured Either Normally Opened or Closed
- Power Supply: 12 - 24VDC
- Linearity: $\pm 1\%$
- Choice of Hysteresis or Window Mode and Auto or Manual Programming



E8Y



E8F2

Mfg. part no. E8F2 has additional 1-5VDC analog output. Small in size, dimensions: mfg. part no. E8Y 31 x 30 x 30mm; mfg. part no. E8F2 28 x 28 x 29mm. UL recognized, CE compliant.

Mfg. Part No.	Pressure	Pressure Range	Stock No.	Price Each
E8Y-A5C-RD	Differential	0 - 0.725 PSI	25C5632	442.42
E8F2-D10C	Gauge	0 - 145 PSI	25C4098	316.88
E8F2-DN0C	Gauge	0 - -14.6 PSI	25C4097	316.88

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each
E89-F4	Panel Mounting Bracket mfg. part no. F8F2	25C4102	22.29
E89-Y1	Panel Mounting Bracket mfg. part no. E8Y	12C1109	22.06

(69857)

MINIATURE PRESSURE SENSORS

- Supply: 12VDC
- Output: 1-5VDC
- Connector Wiring Simplifies Installation and Replacement
- Type E8M-A1 Includes 3M Leads
- Linearity: $\pm 19\%$ FS Max.
- Hysteresis: $\pm 1\%$ FS Max.



Small and lightweight. **E8MS series:** 15mm diameter x 29.77mm. **E8M series:** 19 x 29 x 42.5mm cube. Ideal for direct mounting on moving components like robots, cylinders, or chip mounters. Connectors for **E8MS series** available separately.

Mfg. Part No.	Description	Pressure Range (PSI)	Stock No.	Price Each
E8MS-10	Positive	0 - 145	25C4239	139.38
E8MS-N0	Negative	0 - -14.6	25C4240	139.38
E8MA1 3M	Differential	0 - 0.145	38B409	469.12

Mfg. Part No.	Description	Stock No.	Price Each
E89-M4	3-Pin Connector w/3-Meter Cable. Required for mfg. part nos. E8MS-10 and E8MS-N0	25C4242	26.34

(69858)



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(148833)

DIGITAL DIFFERENTIAL PRESSURE SENSORS

Just Added

SENSIRION
THE SENSOR COMPANY

SDP600



SDP610

Features:

- Accuracy better than 0.2% FS near zero
- Digital output (I2C)
- Excellent repeatability, even below 10 Pa
- Calibrated and temperature compensated
- Excellent long-term stability

Application:

- Medical (e.g. respiratory devices)
- HVAC
- Automotive
- Process automation

The SDP600 operates from a 3.3 Vdc supply voltage and features a digital 2-wire interface, which makes it easy to connect directly to a microprocessor. The signal is internally linearized and temperature compensated.

Mfg. Part No.	Measurement Range	Operating Voltage	Stock No.	Price Each
SDP600	-500 to +500 Pa (-2.0 to +2.0 in. H2O)	3.0 - 3.6 Vdc	10R6995	97.36
SDP610	-500 to +500 Pa (-2.0 to +2.0 in. H2O)	3.0 - 3.6 Vdc	10R6996	97.36

(148707)

LOW RANGE DIFFERENTIAL PRESSURE SENSOR

Features:

- For medical ventilators (ICU and home care)
- High sensitivity below 10 Pa to measure small volume flow (neonatal)
- Fast response time for efficient trigger function
- Unsurpassed performance thanks to CMOSens[®] technology
- Offset and hysteresis free
- Fully calibrated and temperature compensated
- Not sensitive to the mounting orientation and vibrations

Application:

- Medical
- Homecare ventilation
- Intensive care ventilation (ICU)

The SDP1108 is supplied with 5.0 V and provides a 0.25...4.0 V output. Although the output of the sensor is analog, the internal linearization and temperature compensation is performed digitally. This results in a superior accuracy, outstanding resolution (up to 0.05 Pa), and lowest temperature dependence.

Mfg. Part No.	Measurement Range	Supply Voltage	Stock No.	Price Each
SDP1108-R	0.25 to 4 V 0 to 500 Pa 0 to 2 in. H2O	4.75 to 5.25 VDC	53M5897	129.83

(148709)

SENSIRION
THE SENSOR COMPANY

Just Added

LOW RANGE DIFFERENTIAL PRESSURE SENSOR FOR AIR AND NON-AGGRESSIVE GASES

Just Added

SENSIRION
THE SENSOR COMPANY

Features:

- For cost sensitive HVAC and medical OEM applications
- Unsurpassed performance thanks to CMOSens[®] technology
- Offset and hysteresis free
- Excellent accuracy and reproducibility even below 10 Pa
- Fully calibrated and temperature compensated
- Linear or square root extracted output characteristics available
- Not sensitive to the mounting orientation
- Direct PCB mounting with simple snap-on system

Application:

- Medical
- HVAC
- Automotive
- Process Automation

The devices are supplied with 5.0 V and provide a 0.25...4.0 V output. Although the output of the SDP1000 differential pressure sensor is analog, the internal linearization and temperature compensation is performed digitally. This results in a superior accuracy, outstanding resolution (up to 0.05 Pa), and lowest temperature dependence. The SDP1000 is available with a linear or square root extracted output characteristics at the same price. Since fully exchangeable just a few external electronic components around the SDP1000 make a high quality differential sensor transmitter with e.g. an 0...10 V output or other interfaces.

Mfg. Part No.	Measurement Range (Pa)	Stock No.	Price Each
SDP1000-LQ25	62	10R6994	127.92

(148710)

SENSORS – PRESSURE • SENSORS – PROXIMITY

SDP SERIES
DIFFERENTIAL AIR
PRESSURE TRANSDUCERS
SENSIRION
THE SENSOR COMPANY

- Offset and hysteresis free
- Direct PCB Mounting with simple snap-on system
- Excellent accuracy and reproducibility even below 10 Pa
- Fully calibrated and temperature compensated



CMOSens technology combines an economical yet highly precise sensor element with electronics for signal processing on a single chip (ASIC). Voltage output: 0.25 to 4.0 VDC. Linear or square root output characteristics. Zero drift. Perfect for HVAC and Medical applications.

Mfg. Part No.	Measurement Range min/max	Pressure Offset (min/max) Pa	Accuracy	Stock No.	Price Each 1-9
● SDP1000-L	-20 to +500 Pa (2"H2O)	-0.4/+0.4	1% m.v.	18M2968	101.15
● SDP1000-R	-20 to +500 Pa (2"H2O)	-1.0/+1.0	1% m.v.	07J2373	101.15
● SDP1000-L05	-5 to +125 Pa (0.5"H2O)	-0.1/+0.1	1.5% m.v.	18M2969	101.15
● SDP2000-L	-100 to +3500 Pa (14"H2O)	-2.8/+2.8	1% m.v.	07J2374	101.15
● SDP2000-R	-100 to +3500 Pa (14"H2O)	-8.0/+8.0	1% m.v.	07J2375	101.15

(80121)

CAPACITIVE
PROXIMITY SENSORS

Rectangular Housing

Just Added



Cylindrical Housing

- For sensing of granulates, plastics and other ferrous and non-ferrous materials
- Featuring patented TRIPLESIELD™ protection from noise interference caused by ESD, GSM or transient bursts
- Newer types feature "Teach-In" pushbutton programming for sensing range, material detection and N/O or N/C output programming; humidity, dirt and moisture compensation; and automatic detection of NPN or PNP loads
- Available in 12, 18 and 30mm diameters and compact flat pack housing (46 x 28 x 5.5mm)
- Rugged and cost effective polyester housings
- Adjustable sensitivity, up to 30mm
- Easy to view LED indication
- 2m PVC cable (except types ending with -6)

RECTANGULAR HOUSING

Mfg. Part No.	Sensing Distance (mm)	Supply Voltage	Output Type	Max. Current (mA)	Stock No.	Price Each 1-4
● CD46CNC10NP	1-10	10-30VDC	NPN, N/O or C	200	05M4039	178.34
● CD46CNC10PP	1-10	10-30VDC	PNP, N/O or C	200	05M4040	178.34

12mm HOUSING

● CA12CLC08BP	0.5-12	10-40VDC	NPN /PNP, N/O or C	250	05M4027	188.14
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18mm HOUSING

● CA18CLC12BP	0.5-12	10-40VDC	NPN /PNP, N/O or C	250	05M4028	203.82
● CA18CLF08NA	3-8	10-40VDC	NPN N/O	200	93B6230	141.11
CA18CLN12PA	3-12	10-40VDC	PNP N/O	200	16C2342	136.28
CA18CLN12NA	3-12	10-40VDC	NPN N/O	200	16C2340	136.28
● CA18CLN12TO	3-12	20-250VAC	SCR N/O	500	05M4032	219.50
CA18CLN12TC	3-12	20-250VAC	SCR N/C	500	16C2344	219.50

30mm HOUSING

● CA30CLC30BP	1-30	10-40VDC	NPN /PNP, N/O or C	250	10M5141	233.97
● CA30CLF16CP	2-16	20-250VAC/DC	MOSFET N/O or C	250	05M4033	207.00
EC3016TBAPL	4-16	20-250VAC	SCR N/O or C	500	16F2855	314.77
● CA30CLN25CP	2-25	20-250VAC/DC	MOSFET N/O or C	250	05M4034	207.00
EC3025NPAPL	4-25	10-40VDC	NPN N/O & C	200	16F2853	214.67
● EC3025PPAPL	4-25	10-40VDC	PNP N/O & C	200	05M4107	214.67
● EC3025TBAPL	4-25	20-250VAC	SCR N/O or C	500	05M4108	288.24
● EC3025TBAPL-6*	4-25	20-250VAC	SCR N/O or C	500	16C1378	255.00

* With M12 disconnect plug (3585)

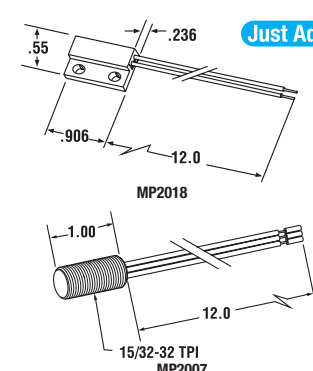
MAGNETIC
PROXIMITY SENSORS
CHERRY

Just Added



MP2007

- Zero Power Consumption
- Hermetically Sealed for Resistance Against Moisture and Dirt
- Can be Activated by North or South Pole of Approaching Magnet
- Operating Temperature: -40°C to +105°C
- Reliable Reed Switch Technology



MP2018

15/32-32 TPI MP2007

Mfg. Part No.	Description	Switching Max. Voltage	Supply Max. Current	Stock No.	Price Each 1-24
● AS101001	Threaded Magnetic Actuator	...	...	98B0564	4.36
● AS201701	Smooth Barrel Actuator	...	...	35C0243	2.53
● AS201801	Mini Flange Mount Actuator	...	...	35C0239	2.65
● AS201901	Flange Mount Actuator	...	...	35H8626	2.87
● HE610400	Threaded Magnetic Actuator	...	...	52F6742	11.88
● MP200701	SPST-N/O Threaded Barrel	175VDC	0.5A	10M6194	8.60
● MP200702	SPST-N/C Threaded Barrel	100VDC	0.2A	05M6405	10.64
● MP200703	SPDT-C/O Threaded Barrel	100VDC	0.2A	05M6406	11.10
● MP201701	SPST-N/O Smooth Barrel	175VDC	0.5A	05M6407	2.69
● MP201702	SPST-N/C Smooth Barrel	100VDC	0.2A	05M6408	4.47
● MP201703	SPDT-C/O Smooth Barrel	100VDC	0.2A	20C2765	5.02
● MP201801	SPST-N/O Mini Flange Mount	175VDC	0.5A	05M6409	2.93
● MP201802	SPST-N/C Mini Flange Mount	100VDC	0.2A	05M6410	4.51
● MP201901	SPST-N/O Flange Mount	175VDC	0.5A	05M6411	3.05
● MP201902	SPST-N/C Flange Mount	100VDC	0.2A	36H4514	4.56

(69349)

CYLINDRICAL INDUCTIVE
PROXIMITY SENSORS

Just Added

Autonics
Sensors & Controllers


PR08



PR12



PR18



PRCM12, PRCM18

- Improved noise resistance with dedicated IC DC 3-wire)
- Reverse power polarity, surge, overcurrent protection (Except PR08 Series)
- Long life cycle and reliable simple operation
- Connector types shorten maintenance time
- Red LED status indication
- IP67 rated waterproof structure (IEC standard)
- Replacer for micro switches and limit switches

INDUCTIVE PROXIMITY SENSORS - WITH PIGTAIL CABLE

Mfg. Part No.	Body Dia. (mm)	Sens. Dist. (mm)	Output Type	Supply Voltage	Connection Type	Stock No.	Price Each 1-9
PR08-1.5DN	8	1.5	NPN, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6725	21.58
PR08-1.5DP	8	1.5	PNP, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6726	21.58
PR08-2DN	8	2	NPN, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6727	21.58
PR08-2DP	8	2	PNP, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6728	21.58
PR12-2DN	12	2	NPN, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6730	21.58
PR12-2DP	12	2	PNP, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6731	21.58
PR12-2AO	12	2	NO	100-240 VAC	2 Meter - 2 Wire Cable	10R6729	31.02
PR12-4DN	12	4	NPN, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6733	21.58
PR12-4DP	12	4	PNP, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6734	21.58
PR12-4AO	12	4	NO	100-240 VAC	2 Meter - 2 Wire Cable	10R6732	31.02
PR18-5DN	18	5	NPN, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6736	21.58
PR18-5DP	18	5	PNP, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6737	21.58

➔ CONTINUED ➔

SENSORS – PROXIMITY

CYLINDRICAL INDUCTIVE PROXIMITY SENSORS (CONT.)

Mfg. Part No.	Body Dia. (mm)	Sens. Dist. (mm)	Output Type	Supply Voltage	Connection Type	Stock No.	Price Each
PR18-5A0	18	5	NO	100-240 VAC	2 Meter - 2 Wire Cable	10R6735	26.98
PR18-8DN	18	8	NPN, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6738	21.58
PR18-8DP	18	8	PNP, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6739	21.58

INDUCTIVE PROXIMITY SENSORS - WITH M12 CONNECTOR

PRCM12-2DN	12	2	NPN, NO	12-24 VDC	3-Pin M12 Disconnect	10R6710	21.57
PRCM12-2DP	12	2	PNP, NO	12-24 VDC	3-Pin M12 Disconnect	10R6711	21.57
PRCM12-4DN	12	4	NPN, NO	12-24 VDC	3-Pin M12 Disconnect	10R6713	21.57
PRCM12-4DP	12	4	PNP, NO	12-24 VDC	3-Pin M12 Disconnect	10R6714	21.58
PRCM12-4A0	12	4	NO	100-240 VAC	2-Pin M12 Disconnect	10R6712	36.41
PRCM18-5DN	18	5	NPN, NO	12-24 VDC	3-Pin M12 Disconnect	10R6715	21.58
PRCM18-5DP	18	5	PNP, NO	12-24 VDC	3-Pin M12 Disconnect	10R6716	21.58

(148691)

LONG SENSING DISTANCE CYLINDRICAL INDUCTIVE PROXIMITY SENSORS

Just Added

Autonics
Sensors & Controllers

PRD12



PRD18

- Longer sensing distance up to 25mm
- Improved noise resistance with dedicated IC DC 3-wire
- Reverse power polarity, surge, overcurrent protection (Except PR08 Series)
- Long life cycle and reliable simple operation
- Red LED status indication
- IP67 rated waterproof structure (IEC standard)
- Replacer for micro switches and limit switches

Mfg. Part No.	Body Dia. (mm)	Sensing Distance (mm)	Output Type	Supply Voltage	Connection Type	Stock No.	Price Each
PRD12-4DN	12	4	NPN, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6717	25.61
PRD12-4DP	12	4	PNP, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6718	25.61
PRD12-8DN	12	8	NPN, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6719	25.61
PRD12-8DP	12	8	PNP, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6720	25.61
PRD18-7DN	18	7	NPN, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6723	25.61
PRD18-7DP	18	7	PNP, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6724	25.61
PRD18-14DN	18	14	NPN, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6721	25.61
PRD18-14DP	18	14	PNP, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6722	25.61

(148692)

ELECTRIC CAPACITIVE PROXIMITY SENSORS

Just Added

Autonics
Sensors & Controllers

CR18



CR30

- Able to detect iron, metal, plastic, water, stone, wood, etc.
- Long life cycle and high reliability
- Reverse power polarity, surge, overcurrent protection

18mm HOUSING

Mfg. Part No.	Body Dia. (mm)	Sensing Distance (mm)	Output Type	Supply Voltage	Connection Type	Stock No.	Price Each
CR18-8DP	18	8	PNP, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6706	62.77
CR18-8AC	18	8	NC	100-240 VAC	2 Meter - 2 Wire Cable	10R6704	100.45
CR18-8A0	18	8	NO	100-240 VAC	2 Meter - 2 Wire Cable	10R6705	100.45

30mm HOUSING

CR30-15DP	30	15	PNP, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6709	98.25
CR30-15AC	30	15	NC	100-240 VAC	2 Meter - 2 Wire Cable	10R6707	131.91
CR30-15A0	30	15	NO	100-240 VAC	2 Meter - 2 Wire Cable	10R6708	131.91

(148689)

GLOBAL SERIES INDUCTIVE SENSORS



Just Added



- Cost effective inductive sensor for high volume use
- Available in industry-standard 8, 12, 18 or 30mm diameters
- DC models available in 2-wire or 3-wire (NPN or PNP) operate on 10-30 VDC
- AC models operate on 20-250 VAC
- Switching frequency of 2 kHz for DC models
- Shielded and unshielded models available
- Models available in either 6.5 ft. (2m) cable or 4-pin euro quick-disconnect



DC Models Only

The Cutter-Hammer Global Series inductive proximity sensor family was designed by Eaton's electrical business as the optimal solution for high volume OEM customers. It has been developed to include the basic functions for high sensing reliability, at the price you need. The Global Series line offers 8, 12, 18 and 30mm diameter connectorized and cable versions with a bright LED indicator to show output status. Nickel-plated brass housing, IP67 degree of protection, CE and cCSAus certified.

3-WIRE, SHIELDED, 10-30 VDC OPERATING VOLTAGE

Mfg. Part No.	Sensing Face Diameter (mm)	Sensing Range (mm)	Output Type	Connection Type	Stock No.	Price Each
E57-08GE03-C	8	3	NPN, NO	6.5 ft. (2m) Cable	63P9094	77.34
E57-08GE03-CDB	8	3	NPN, NO	4-Pin Micro QD	63P9095	80.39
E57-08GE03-C	8	3	NPN, NC	6.5 ft. (2m) Cable	63P9093	80.39
E57-08GE03-G	8	3	PNP, NO	6.5 ft. (2m) Cable	63P9096	77.34
E57-08GE03-GDB	8	3	PNP, NO	4-Pin Micro QD	63P9097	80.39
E57-12GS02-C	12	2	NPN, NO	6.5 ft. (2m) Cable	47K6732	51.39
E57-12GS02-CDB	12	2	NPN, NO	4-Pin Micro QD	47K6733	53.94
E57-12GS02-G	12	2	PNP, NO	6.5 ft. (2m) Cable	47K6741	51.39
E57-12GS02-GDB	12	2	PNP, NO	4-Pin Micro QD	47K6742	53.94
E57-12GE05-C	12	5	NPN, NO	6.5 ft. (2m) Cable	63P9102	71.24
E57-12GE05-CDB	12	5	NPN, NO	4-Pin Micro QD	63P9103	78.87
E57-12GE05-G	12	5	PNP, NO	6.5 ft. (2m) Cable	63P9104	71.24
E57-12GE05-GDB	12	5	PNP, NO	4-Pin Micro QD	63P9105	78.87
E57-18GS05-C	18	5	NPN, NO	6.5 ft. (2m) Cable	47K6789	60.04
E57-18GS05-CDB	18	5	NPN, NO	4-Pin Micro QD	47K6790	62.59
E57-18GS05-G	18	5	PNP, NO	6.5 ft. (2m) Cable	47K6800	60.04
E57-18GS05-GDB	18	5	PNP, NO	4-Pin Micro QD	47K6801	62.59
E57-18GE08-C	18	8	NPN, NO	6.5 ft. (2m) Cable	63P9111	77.85
E57-18GE08-CDB	18	8	NPN, NO	4-Pin Micro QD	63P9112	83.45
E57-18GE08-G	18	8	PNP, NO	6.5 ft. (2m) Cable	63P9113	77.85
E57-18GE08-GDB	18	8	PNP, NO	4-Pin Micro QD	63P9114	83.45
E57-30GS10-C	30	10	NPN, NO	6.5 ft. (2m) Cable	47K6859	72.76
E57-30GS10-CDB	30	10	NPN, NO	4-Pin Micro QD	47K6860	74.80
E57-30GS10-G	30	10	PNP, NO	6.5 ft. (2m) Cable	47K6867	72.76
E57-30GS10-GDB	30	10	PNP, NO	4-Pin Micro QD	47K6868	74.80
E57-30GE15-C	30	15	NPN, NO	6.5 ft. (2m) Cable	63P9119	91.08
E57-30GE15-CDB	30	15	NPN, NO	4-Pin Micro QD	63P9120	96.17
E57-30GE15-G	30	15	PNP, NO	6.5 ft. (2m) Cable	63P9121	91.08
E57-30GE15-GDB	30	15	PNP, NO	4-Pin Micro QD	63P9122	96.17

3-WIRE, UNSHIELDED, 10-30 VDC OPERATING VOLTAGE

E57-08GE06-C	8	6	NPN, NO	6.5 ft. (2m) Cable	63P9098	69.20
E57-08GE06-CDB	8	6	NPN, NO	4-Pin Micro QD	63P9099	74.80
E57-08GE06-G	8	6	PNP, NO	6.5 ft. (2m) Cable	63P9100	69.20
E57-08GE06-GDB	8	6	PNP, NO	4-Pin Micro QD	63P9101	74.80
E57-12GE10-C	12	10	NPN, NO	6.5 ft. (2m) Cable	63P9106	70.22
E57-12GE10-CDB	12	10	NPN, NO	4-Pin Micro QD	63P9108	77.85
E57-12GE10-G	12	10	PNP, NO	6.5 ft. (2m) Cable	63P9109	70.22
E57-12GE10-GDB	12	10	PNP, NO	4-Pin Micro QD	63P9110	77.85
E57-18GE18-C	18	18	NPN, NO	6.5 ft. (2m) Cable	63P9115	76.83
E57-18GE18-CDB	18	18	NPN, NO	4-Pin Micro QD	63P9116	82.43
E57-18GE18-G	18	18	PNP, NO	6.5 ft. (2m) Cable	63P9117	76.83
E57-18GE18-GDB	18	18	PNP, NO	4-Pin Micro QD	63P9118	82.43
E57-30GE29-C	30	29	NPN, NO	6.5 ft. (2m) Cable	63P9123	89.55
E57-30GE29-CDB	30	29	NPN, NO	4-Pin Micro QD	63P9124	95.15
E57-30GE29-G	30	29	PNP, NO	6.5 ft. (2m) Cable	63P9125	89.55
E57-30GE29-GDB	30	29	PNP, NO	4-Pin Micro QD	63P9126	95.15

2-WIRE, SHIELDED, 10-30 VDC OPERATING VOLTAGE

E57-12GS02-D	12	2	NPN/PNP NO	6.5 ft. (2m) Cable	47K6734	78.87
E57-12GS02-DB	12	2	NPN/PNP NO	4-Pin Micro QD	47K6735	82.43
E57-12GE08-D	12	8	NPN/PNP NO	6.5 ft. (2m) Cable	47K6725	98.71
E57-12GE08-DB	12	8	NPN/PNP NO	4-Pin Micro QD	47K6726	102.78
E57-12GE08-D1	12	8	NPN/PNP NC	6.5 ft. (2m) Cable	47K6727	98.71
E57-12GE08-D1DB	12	8	NPN/PNP NC	4-Pin Micro QD	47K6728	102.78

➤ CONTINUED ➤

SENSORS – PROXIMITY

GLOBAL SERIES INDUCTIVE SENSORS (CONT.)

2-WIRE, SHIELDED, 10-30 VDC OPERATING VOLTAGE

Mfg. Part No.	Sensing Face Diameter (mm)	Sensing Range (mm)	Output Type	Connection Type	Stock No.	Price Each
E57-18GS05-D	18	5	NPN/PNP NO	6.5 ft. (2m) Cable	47K6791	91.08
E57-18GS05-DOB	18	5	NPN/PNP NO	4-Pin Micro QD	47K6792	94.13
E57-18GE16-D	18	16	NPN/PNP NO	6.5 ft. (2m) Cable	47K6782	121.10
E57-18GE16-DOB	18	16	NPN/PNP NO	4-Pin Micro QD	47K6783	124.15
E57-18GE16-D1	18	16	NPN/PNP NC	6.5 ft. (2m) Cable	47K6784	121.10
E57-18GE16-D1OB	18	16	NPN/PNP NC	4-Pin Micro QD	47K6785	124.15
E57-30GS10-D	30	10	NPN/PNP NO	6.5 ft. (2m) Cable	47K6861	96.17
E57-30GS10-DOB	30	10	NPN/PNP NO	4-Pin Micro QD	47K6862	98.71
E57-30GE25-D	30	25	NPN/PNP NC	6.5 ft. (2m) Cable	47K6850	127.20
E57-30GE25-DOB	30	25	NPN/PNP NO	4-Pin Micro QD	47K6851	131.27
E57-30GE25-D1	30	25	NPN/PNP NC	6.5 ft. (2m) Cable	47K6852	127.20

2-WIRE, SHIELDED, 20-250 VAC OPERATING VOLTAGE

E57-12GS02-A	12	2	NO	6.5 ft. (2m) Cable	47K6730	94.13
E57-12GS02-AAB	12	2	NO	3-Pin Micro QD	47K6731	98.71
E57-18GS05-A	18	5	NO	6.5 ft. (2m) Cable	47K6787	98.71
E57-18GS05-AAB	18	5	NO	3-Pin Micro QD	47K6788	104.82
E57-30GS10-A	30	10	NO	6.5 ft. (2m) Cable	47K6856	117.03
E57-30GS10-AAB	30	10	NO	3-Pin Micro QD	47K6857	121.10

2-WIRE, UNSHIELDED, 20-250 VAC OPERATING VOLTAGE

E57-12GU04-A	12	4	NO	6.5 ft. (2m) Cable	47K6743	94.13
E57-12GU04-AAB	12	4	NO	3-Pin Micro QD	47K6744	98.71
E57-18GU08-A	18	8	NO	6.5 ft. (2m) Cable	47K6802	98.71
E57-18GU08-AAB	18	8	NO	3-Pin Micro QD	47K6803	110.92
E57-30GU15-A	30	15	NO	6.5 ft. (2m) Cable	47K6869	117.03
E57-30GU15-AAB	30	15	NO	3-Pin Micro QD	47K6870	121.10

MOUNTING BRACKETS

Mfg. Part No.	Description	Stock No.	Price Each
E57KM12	Right Angle Mounting Bracket for 12mm Diameter Sensors, Stainless Steel	47K6985	6.41
E57KM18	Right Angle Mounting Bracket for 18mm Diameter Sensors, Stainless Steel	47K6986	6.41

CONNECTOR CABLES

CSDS4A4CY2202	4-Pin Micro DC Cordset, 6.5 ft. (2m), 22 AWG	46K1910	15.51
CSAS3F3CY2202	3-Pin Micro AC Cordset, 6.5 ft. (2m), 22 AWG	30K7253	19.62
CSAS3F3CY2205	3-Pin Micro AC Cordset, 16 ft. (5m), 22 AWG	30K7254	28.71

(142268)

GLOBAL PLUS INDUCTIVE PROXIMITY SENSORS



Proximity Sensors

Connector Cable

- Most cost-effective inductive proximity sensor on the market
- Choose from cable or connector versions
- 4 LED indicators on all connector versions, single LED indicator on cable versions
- Short-circuit protection on all DC models

The Cutler-Hammer® Global Plus Proximity Sensor Family was designed by Eaton's Electrical business as the optimal solution for high volume OEM customers. It has been optimized to include the basic functions for high sensing reliability, at the price you need. The Global Plus line offers 8, 12, 18 and 30mm diameter connectorized and cable versions with a bright LED indicator to show output status. Nickel-plated brass housing. IP67 degree of protection. CE certified.

SPECIFICATIONS	AC MODELS	DC MODELS
Max. Output Current	500mA	8mm: 100mA 12, 18, 30mm: 200mA
Max. Switching Frequency	10Hz	8mm: 1KHz (Shielded); 600Hz (Unshielded) 12mm: 800Hz (Shielded); 500Hz (Unshielded) 18mm: 500Hz (Shielded); 200Hz (Unshielded) 30mm: 300Hz (Shielded); 100Hz (Unshielded)

3-WIRE, SHIELDED 10-30VDC OPERATING VOLTAGE

Mfg. Part No.	Sensing Face Dia (mm)	Sensing Range (mm)	Output Type	Connection Type	Stock No.	Price Each
E57-08PAS15-C	8	1.5	NPN, NO	2-Meter Cable	30K7257	44.21
E57-08PAS15-CD	8	1.5	NPN, NO	4-Pin Micro DC Connector	30K7258	44.21
E57-08PAS15-G	8	1.5	PNP, NO	2-Meter Cable	30K7259	44.21
E57-08PAS15-GD	8	1.5	PNP, NO	4-Pin Micro DC Connector	30K7260	44.21
E57-08PBS15-C	8	1.5	NPN, NC	2-Meter Cable	30K7265	44.21
E57-08PBS15-CD	8	1.5	NPN, NC	4-Pin Micro DC Connector	30K7266	44.21

➤ CONTINUED ➤

GLOBAL PLUS INDUCTIVE PROXIMITY SENSORS (CONT.)

Mfg. Part No.	Sensing Face Dia (mm)	Sensing Range (mm)	Output Type	Connection Type	Stock No.	Price Each
E57-08PBS15-G	8	1.5	PNP, NC	2-Meter Cable	30K7267	44.21
E57-08PBS15-GD	8	1.5	PNP, NC	4-Pin Micro DC Connector	30K7268	44.21
E57-12PAS02-C	12	2	NPN, NO	2-Meter Cable	30K7275	44.21
E57-12PAS02-CD	12	2	NPN, NO	4-Pin Micro DC Connector	30K7276	44.21
E57-12PAS02-G	12	2	PNP, NO	2-Meter Cable	30K7277	44.21
E57-12PAS02-GD	12	2	PNP, NO	4-Pin Micro DC Connector	30K7278	44.21
E57-12PBS02-C	12	2	NPN, NC	2-Meter Cable	30K7287	44.21
E57-12PBS02-CD	12	2	NPN, NC	4-Pin Micro DC Connector	30K7288	44.21
E57-12PBS02-G	12	2	PNP, NC	2-Meter Cable	30K7289	44.21
E57-12PBS02-GD	12	2	PNP, NC	4-Pin Micro DC Connector	30K7290	44.21
E57-18PAS05-C	18	5	NPN, NO	2-Meter Cable	30K7299	44.21
E57-18PAS05-CD	18	5	NPN, NO	4-Pin Micro DC Connector	30K7300	44.21
E57-18PAS05-G	18	5	PNP, NO	2-Meter Cable	30K7301	44.21
E57-18PAS05-GD	18	5	PNP, NO	4-Pin Micro DC Connector	30K7302	44.21
E57-18PBS05-C	18	5	NPN, NC	2-Meter Cable	30K7311	44.21
E57-18PBS05-CD	18	5	NPN, NC	4-Pin Micro DC Connector	30K7312	44.21
E57-18PBS05-G	18	5	PNP, NC	2-Meter Cable	30K7313	44.21
E57-18PBS05-GD	18	5	PNP, NC	4-Pin Micro DC Connector	30K7314	44.21
E57-30PAS10-GD	30	10	PNP, NO	4-Pin Micro DC Connector	30K7320	55.29

3-WIRE, UNSHIELDED, 10-30VDC OPERATING VOLTAGE

E57-08PAU02-C	8	2	NPN, NO	2-Meter Cable	30K7261	44.21
E57-08PAU02-CD	8	2	NPN, NO	4-Pin Micro DC Connector	30K7262	44.21
E57-08PAU02-G	8	2	PNP, NO	2-Meter Cable	30K7263	44.21
E57-08PAU02-GD	8	2	PNP, NO	4-Pin Micro DC Connector	30K7264	44.21
E57-08PB02-C	8	2	NPN, NC	2-Meter Cable	30K7269	44.21
E57-08PB02-CD	8	2	NPN, NC	4-Pin Micro DC Connector	30K7270	44.21
E57-08PB02-G	8	2	PNP, NC	2-Meter Cable	30K7271	44.21
E57-08PB02-GD	8	2	PNP, NC	4-Pin Micro DC Connector	30K7272	44.21
E57-12PAU04-C	12	4	NPN, NO	2-Meter Cable	30K7281	44.21
E57-12PAU04-CD	12	4	NPN, NO	4-Pin Micro DC Connector	30K7282	44.21
E57-12PAU04-G	12	4	PNP, NO	2-Meter Cable	30K7283	44.21
E57-12PAU04-GD	12	4	PNP, NO	4-Pin Micro DC Connector	30K7284	44.21
E57-12PB04-C	12	4	NPN, NC	2-Meter Cable	30K7293	44.21
E57-12PB04-CD	12	4	NPN, NC	4-Pin Micro DC Connector	30K7294	44.21
E57-12PB04-G	12	4	PNP, NC	2-Meter Cable	30K7295	44.21
E57-12PB04-GD	12	4	PNP, NC	4-Pin Micro DC Connector	30K7296	44.21
E57-18PAU08-C	18	8	NPN, NO	2-Meter Cable	30K7305	44.21
E57-18PAU08-CD	18	8	NPN, NO	4-Pin Micro DC Connector	30K7306	44.21
E57-18PAU08-G	18	8	PNP, NO	2-Meter Cable	30K7307	44.21
E57-18PAU08-GD	18	8	PNP, NO	4-Pin Micro DC Connector	30K7308	44.21
E57-18PB08-C	18	8	NPN, NC	2-Meter Cable	30K7317	44.21
E57-18PB08-G	18	8	PNP, NC	2-Meter Cable	30K7318	44.21
E57-18PB08-GD	18	8	PNP, NC	4-Pin Micro DC Connector	30K7319	44.21
E57-30PAU15-GD	30	15	PNP, NO	4-Pin Micro DC Connector	30K7321	55.29

2-WIRE, SHIELDED, 20-250VAC OPERATING VOLTAGE

E57-12PAS02-A	12	2	NO	2-Meter Cable	30K7273	63.55
E57-12PAS02-AD	12	2	NO	3-Pin Micro AC Connector	30K7274	74.61
E57-12PBS02-A	12	2	NC	2-Meter Cable	30K7285	63.55
E57-12PBS02-AD	12	2	NC	3-Pin Micro AC Connector	30K7286	74.61
E57-18PAS05-A	18	5	NO	2-Meter Cable	30K7297	55.29
E57-18PAS05-AD	18	5	NO	3-Pin Micro AC Connector	30K7298	59.42
E57-18PBS05-A	18	5	NC	2-Meter Cable	30K7309	55.29
E57-18PBS05-AD	18	5	NC	3-Pin Micro AC Connector	30K7310	59.42

2-WIRE, UNSHIELDED, 20-250VAC OPERATING VOLTAGE

E57-12PAU04-A	12	4	NO	2-Meter Cable	30K7279	63.55
E57-12PAU04-AD	12	4	NO	3-Pin Micro AC Connector	30K7280	74.61
E57-12PB04-A	12	4	NC	2-Meter Cable	30K7291	63.55
E57-12PB04-AD	12	4	NC	3-Pin Micro AC Connector	30K7292	74.61
E57-18PAU08-A	18	8	NO	2-Meter Cable	30K7303	55.29
E57-18PAU08-AD	18	8	NO	3-Pin Micro AC Connector	30K7304	59.42
E57-18PB08-A	18	8	NC	2-Meter Cable	30K7315	55.29
E57-18PB08-AD	18	8	NC	3-Pin Micro AC Connector	30K7316	59.42

CABLES FOR MICRO-CONNECTOR OR QUICK-DISCONNECT SENSORS
PVC jacket. UL listed, c-UL recognized.

Mfg. Part No.	Description	Cable Length (m)	Wire Size (AWG)	Stock No.	Price Each
CSAS3F3CY2202	3-pin Micro AC	2	22	30K7253	19.62
CSAS3F3CY2205	3-pin Micro AC	5	22	30K7254	28.71
CSDS4A3CY2202	4-pin Micro DC	2	22	30K7255	17.30
CSDS4A3CY2205	4-pin Micro DC	5	22	30K7256	20.87

(84769)

SENSORS – PROXIMITY

ACCUPROX™ ANALOG INDUCTIVE PROXIMITY SENSORS

- Extended linear sensing range of up to 25mm (3 times longer than standard tubular analog inductive sensors)
- Outputs available in current (4-20mA or 0-20mA) and voltage (0-10V)
- High output resolution and repeatability for applications requiring precision sensing performance
- Ideal for extreme temperature or high pressure washdown environments
- High noise immunity of 20mV/m prevents many problems associated with electrical noise

AccuProx™ high performance analog inductive proximity sensors provide unmatched sensing range, linearity and resolution in an affordable and compact tubular package. The Electrical signal varies in proportion to the position of the metal target within its sensing range making them ideal for applications requiring precise position sensing and measurements. Robust stainless steel barrel, shock-resistant cap, polycarbonate end bell and impact-absorbing potting compound. Operating voltage: 15-30VDC.

SHIELDED

Mfg. Part No.	Sensing Face Dia. (mm)	Sensing Range (mm)	Connector Type	Output Type	Stock No.	Price Each
						1-9
E59-A12A104C02-CV	12	4	2-meter Cable	Voltage & Current	32M6624	381.38
E59-A12A104D01-CV	12	4	4-Pin Micro	Voltage & Current	32M6625	203.50
E59-A12A104D01-C1	12	4	4-Pin Micro	Current	32M6626	200.73
E59-A18A107C02-CV	18	7	2-meter Cable	Voltage & Current	32M6630	423.56
E59-A18A107D01-CV	18	7	4-Pin Micro	Voltage & Current	32M6631	224.78
E59-A18A107D01-C1	18	7	4-Pin Micro	Current	32M6632	220.15
E59-A30A112C02-CV	30	12	2-meter Cable	Voltage & Current	32M6636	448.17
E59-A30A112D01-CV	30	12	4-Pin Micro	Voltage & Current	32M6637	238.65
E59-A30A112D01-C1	30	12	4-Pin Micro	Current	32M6638	231.25

UNSHIELDED

Mfg. Part No.	Sensing Face Dia. (mm)	Sensing Range (mm)	Connector Type	Output Type	Stock No.	Price Each
						1-9
E59-A12C108C02-CV	12	8	2-meter Cable	Voltage & Current	32M6627	381.38
E59-A12C108D01-CV	12	8	4-Pin Micro	Voltage & Current	32M6628	203.50
E59-A12C108D01-C1	12	8	4-Pin Micro	Current	32M6629	200.73
E59-A18C115C02-CV	18	15	2-meter Cable	Voltage & Current	32M6633	423.56
E59-A18C115D01-CV	18	15	4-Pin Micro	Voltage & Current	32M6634	224.78
E59-A18C115D01-C1	18	15	4-Pin Micro	Current	32M6635	220.15
E59-A30C125C02-CV	30	25	2-meter Cable	Voltage & Current	32M6639	448.17
E59-A30C125D01-CV	30	25	4-Pin Micro	Voltage & Current	32M6640	238.65
E59-A30C125D01-C1	30	25	4-Pin Micro	Current	32M6641	231.25

(90450)

EATON 2-WIRE AND 3-WIRE SHORT BARREL INDUCTIVE PROXIMITY SENSORS

- 360° viewable LED
- Operating temperature: -25°C to 70°C
- Shielded and unshielded models
- 3 diameters 12mm, 18mm and 30mm



These sensors are manufactured to take physical and environmental abuse. Designed with stainless barrel and impact-absorbing net potting compound for robust, high pressure washdown, as well as intense shock and vibration applications. Resettable short circuit protection in AC/DC and DC models. Operating Voltage: 2-Wire AC/DC 40-250 VAC, 20-250 VDC, 3-Wire DC 6-48 VDC. Cable models include an extra long 5-meter cable as option.

2-WIRE AC/DC SENSORS 40-250VAC, 20-250 VDC

Mfg. Part No.	Sensor Diameter (mm)	Sensing Range (mm)	Connection Type	Output Type	Stock No.	Price Each
						1-4
E57SAL12A2	12	2	2-meter Cable	NO	47K7217	151.36
E57SAL12A2SA	12	2	3-pin Micro	NO	47K7220	329.75
E57SBL12A2	12	2	2-meter Cable	NC	47K7267	151.36
E57SBL12A2SA	12	2	3-pin Micro	NC	47K7270	329.75
E57SAL12A2E	12	4	2-meter Cable	NO	47K7218	151.36
E57SAL12A2EA	12	4	3-pin Micro	NO	47K7219	329.75
E57SBL12A2E	12	4	2-meter Cable	NC	47K7268	303.81
E57SBL12A2EA	12	4	3-pin Micro	NC	47K7269	329.75
E57SAL18A2	18	5	2-meter Cable	NO	47K7233	137.97
E57SAL18A2SA	18	5	3-pin Micro	NO	47K7236	298.26
E57SBL18A2	18	5	2-meter Cable	NC	47K7281	137.97
E57SBL18A2SA	18	5	3-pin Micro	NC	47K7283	298.26
E57SBL18A2EA	18	8	3-pin Micro	NC	84K7829	274.17
E57SAL18A2E	18	8	2-meter Cable	NO	47K7234	137.97
E57SAL18A2EA	18	8	3-pin Micro	NO	47K7235	298.26
E57SBL18A2E	18	8	2-meter Cable	NC	47K7282	277.88
E57SAL30A2	30	10	2-meter Cable	NO	47K7251	140.03
E57SAL30A2SA	30	10	3-pin Micro	NO	47K7254	288.99

➔ CONTINUED ➔

EATON 2-WIRE AND 3-WIRE SHORT BARREL INDUCTIVE PROXIMITY SENSORS (CONT.)

Mfg. Part No.	Sensor Diameter (mm)	Sensing Range (mm)	Connection Type	Output Type	Stock No.	Price Each
						1-4
E57SBL30A2SA	30	10	3-pin Micro	NC	84K7833	281.58
E57SAL30A2E	30	15	2-meter Cable	NO	47K7252	140.03
E57SAL30A2EA	30	15	3-pin Micro	NO	47K7253	288.99
E57SBL30A2EA	30	15	3-pin Micro	NC	84K7832	257.50
E57SBL30A2E	30	15	2-meter Cable	NC	47K7294	281.58

3-WIRE DC SENSORS 6-48VDC

Mfg. Part No.	Sensor Diameter (mm)	Sensing Range (mm)	Connection Type	Output Type	Stock No.	Price Each
						1-9
E57SAL12T110	12	2	2-meter Cable	NPN, NO	47K7225	108.11
E57SAL12T110SD	12	2	4-pin Micro	NPN, NO	47K7228	108.11
E57SAL12T111SD	12	2	4-pin Micro	PNP, NO	47K7232	108.11
E57SBL12T111	12	2	2-meter Cable	PNP, NC	47K7277	216.75
E57SBL12T111SD	12	2	4-pin Micro	PNP, NC	47K7280	216.75
E57SAL12T110E	12	4	2-meter Cable	NPN, NO	47K7226	108.11
E57SAL12T110ED	12	4	4-pin Micro	NPN, NO	47K7227	108.11
E57SAL12T111ED	12	4	4-pin Micro	PNP, NO	47K7231	108.11
E57SBL12T110E	12	4	2-meter Cable	NPN, NC	47K7275	216.75
E57SBL12T110ED	12	4	4-pin Micro	NPN, NC	47K7276	216.75
E57SBL12T111E	12	4	2-meter Cable	PNP, NC	47K7278	216.75
E57SBL12T111ED	12	4	4-pin Micro	PNP, NC	47K7279	216.75
E57SAL18T110	18	5	2-meter Cable	NPN, NO	47K7243	118.41
E57SAL18T110SD	18	5	4-pin Micro	NPN, NO	47K7246	118.41
E57SAL18T111	18	5	2-meter Cable	PNP, NO	47K7247	118.41
E57SAL18T111SD	18	5	4-pin Micro	PNP, NO	47K7250	118.41
E57SBL18T111SD	18	5	4-pin Micro	PNP, NC	84K7831	218.60
E57SBL18T110	18	5	2-meter Cable	NPN, NC	47K7287	240.83
E57SBL18T110SD	18	5	4-pin Micro	NPN, NC	47K7290	240.83
E57SBL18T111	18	5	2-meter Cable	PNP, NC	47K7291	240.83
E57SAL18T110E	18	8	2-meter Cable	NPN, NO	47K7244	118.41
E57SAL18T110ED	18	8	4-pin Micro	NPN, NO	47K7245	118.41
E57SAL18T111E	18	8	2-meter Cable	PNP, NO	47K7248	118.41
E57SAL18T111ED	18	8	4-pin Micro	PNP, NO	47K7249	118.41
E57SBL18T111ED	18	8	4-pin Micro	PNP, NC	84K7830	218.60
E57SBL18T110E	18	8	2-meter Cable	NPN, NC	47K7288	240.83
E57SBL18T110ED	18	8	4-pin Micro	NPN, NC	47K7289	240.83
E57SBL18T111E	18	8	2-meter Cable	PNP, NC	47K7292	240.83
E57SAL30T110	30	10	2-meter Cable	NPN, NO	47K7259	140.03
E57SAL30T110E	30	15	2-meter Cable	NPN, NO	47K7260	140.03
E57SAL30T110ED	30	15	4-pin Micro	NPN, NO	47K7261	140.03
E57SAL30T110SD	30	10	4-pin Micro	NPN, NO	47K7262	140.03
E57SAL30T111	30	10	2-meter Cable	PNP, NO	47K7263	140.03
E57SAL30T111E	30	15	2-meter Cable	PNP, NO	47K7264	140.03
E57SAL30T111ED	30	15	4-pin Micro	PNP, NO	47K7265	140.03
E57SAL30T111SD	30	10	4-pin Micro	PNP, NO	47K7266	140.03
E57SBL30T110	30	10	2-meter Cable	NPN, NC	84K7835	281.58
E57SBL30T110SD	30	10	4-pin Micro	NPN, NC	84K7838	281.58
E57SBL30T111	30	10	2-meter Cable	PNP, NC	84K7839	281.58
E57SBL30T111SD	30	10	4-pin Micro	PNP, NC	84K7842	281.58
E57SBL30T110E	30	15	2-meter Cable	NPN, NC	84K7836	281.58
E57SBL30T110ED	30	15	4-pin Micro	NPN, NC	84K7837	281.58
E57SBL30T111E	30	15	2-meter Cable	PNP, NC	84K7840	281.58
E57SBL30T111ED	30	15	4-pin Micro	PNP, NC	84K7841	281.58

STANDARD CABLE - MICRO STYLE

Mfg. Part No.	Voltage Style	Number of Pins	Wire Size (AWG)	Length	Stock No.	Price Each
						1-9 10-24
CSAS3F3CY2202	AC	3	22	2m(6ft.)	30K7253	19.62 18.31

(88424)

IPIXO INTELLIGENT INDUCTIVE PROXIMITY SENSORS



- Auto configures to sinking (NPN) or sourcing (PNP) when wired
- Stainless steel tubes with shock resistant front caps
- Bright dual color 360° status LED, green for power, red for output
- Extended sensing ranges, double that of standard proximity sensors

This full featured proximity sensor combines extended ranges with ruggedness to solve even the toughest applications. It's high vibration absorbing potting compound ensures a longer sensor life and superior resistance to high pressure wash downs and corrosive environments. The DC models make installation easy by sensing whether it needs to NPN or PNP, then auto configuring to that mode. This allows for one sensor to be used in either application. Superior temperature range of -40°C to 70°C. High noise immunity level of 10 v/m.

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SENSORS – PROXIMITY

I-PROX INTELLIGENT INDUCTIVE PROXIMITY SENSORS (CONT.)

2-WIRE SENSORS 20 - 132 VAC

Mfg. Part No.	Output Type	Sensing Range (mm)	Connector Type	Stock No.	Price Each 1-9
E59-M18C118C02-A2	NC	18	2-meter Cable	47K7644	131.43
E59-M30A115A01-A1	NO	15	3-Pin Micro	47K7645	152.42
E59-M30A115A01-A2	NC	15	3-Pin Micro	47K7646	152.42
E59-M30A115C02-A1	NO	15	2-meter Cable	47K7651	134.75
E59-M30A115C02-A2	NC	15	2-meter Cable	47K7652	134.75
E59-M30C129A01-A1	NO	29	3-Pin Micro	47K7659	152.42
E59-M30C129A01-A2	NC	29	3-Pin Micro	47K7660	152.42
E59-M30C129C02-A1	NO	29	2-meter Cable	47K7666	140.85

3-WIRE SENSORS 6 - 48VDC

E59-M12A105D01-D1	NO	4	4-Pin Micro	47K7601	82.26
E59-M12A105C02-D2	NC	4	2-meter Cable	51M4857	83.95
E59-M12C110D01-D2	NC	10	4-Pin Micro	47K7616	113.77
E59-F18A108D01-D1	NO	8	4-Pin Micro	47K7538	150.21
E59-M18C116D01-D1	NO	16	4-Pin Micro	51M4881	79.87
E59-M18C116C02-D2	NC	18	2-meter Cable	51M4878	98.60
E59-M30A115D01-D1	NO	15	4-Pin Micro	47K7655	95.04
E59-M30A115D01-D2	NC	15	4-Pin Micro	47K7656	131.43
E59-F30A115C02-D1	NO	15	2-meter Cable	47K7572	103.28
E59-M30C129D01-D1	NO	29	4-Pin Micro	47K7670	98.83
E59-M30C129C02-D1	NO	25	2-meter Cable	47K7668	86.00

STANDARD CABLE - MICRO STYLE PVC JACKET

Mfg. Part No.	Voltage Style	Number of Pins	Gauge	Length	Stock No.	Price Each 1-9
CSDS4A4CY2202	DC	4-pin 4-wire	22 AWG	6.0ft. (2m)	46K1910	15.51

(88661)

HARSH DUTY PHOTOELECTRIC SENSORS



30 mm

Connector Version

- Thru-beam sensors operating voltage: 20-132VAC, 15-30VDC
- Optimum range: 0.1 to 300ft. (0.03 - 90m)
- Perfect Prox[®] sensors operating voltage: 90-132VAC, 18-50VDC
- 30 mm diameters

- Tempered glass lens cover
- 360° output indicator
- High temperature, high pressure washdown (1200 psi)
- Thru-beam component source

Design to withstand the harshest physical, chemical and optical environments. Ideal for automotive applications where exposure to lubricants, cutting fluids, coolants and glycols is common. Withstands the use of sanitizers, surfactants, and cleaning agents including diluted bases and acids.

THRU-BEAM SENSORS

Mfg. Part No.	Sensing Range (m)	Connector Type	Thru-Beam Component	Stock No.	Price Each 1-4
E58-30TS250-GA	250	2-meter Cable	Source	47K7456	240.15
E58-30TS250-GAP	250	4-pin Micro AC Connector	Source	47K7459	274.11
E58-30TD250-GD	250	2-meter Cable	Detector	47K7423	279.08
E58-30TD250-GDP	250	4-pin Micro AC Connector	Detector	47K7425	309.71
E58-30TD250-GL	250	2-meter Cable	Detector	47K7428	279.08
E58-30TD250-GLP	250	4-pin Micro AC Connector	Detector	47K7431	309.71

PERFECT PROX[®] SENSORS

Mfg. Part No.	Sensing Range (m)	Connector Type	Operate	Stock No.	Price Each 1-4
E58-30DPS280-ED	280	2-meter Cable	Dark	47K7334	279.08
E58-30DPS280-EL	280	2-meter Cable	Light	47K7337	279.08
E58-30DP150-EDP	150	3-pin Micro AC Connector	Dark	47K7357	309.71
E58-30DP150-ELP	150	3-pin Micro AC Connector	Light	47K7360	309.71

(88692)

CABLE AMPLIFIER PROXIMITY SENSORS



Just Added

- Shielded sensor heads for 3-mm to M12 diameters that can be embedded in metal.
- Robotics cables provided as a standard feature (DC 2-Wire Models).
- Indicator provided in Amplifier cable for easy confirmation of operation.
- Power supply range of 12 to 24 VDC (10 to 30 VDC) for DC 2-Wire Models.
- Power supply range of 5 to 24 VDC (4.75 to 30 VDC) for DC 3-Wire Models.

DC 2-WIRE MODELS

Mfg. Part No.	Sensing Diameter	Sensing Range	Connector Type	Output Type	Stock No.	Price Each 1-9
● E2EC-CR8D1	3 mm	0.8 mm	Cable	NO	38B016	195.15
● E2EC-C1R5D1	5.4 mm	1.5 mm	Cable	NO	63M8708	204.74

DC 3-WIRE MODELS

● E2EC-CR5C1	3 mm	0.5 mm	Cable	NPN, NO	16F9314	152.74
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(148671)

LONG BODY INDUCTIVE PROXIMITY SENSORS



Just Added

Increased tightening strength. Cable protectors provided as a standard feature. Increased indicator visibility. A milled section for wrench grip on all models.



AC- 2 WIRE

Mfg. Part No.	Sensing Diameter	Sensing Range	Connection Type	Output Type	Stock No.	Price Each 1-9
E2E2-X2Y1-US	M12	2 mm	Prewired	NO	91F5948	98.47
● E2E2-X5Y1-US	M18	5 mm	Prewired	NO	91F5949	102.00
E2E2-X10Y1-US	M30	10 mm	Prewired	NO	10R5217	115.66

AC CONNECTOR VERSION

● E2E2-X2Y1M4	M12	2 mm	M12 MICRO	NO	38B165	138.35
● E2E2-X5Y1-M4	M18	5 mm	M12 MICRO	NO	10R5219	106.14
● E2E2-X10Y1M4	M30	10 mm	M12 MICRO	NO	38B146	167.96

DC-2 WIRE

● E2E2-X3D1	M12	3 mm	Prewired	NO	91F5953	102.85
E2E2-X7D1	M18	7 mm	Prewired	NO	91F5954	131.94
E2E2-X10D1	M30	10 mm	Prewired	NO	91F5955	136.74

DC-3 WIRE

● E2E2-X2B1	M12	2 mm	Prewired	PNP-NO	38B160	82.40
● E2E2-X5B1	M18	5 mm	Prewired	PNP-NO	38B170	106.37
E2E2-X10C1	M30	10 mm	Prewired	NPN-NO	38B131	111.95
E2E2-X10B1	M30	10 mm	Prewired	PNP-NO	38B129	111.95

DC CONNECTOR VERSION

● E2E2-X2C1-M1	M12	2 mm	M12 MICRO	NPN-NO	91F5950	79.60
● E2E2-X2B1-M1	M12	2 mm	M12 MICRO	PNP-NO	91F5951	79.60
● E2E2-X5C1-M1	M18	5 mm	M12 MICRO	NPN-NO	27M2362	82.54
E2E2-X5B1-M1	M18	5 mm	M12 MICRO	PNP-NO	10R5218	82.54
E2E2-X10C1-M1	M30	10 mm	M12 MICRO	NPN-NO	10R5216	86.10
E2E2-X10B1-M1	M30	10 mm	M12 MICRO	PNP-NO	10R5215	86.10

(148584)

Expert technical support

Chat online to our team of engineers, or connect to them through your representative.

(148838)

SENSORS – PROXIMITY

E2FM STAINLESS STEEL INDUCTIVE PROXIMITY SENSORS



- Chemical-resistant 303 stainless steel case reduces failure from corrosion
- 0.8mm thick sensing face withstands repeated scouring to remove weld spatter
- Flush mountable in ferrous materials to protect sensor from side impact damage
- M12 connectors simplify installation and shorten service time
- IP67 rated for washdown



Operating voltage: 10-30VDC. Output type: NO with or without polarity. Load rating: 3-100mA, 3V residual with polarity, 3-100mA, 5V residual without polarity. Leakage current: 0.8mA. DC surge suppressor, load short-circuit protection. 3-wire DC proximity sensors also available; [go online](#) or [call](#).

Mfg. Part No.	Sensor Diameter (mm)	Sensing Range (mm)	Stock No.	Price Each	
				1-4	5-14
● E2FM-X1R5D1-M1GJ	8	1.5	22M3775	120.24	115.92
● E2FM-X2D1-M1GJ 0.3M	12	2	22M3776	123.58	119.14
● E2FM-X5D1-M1GJ 0.3M	18	5	22M3777	140.43	135.39

(90224)

E2C MINIATURE INDUCTIVE PROXIMITY SENSORS



E2C sensors detect metal objects and feature a separate amplifier that allows sensor to fit in space-confined areas. Detecting distance and differential travel can be adjusted to meet specific application requirements. Require separate amplifier, [order separately, below](#).

MINIATURE SENSORS

Mfg. Part No.	Sensing Range (mm)	Sensor Diameter (mm)	Connector Type	Output Type	Stock No.	Price Each
						1-14
E2CCR5B	0.5	2.0	Cable	NPN, NO/NC	37B9992	145.68
E2CC1A	1	5.4	Cable	NPN, NO/NC	37B9994	114.54
E2C-X1R5A	1.5	M8	Cable	NPN, NO/NC	38B008	107.24

AMPLIFIERS

Mfg. Part No.	For Use With	Output Type	Stock No.	Price Each
				1-14
E2C-GE4A	E2C-CR8A, E2C-C1A, E2C-X1R5A	NPN	37B9999	163.86
E2C-GF4A	E2C-CR8A, E2C-C1A, E2C-X1R5A	PNP	50B6291	163.86
E2C-GE4B	E2C-CR5B	NPN	38B001	163.86

(88484)

SHORT BODY INDUCTIVE PROXIMITY SENSORS

Just Added



E2E proximity sensors detect ferrous metal objects. Packaged in threaded, cylindrical nickel-plated housing. All are normally open. All are shielded for reliable sensing even when mounted near metal housings. All feature operation indicators include mounting nuts. Rated NEMA 1, 4, 6, 12, 13 and IP67. Mounting accessories and protective silicone covers are also available; [go online](#) or [call](#).

AC-2 WIRE

Input voltage: 24-240VAC, switching to 300mA. Mfg. part numbers with **-53-US** suffix are short-circuit protected. Prewired with 6.5 feet (2 meters) cable. UL recognized. **-US** suffix are CSA certified. Dimensions and sensing ranges are in inches and (mm).

➔ CONTINUED ➔

SHORT BODY INDUCTIVE PROXIMITY SENSORS (CONT.)

Mfg. Part No.	Sensing Diameter	Sensing Range	Connection Type	Output Type	Stock No.	Price Each
● E2E-X1R5Y1	M8	1.5 mm	Prewired	NO	07H1889	85.87
● E2E-X2Y1USN	M12	2 mm	Prewired	NO	38B088	116.46
● E2EX5Y1US	M18	5 mm	Prewired	NO	66J6574	91.59
E2E-X10Y1-US	M30	10 mm	Prewired	NO	10R5214	97.32

AC-2 WIRE SCP

E2E-X5Y1-53-US	M18	5 mm	Prewired	SCR-NO	52F4310	150.78
E2E-X10Y1-53-US	M30	10 mm	Prewired	SCR-NO	52F4311	105.79

AC- CONNECTOR VERSION

● E2EX2Y1M1	M12	2 mm	M12 MICRO	NO	66J6525	121.13
● E2EX5Y1M1	M18	5 mm	M12 MICRO	NO	27K4533	128.90
E2E-X10Y1-M1	M30	10 mm	M12 MICRO	NO	10R5213	100.76

DC-2 WIRE

● E2E-X2D1-N	M8	2 mm	Prewired	NO	09J1469	74.42
● E2E-X3D1-N	M12	3 mm	Prewired	NO	09J1476	75.57
● E2E-X7D1-N	M18	7 mm	Prewired	NO	09J1483	73.04
● E2E-X10D1-N	M30	10 mm	Prewired	NO	18M7318	111.81

DC- CONNECTOR VERSION

● E2E-X2D1-M1G	M8	2 mm	M12 MICRO	NO	09J1468	108.71
● E2E-X3D1M1G	M12	3 mm	M12 MICRO	NO	27C1520	88.07
● E2E-X7D1-M1G	M18	7 mm	M12 MICRO	NO	09J1482	90.55
● E2E-X10D1-M1G	M30	10 mm	M12 MICRO	NO	83H5116	119.56

DC-3 WIRE

● E2EX1R5E1	M8	1.5 mm	Prewired	NPN-NO	52F4299	105.48
● E2E-X1R5F1	M8	1.5 mm	Prewired	PNP-NO	83C8553	67.67
● E2E-X2E1	M12	2 mm	Prewired	NPN-NO	52F4302	72.13
● E2E-X2F1	M12	2 mm	Prewired	PNP-NO	52F4301	72.13
● E2E-X5E1	M18	5 mm	Prewired	NPN-NO	52F4304	74.42
● E2E-X5F1	M18	5 mm	Prewired	PNP-NO	52F4303	74.42
● E2E-X10E1	M30	10 mm	Prewired	NPN-NO	09J1459	107.15
● E2E-X10F1	M30	10 mm	Prewired	PNP-NO	09J1461	107.15

CONNECTOR VERSION

● E2E-X1R5E1-M1	M8	1.5 mm	M12 MICRO	NPN-NO	09J1458	81.87
● E2E-X1R5F1-M1	M8	1.5 mm	M12 MICRO	PNP-NO	90B2813	102.50
● E2E-X2E1-M1	M12	2 mm	M12 MICRO	NPN-NO	09J1470	102.50
● E2E-X2F1-M1	M12	2 mm	M12 MICRO	PNP-NO	09J1471	102.50
● E2E-X5E1-M1	M18	5 mm	M12 MICRO	NPN-NO	09J1478	84.35
● E2E-X5F1-M1	M18	5 mm	M12 MICRO	PNP-NO	09J1479	84.35
● E2E-X10E1-M1	M30	10 mm	M12 MICRO	NPN-NO	09J1460	89.30
● E2E-X10F1-M1	M30	10 mm	M12 MICRO	PNP-NO	27M2359	111.81

MINIATURE DC-3 WIRE

● E2E-CR8C1	4mm	0.8mm	Prewired	NPN-NO	92F629	101.41
● E2E-CR8B1	4mm	0.8mm	Prewired	PNP-NO	88K1920	101.41
● E2E-X1C1	M5	1 mm	Prewired	NPN-NO	52F9256	98.47
● E2E-X1B1	M5	1 mm	Prewired	PNP-NO	93K7546	98.47
● E2E-C1C1	5.4 mm	1 mm	Prewired	NPN-NO	38B024	101.41
E2E-C1B1	5.4 mm	1 mm	Prewired	PNP-NO	38B023	137.55

(3534)

PLASTIC INDUCTIVE DC, CYLINDRICAL PROXIMITY SENSORS



Just Added



E2F series detects metal objects and offer excellent resistance to chemical and water washdown environments. Shielded for mounting near metal. Features operation indicators and is prewired with 6.5' of cable and 2 mounting nuts. Meets NEMA enclosure types 1, 3, 4, 6, 12, 13, IEC IP68 classification. UL recognized, CSA certified, CE compliant.

2-WIRE AC SENSORS

Input voltage: 20-264VAC, switch up to 100mA; except circuit protected type with **-53-US** suffix, which is 90-140VAC, 300mA. CSA certified (**-53-US** version only).

Mfg. Part No.	Sensing Diameter	Sensing Range	Connector Type	Output Type	Stock No.	Price Each
E2F-X1R5Y1	M8	1.5 mm	Prewired	NO	52F4293	89.54
● E2F-X2Y1	M12	2 mm	Prewired	NO	52F4292	89.54
● E2F-X5Y1-53-US	M18	5 mm	Prewired	NO	27M2366	104.11
E2F-X10Y1-53-US	M30	10 mm	Prewired	NO	52F4291	93.64
● E2F-X5Y1US	M18	5 mm	Prewired	NO	38B195	91.87
E2F-X10Y1-US	M30	10 mm	Prewired	NO	10R5221	99.30

3-WIRE DC SENSORS

Input voltage: 10-30VDC, switch up to 200mA.

● E2F-X1R5E1	M8	1.5 mm	Prewired	NPN-NO	27M2363	78.03
● E2F-X1R5F1	M8	1.5 mm	Prewired	PNP-NO	38B192	153.60
● E2F-X2E1	M12	2 mm	Prewired	NPN-NO	52F4295	72.04

➔ CONTINUED ➔

SENSORS – PROXIMITY

PLASTIC INDUCTIVE DC, CYLINDRICAL PROXIMITY SENSORS (CONT.)

3-WIRE DC SENSORS

Mfg. Part No.	Sensing Diameter	Sensing Range	Connector Type	Output Type	Stock No.	Price Each
● E2F-X2F1	M12	2 mm	Prewired	PNP-NO	38B193	124.83
● E2F-X5E1	M18	5 mm	Prewired	NPN-NO	52F4296	73.26
● E2F-X5F1	M18	5 mm	Prewired	PNP-NO	38B194	122.23
● E2F-X10E1	M30	10 mm	Prewired	NPN-NO	27M2365	86.71
● E2F-X10F1	M30	10 mm	Prewired	PNP-NO	10R5220	86.71

(51879)

EXTENDED RANGE
INDUCTIVE
PROXIMITY SENSOR

E2EM Series DC 2-wire and 3-wire models provide greater sensing distance and design flexibility. Prewired 2m (6.56') cable. Voltage supply: 12 to 24VDC. 100mA output. Enclosure rating IP67. 2-wire models have no polarity, eliminating reverse wiring. Models below are normally open; PNP models also available; *go online or call*. CE compliant.

2-WIRE MODELS

Mfg. Part No.	Size	Description	Sensing Distance	Stock No.	Price Each
● E2EM-X4X1 2M	M12	Shielded	4mm (0.16")	19C7892	119.68
● E2EM-X8X1 2M	M18	Shielded	8mm (0.31")	19C7895	122.83
● E2EM-X15X1 2M	M30	Shielded	15mm (0.59")	19C7885	129.14
● E2EM-X16MX1 2M	M18	Unshielded	16mm (0.63")	19C7886	138.57
● E2EM-X30MX1 2M	M30	Unshielded	30mm (1.18")	19C7889	177.95

SHIELDED 3-WIRE MODELS

Mfg. Part No.	Size	Output Configuration	Sensing Distance	Stock No.	Price Each
● E2EM-X2C1 2M	M8	NPN	2mm (0.08")	27M2361	114.97
● E2EM-X2B1 2M	M8	PNP	2mm (0.08")	19C7887	114.97
● E2EM-X4C1 2M	M12	NPN	4mm (0.16")	19C7891	114.97
● E2EM-X4B1 2M	M12	PNP	4mm (0.16")	19C7890	114.97
● E2EM-X8C1 2M	M18	NPN	8mm (0.31")	19C7894	118.11
● E2EM-X8B1 2M	M18	PNP	8mm (0.31")	19C7893	118.11
● E2EM-X15C1 2M	M30	NPN	15mm (0.59")	19C7884	124.42

SHIELDED DC 3-WIRE/CONNECTOR MODELS

E2EM-X8B1-M1	M18	PNP	8mm (0.31")	86H2782	166.59
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(60570)

EXTENDED RANGE
DC 3-WIRE
PROXIMITY SENSORS

Just Added



E2A DC 3-wire proximity sensors provide a sensing distance approximately 1.5 to 2 times longer than standard proximity sensors. Choice of prewired cable or M12 connector. Voltage supply: 12 to 24VDC. Normally open NPN output.

SENSORS WITH M12 CONNECTOR

Mfg. Part No.	Size	Sensing Distance (mm)	Overall Length (mm)	Stock No.	Price Each
● E2AS08KS02M1C1	M8	2	43	41M3223	91.07 86.61
● E2AM08LS02M1C1	M8	2	65	41M3218	87.57 83.29
● E2AM12KS04M1C1	M12	4	48	66J5986	91.07 86.61
E2AM12LS04M1B1	M12	4	70	66J5995	91.07 86.61
● E2AM12LS04M1C1	M12	4	70	66J5997	91.07 86.61
E2AM12LN08M1B1	M12	8	70	66J5992	91.07 86.61
● E2AM18KS08M1C1	M18	8	53	41M3219	97.47 92.70
● E2AM18LS08M1C1	M18	8	75	41M3220	97.47 92.70
● E2AM30KS15M1C1	M30	15	58	41M3221	108.66 103.34
● E2AS08LS02M1C1	M8	2	65	41M3224	91.07 86.61

SENSOR WITH M8 3-PIN CONNECTOR

● E2AS08KS02M5C1	M8	2	39	66J6053	91.07 86.61
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PRE-WIRE SENSORS

E2A-S08KS02-WP-B1-2M	M8	2	40	10R5211	64.80 61.63
E2A-S08KS02-WP-C1-2M	M8	2	40	10R5212	64.80 61.63
E2A-M12KS04-WP-B1-2M	M12	4	50	10R5205	64.80 61.63
E2A-M12KS04-WP-C1-2M	M12	4	50	10R5206	64.80 61.63
E2A-M18KS08-WP-B1-2M	M18	8	59	10R5207	69.51 66.11
E2A-M18KS08-WP-C1-2M	M18	8	59	10R5208	69.51 66.11
E2A-M30KS15-WP-B1-2M	M30	15	64	10R5209	74.21 70.59
E2A-M30KS15-WP-C1-2M	M30	15	64	10R5210	74.21 70.59

(86425)

TL-W SUBMINIATURE, FLAT-PACK PROXIMITY SENSORS



Fit tight spaces as small as 0.39" x 1.06" (10mm x 27mm). Watertight construction conforms to IEC enclosure type IP67 classification. Ideal for conveyor mounting. Mount directly onto metal base or rail. Rugged, low-profile plastic housing. Prewired with 2m (6.56') cable length. Mounting bracket included. Inductive, 3-wire DC, 10-30VDC supply, 100mA switching, unshielded. PNP output models also available; *go online or call*. UL registered, CSA certified, CE compliant.

Mfg. Part No.	Sensing Range	Output	Stock No.	Price Each
● TL-W1R5MB1	0.06" (1.5mm)	PNP	50B6350	65.28
● TL-W1R5MC1	0.06" (1.5mm)	NPN	88K2005	65.28
● TL-W3MB1	0.12" (3mm)	PNP	38B1181	69.25
● TL-W3MC1	0.12" (3mm)	NPN	52F4280	69.25
● TL-W5MB1	0.19" (5mm)	PNP	27M2897	59.19
● TL-W5MC1	0.19" (5mm)	NPN	27M2898	59.19

(51877)

E2K-F FLAT-PACK CAPACITIVE PROXIMITY SENSORS



- Flat-pack, thin rectangular plastic DC sensor fits space-confined installations
- Non-contact detection of metallic and non-metallic targets including water, oil, glass, plastic and wood
- Detect level inside non-metallic containers
- 10mm (0.39") plastic body is ideal for conveyor wall mounting
- Unshielded sensor has LED indicator and fixed sensitivity for simple installation



Built-in DC amplifier provides NPN switching of loads up to 100mA. Supply voltage: 10-30VDC. Prewired with 2m 3-conductor cable. Enclosure ratings include IEC IP66, NEMA 1, 4, 12 and 13.

Mfg. Part No.	Sensing Range (mm)	Output Type	Stock No.	Price Each
● E2K-F10MC1	10	NPN, NO	27M2369	118.00
● E2K-F10MC2	10	NPN, NC	38B202	118.00

(90316)

CAPACITIVE PROXIMITY SENSORS

Just Added



E2K-X standard and **E2K-C** series adjustable range capacitive proximity sensors detect metallic and non-metallic objects such as glass, wood, paper, water, oil, and plastic. Switching up to 200mA. Both versions are unshielded, feature operation indicators, come pre-wired with 6.5' of cable, and operate in temperatures from -13°F to +158°F. **E2K-C** series adjustable versions have plastic body construction, are 3.23" (82) long, and include mounting brackets. **E2K-X** series standard versions have threaded plastic body construction and are 3.15" (80) long with mounting nuts. Diameters are listed in description column. All sensors are CSA certified. **E2K-C** series are UL listed. **E2K-X** series are UL recognized. All meet IEC enclosure IP66 classification and NEMA enclosure types 1, 4, 12, and 13.

ADJUSTABLE RANGE VERSIONS

Mfg. Part No.	Sensing Range	Supply Voltage	Output	Dia. (mm)	Stock No.	Price Each
● E2K-C25ME1	3-25 mm	10-40VDC	NPN (NO)	34	52F4322	149.81
● E2K-C25ME2	3-25 mm	10-40VDC	NPN (NC)	34	52F4323	149.81
E2K-C25MF2	3-25 mm	10-40VDC	NPN (NC)	34	38B200	203.20
● E3A2-R3M4T	3-25 mm	10-40VDC	PNP (NO)	34	27M2376	294.13
● E2K-C25MY1	3-25 mm	90-250VAC	SCR (NO)	34	52F4320	193.42
● E2K-C25MY2	3-25 mm	90-250VAC	SCR (NO)	34	27M2368	149.81

STANDARD VERSIONS

● E2K-X4ME1	4 mm	10-30VDC	NPN (NO)	M12	41M3226	120.08
● E2K-X4ME2	4 mm	10-30VDC	NPN (NC)	M12	52F4329	120.08
● E2K-X4MF1	4 mm	10-30VDC	PNP (NO)	M12	38B205	130.08
● E2K-X4MY1	4 mm	90-250VAC	SCR (NO)	M12	27M2373	156.94
● E2K-X8MF1	8 mm	10-30VDC	PNP (NO)	M18	38B207	155.19
● E2K-X8ME1	8 mm	10-30VDC	PNP (NO)	M18	52F4330	123.96

➔ CONTINUED ➔

SENSORS – PROXIMITY

CAPACITIVE PROXIMITY SENSORS (CONT.)

STANDARD VERSIONS

Mfg. Part No.	Sensing Range	Supply Voltage	Output	Dia. (mm)	Stock No.	Price Each
E2K-X8MY1	8 mm	90-250VAC	NPN (NO)	M18	38B208	196.72
E2K-X15MY1	15 mm	90-250VAC	SCR (NO)	M30	27M2371	156.94
E2K-X15MY2	15 mm	90-250VAC	SCR (NO)	M30	27M2372	156.94
E2K-X15ME1	15 mm	10-30VDC	NPN (NO)	M30	27M2370	121.27
E2K-X15MF1	15 mm	10-30VDC	NPN (NO)	M30	38B204	164.48

(3533)

ALL METAL DETECTING PROXIMITY SENSORS



E2EV series detect both ferrous and non-ferrous metals at the same distance. Ideal for applications with work pieces of different metals. Metal body cylindrical sensor features short circuit and reverse polarity protection and operation indicators. 10-30VDC input voltage, switches 100mA. Rated NEMA 1, 3, 4, 6, 12, 13, and IP67. Pre-wired with 6.5' of cable. Includes two mounting nuts. All are 2.36" (60) long. NO = normally open; NC = normally closed.

Mfg. Part No.	Description	Diameter (mm)	Sensing Range	Stock No.	Price Each
E2EV-X5C1	NPN, NO	18	0.20" (5mm)	52F4314	167.76
E2EV-X5C2	NPN, NC	18	0.20" (5mm)	52F4315	176.14
E2EV-X10C2	NPN, NC	30	0.39" (10mm)	52F4317	172.09

(3537)

LIMIT SWITCH STYLE PROXIMITY SENSORS



E2Q2 series offers flexibility with a sensing face that easily changes to any of 5 positions. Installation uses same mounting dimensions as a standard limit switch. Conduit opening: 1/2-NPT. **E2QWN series** are weld field and noise immune, 9-way configurable with 3-pin micro-connector. Both are shielded except 30mm sensing distance versions. Rugged plastic body and stainless steel screws. Enclosure rating IP67. NO=normally open; NC=normally closed. CE compliant.



Mfg. Part No.	Output Type	Sensing Distance	Supply	Stock No.	Price Each
E2Q2-N15Y4-51*	SCR (NO or NC)	0.59" (15mm)	20-250VAC	19C7898	221.38
E2Q2N15Y4-U	SCR (NO or NC)	0.59" (15mm)	20-250VDC	98B7939	216.71
E2Q2-N30MF3-U	PNP (NO + NC)	1.18" (30mm)	10-60VDC	19C7902	195.48

WELD FIELD IMMUNE SENSORS

E2QWN15T1M4	AC/DC 2-wire, NO	0.59" (15mm)	20-150VAC/VDC	27K4552	322.72
E2QWN25T1M4	AC/DC 2-wire, NO	0.98" (25mm)	20-150VAC/VDC	27K4554	333.86
E2QWN35MT1M4	AC/DC 2-wire, NO	1.38" (35mm)	20-150VAC/VDC	27K4556	344.97

*Weld field immune.
(60470)

PILE DRIVER™ INDUCTIVE PROXIMITY SENSORS FOR HARSH ENVIRONMENTS



PEPPERL+FUCHS

SENSING YOUR NEEDS



- One piece stainless steel housing
- Last 20x longer than traditional proximity sensors
- Power + output LED indicators
- Ferrous-only setting
- Operating temperature: -14°F to 158°F
- Extended range models now available



Additional output and termination styles available; go online or call Newark.

2 WIRE DC OUTPUT TYPES - SUPPLY VOLTAGE 6 - 60VDC

Mfg. Part No.	Face Dia. (mm)	Sensing Range (mm)	Load Current (mA)	Termination	Stock No.	Price Each
NMB 2-12GM75-Z0-FE-V1	12	2	100	Micro DC Connector	24C3914	113.90
NMB 5-18GM65-Z0-FE-V1	18	5	100	Micro DC Connector	24C3930	121.96
NMB 8-30GM65-Z0-FE-V1	30	8	100	Micro DC Connector	24C3952	132.31

➔ CONTINUED ➔

PILE DRIVER™ INDUCTIVE PROXIMITY SENSORS FOR HARSH ENVIRONMENTS (CONT.)

3 WIRE NPN & PNP DC OUTPUT TYPES - SUPPLY VOLTAGE: 10-30VDC

Mfg. Part No.	Face Dia. (mm)	Sensing Range (mm)	Load Current (mA)	Termination	Stock No.	Price Each
NMB1.5-8GM50-E0-FE-V3	8	1.5	100	Pico DC Connector	30M8893	119.66
NMB 1.5-8GM50-E2-FE-V3	8	1.5	100	Pico DC Connector	08J9517	119.66
NMB1.5-8GM50-E0-FE-V1	8	1.5	100	Micro DC Connector	30M8892	119.66
NMB 1.5-8GM50-E2-FE-V1	8	1.5	100	Micro DC Connector	83H8356	119.66
NMB1.5-8GM35-E0-FE-150MM-V1	8	1.5	100	Micro DC Connector	30M8890	126.56
NMB1.5-8GM35-E2-FE-150MM-V1	8	1.5	100	Micro DC Connector	30M8891	126.56
NMB 1.5-8GM65-E2-FE-V1	8	1.5	100	Micro DC Connector	03H5624	119.66
NMB2-12GM65-E0-FE-V1	12	2	200	Micro DC Connector	70K3911	94.35
NMB2-12GM65-E2-FE-V1	12	2	200	Micro DC Connector	70K3914	94.35
NMB2-12GM65-E2-CF-V1	12	2	200	Micro DC Connector	70K3913	123.11
NMB5-12GM65-E0-V1	12	5	200	Micro DC Connector	08N1565	111.60
NMB5-12GM65-E2-V1	12	5	200	Micro DC Connector	08N1566	111.60
NMB5-12GM55-E2	12	5	200	2 m Cable	08N1564	111.60
NMB 5-18GM55-E2-FE	18	5	100	2-Meter Cable	24C3923	105.85
NMB5-18GM65-E0-FE-V1	18	5	200	Micro DC Connector	30M8894	105.85
NMB 5-18GM65-E2-FE-V1	18	5	200	Micro DC Connector	24C3928	105.85
NMB5-18GM65-E2-CF-V1	18	5	200	Micro DC Connector	97C8471	143.91
NMB10-18GM65-E0-V1	18	10	200	Micro DC Connector	08N1559	123.11
NMB10-18GM65-E2-V1	18	10	200	Micro DC Connector	08N1560	123.11
NMB10-18GM55-E2	18	10	200	2 m Cable	08N1558	123.11
NMB8-30GM65-E0-FE-V1	30	8	200	Micro DC Connector	30M8895	117.36
NMB 8-30GM65-E2-FE-V1	30	8	200	Micro DC Connector	24C3950	117.36
NMB8-30GM65-E2-CF-V1	30	8	200	Micro DC Connector	97C8472	156.21
NMB15-30GM65-E0-V1	30	15	200	Micro DC Connector	08N1562	134.61
NMB15-30GM65-E2-V1	30	15	200	Micro DC Connector	08N1563	134.61
NMB15-30GM55-E2	30	15	200	2 m Cable	08N1561	134.61

2 WIRE AC/DC OUTPUT TYPE - SUPPLY VOLTAGE: 20-250VAC / 20-300VDC

NMB2-12GM85-US-FE-V12	12	2	8-200	Dual Key Micro AC Connector	72C5734	172.58
NMB 5-18GM85-US-FE-V12	18	5	8-300	Dual Key Micro AC Connector	24C3940	178.33
NMB 8-30GM85-US-FE-V12	30	8	8-300	Dual Key Micro AC Connector	24C3962	184.08
NMB8-30GM85US-FE-V93	30	8	8-200	Mini AC/DC Connector	01J0162	184.08

(69227)

Huge Expanded Selection of Semiconductors

Go online to find new technologies and proven solutions from world-class and specialist suppliers.

(148843)

SENSORS – PROXIMITY

CYLINDRICAL INDUCTIVE PROXIMITY SENSORS

Just Added

PEPPERL+FUCHS
SENSING YOUR NEEDS

- Single LED output status indicator
- Sealing to IP67
- Operating temperature: -14°F to +158°F
- Shielded (embeddable)
- 3-wire PNP output, suffix: -E2
- 3-wire NPN output, suffix: -E0



2 WIRE DC OUTPUT TYPE - SUPPLY VOLTAGE: 5-60 VDC

Mfg. Part No.	Face Dia. (mm)	Range (mm)	Load Current (mA)	Termination	Stock No.	Price Each 1-4
NBB 2-12GM40-Z0	12	2	2-100	PVC Cable	22C9477	69.60
NBB 2-12GM40-Z0-V1	12	2	2-100	Micro DC Connector	24C2530	69.60
NBB5-18GM40-Z0	18	5	2-100	PVC Cable	97C8466	75.40
NBB5-18GM40-Z0-V1	18	5	2-100	Micro DC Connector	97C8467	75.40
NBB10-30GM40-Z0	30	10	2-100	PVC Cable	97C8462	90.48

3 WIRE DC NPN AND PNP OUTPUT TYPES - SUPPLY VOLTAGE: 10-30VDC

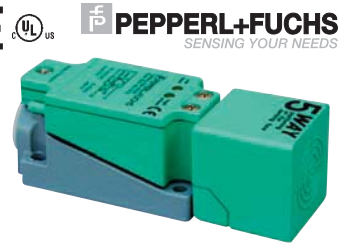
NBB 2-8GM50-E0	8	2	100	PVC Cable	24C2557	81.20
NBB 2-8GM50-E2	8	2	100	PVC Cable	24C2558	81.20
NBB 2-8GM50-E0-V1	8	2	100	Micro DC Connector	24C2555	81.20
NBB 2-8GM40-E2-V1	8	2	100	Micro DC Connector	24C2556	81.20
NBN 2-8GM50-E0	8	2	2-100	PVC Cable	24C2677	91.91
NBN 2-8GM50-E2	8	2	2-100	PVC Cable	24C2680	81.20
NBN 3-8GM50-E0	8	3	2-100	PVC Cable	24C2697	81.20
NBB2-12GM50-E0	12	2	200	PVC Cable	23C1491	69.60
NBB 2-12GM50-E2-V1	12	2	100	Micro DC Connector	24C2539	69.60
NBB 4-12GM50-E0	12	4	200	PVC Cable	24C2565	83.52
NBB 4-12GM50-E0-V1	12	4	200	Micro DC Connector	24C2566	83.52
NBB4-12GM50-E2-V1 ***G***D	12	4	200	Micro DC Connector	71J6364	68.44
NBB 4-12GM50-E2	12	4	200	PVC Cable	24C2567	83.52
NBB5-18GM50-E0	18	5	200	PVC Cable	23C1506	75.40
NBB5-18GM50-E2	18	5	100	PVC Cable	23C1512	75.40
NBB 5-18GM50-E0-V1	18	5	200	Micro DC Connector	24C2584	75.40
NBB 5-18GM50-E2-V1	18	5	100	Micro DC Connector	24C2591	75.40
NBB 8-18GM50-E0	18	8	200	PVC Cable	24C2622	89.32
NBB 8-18GM50-E0-V1	18	8	200	Micro DC Connector	24C2623	89.32
NBB8-18GM50-E2-V1 ***G***D	18	8	200	Micro DC Connector	71J6384	80.04
NBB 8-18GM50-E2	18	8	200	PVC Cable	24C2625	89.32
NBB10-30GM50-E0	30	10	200	PVC Cable	24C2636	90.48
NBB10-30GM50-E0-V1	30	10	200	Micro DC Connector	24C2638	90.48
NBB10-30GM50-E2	30	10	100	PVC Cable	24C2640	90.48
NBB10-30GM50-E2-V1	30	10	200	Micro DC Connector	24C2643	90.48
NBB15-30GM50-E0	30	15	200	PVC Cable	33C9706	103.24
NBB15-30GM50-E2	30	15	200	PVC Cable	03H5344	103.24
NBB15-30GM50-E0-V1	30	15	200	Micro DC Connector	33C9707	103.24

2 WIRE AC OUTPUT TYPE - SUPPLY VOLTAGE: 20-250 VAC

NBB2-12GM60-WS	12	2	5-200	PVC Cable	23C1517	110.20
NBB 2-12GM60-WS-V12	12	2	5-200	Dual Key Micro AC Connector	24C2549	110.20
NBB5-18GM60-WS	18	5	5-200	PVC Connector	23C1553	127.60
NBB10-30GM50-WS	30	25	5-200	PVC Cable	20K1862	148.48
NBB10-30GM50-WS-V93	30	10	5-200	Mini AC Connector	20K1864	148.48
NBB10-30GM50-WS-V12	30	10	5-200	Dual Key Micro AC Connector	20K1863	148.48
NBB5-18GM60-WS-V12 NINIT	18	5	5-200	Dual Key Micro AC Connector	71J6377	107.88

(69211)

LIMIT SWITCH STYLE INDUCTIVE SENSORS



- 5 position head style for easy mounting
- 1/2" NPT opening, screw terminal termination
- Typical operating temperature: -14°F to 158°F
- Dual LED status indicators for power and output
- IP67/68 sealing

Replace mechanical limit switches with solid-state sensing and switching.

4 WIRE DC PNP CUBE STYLE N.O. AND N.C. OUTPUT - SUPPLY VOLTAGE: 10-30 VDC

Mfg. Part No.	Sensing Face Size (mm)	Sensing Range (mm)	Load Current (mA)	Stock No.	Price Each 1-4
NBB20-L2M-A2-V1*	40 x 40	20	200	12J5032	121.55
NBN40-L2M-A2-V1	40 x 40	40	200	71J6440	121.55

3 WIRE DC PNP CUBE STYLE N.O. OUTPUT - SUPPLY VOLTAGE 10-30VDC

NBB20-L2M-E2-V1	40 x 40	20	200	41J2736	115.48
NBN40-L2M-E2-V1	40 x 40	40	200	71J6442	115.48

3 WIRE DC PNP FULL SIZE LIMIT SWITCH N.O. OUTPUT - SUPPLY VOLTAGE: 10-30VDC

NJ20+U4+E2*	40 x 40	20	200	24C3637	158.02
NJ30+U4+E2	40 x 40	30	200	24C3710	164.10
NJ40+U4+E2	55 x 55	40	200	24C3773	176.25

2 WIRE AC FULL SIZE LIMIT SWITCH N.O. OR N.C. OUTPUT - SUPPLY VOLTAGE 20-250VAC

NJ15+U4+W*	40 x 40	15	8-500	24C3549	206.64
NJ40+U4+W	55 x 55	40	8-500	24C3782	255.26

2 WIRE AC/DC CUBE STYLE N.O. OUTPUT - SUPPLY VOLTAGE 20-250VAC/VDC

NBB20-L3M-US-V93*	40 x 40	40	300	29M5239	170.17
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2 WIRE AC/DC FULL SIZE LIMIT SWITCH N.O. OR N.C. OUTPUT - SUPPLY VOLTAGE 20-250VAC

NCB15+U4+U*	40 x 40	15	8-500	24C2845	218.79
NCN40+U4+U	55 x 55	40	8-500	24C2959	261.34

4 WIRE DC FULL SIZE LIMIT SWITCH PNP N.O. OR N.C. OUTPUT - SUPPLY VOLTAGE 10-60VDC

NJ15+U4+A2*	40 x 40	15	200	24C3519	170.17
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*Shielded (69228)

CAPACITIVE PROXIMITY SENSORS

PEPPERL+FUCHS
SENSING YOUR NEEDS

3-Wire DC



2-Wire AC

- Reliable detection of liquid, powdered or granular media
- Rated operating temperature: -14°F to +158°F
- 2-Meter Cable, 3-Conductor Electrical Connection
- Adjustable sensitivity

3-WIRE DC OUTPUT TYPES — NORMALLY OPEN PNP VERSIONS

Mfg. Part No.	Sensing Face Diameter	Sensing Range	Load Current (mA)	Supply Voltage (VDC)	Stock No.	Price Each 1-4
CJ 4-12GM-E2	12mm	4mm	200	10-35	03H4168	264.72
CJ 8-18GM-E2	18mm	8mm	300	10-30	34C2330	264.72
CJ10-30GM-E2	30mm	10mm	200	10-60	73C2972	223.54
● CJ10-30GM-E2-V1	30mm	20mm	200	10-60	03H4186	223.54

2-WIRE AC OUTPUT TYPES — SUPPLY VOLTAGE 20-250VAC/45-60HZ

Mfg. Part No.	Sensing Face Diameter	Sensing Range	Load Current (mA)	Housing	Stock No.	Price Each 1-4
● CJ10-30GK-WS	30mm	10mm	200	Plastic	27C9511	164.71
CJ10-30GM-WS	30mm	10mm	200	Nickel-Plated Brass	25C4030	252.95

(73252)

SENSORS – PROXIMITY

UPROX+ INDUCTIVE PROXIMITY SENSORS



BI4U

NI30U



Features:

- Replaces conventional wound coil system used in previous generation of sensors
- Sensing distances up to 250% higher than conventional ferrite core
- 4-pin M12 Eurofast Q.D. termination
- Short-circuit and overload protection incorporated
- Reverse polarity and wire-break protection
- LEDs indicate: Output energized and short circuit warning

Specifications:

- Environmental rating: NEMA 1, 3, 4, 6, 13; IP68
- Operating temperature: -13°F to 167°F ("WD style" 32°F to 185°F)
- Continuous load current: 200mA
- Voltage drop: 1.8VDC at 200mA
- Input voltage: 10-30VDC
- Normally open output
- Threaded barrel style

EMBEDDABLE

Mfg. Part No.	Sensing Distance (mm)	Sensing Face Dia. (mm)	Output Type	Housing Material	Stock No.	Price Each 1-9
BI4U-EM12-AN6X-H1141	4	12	NPN	Stainless Steel	41M2084	84.63
BI4U-EM12-AP6X-H1141	4	12	PNP	Stainless Steel	41M2085	84.63
BI4U-EM12WD-AN6X-H1141*	4	12	NPN	Stainless Steel	41M2086	110.67
BI4U-EM12WD-AP6X-H1141*	4	12	PNP	Stainless Steel	41M2087	110.67
BI4U-M12-AN6X-H1141	4	12	NPN	Chrome Plated Brass	41M2091	82.46
BI4U-M12-AP6X-H1141	4	12	PNP	Chrome Plated Brass	41M2092	82.46
BI4U-MT12-AN6X-H1141	4	12	NPN	Teflon Coated	41M2088	96.57
BI4U-MT12-AP6X-H1141	4	12	PNP	Teflon Coated	41M2089	96.57
BI4U-MT12E-AP6X2-H1141	4	12	PNP	Teflon Coated	41M2090	96.57
BI8U-EM18-AN6X-H1141	8	18	NPN	Stainless Steel	41M2132	98.74
BI8U-EM18-AP6X-H1141	8	18	PNP	Stainless Steel	41M2133	98.74
BI8U-EM18WD-AN6X-H1141*	8	18	NPN	Stainless Steel	41M2134	125.21
BI8U-EM18WD-AP6X-H1141*	8	18	PNP	Stainless Steel	41M2135	125.21
BI8U-M18-AN6X-H1141	8	18	NPN	Chrome Plated Brass	41M2138	96.57
BI8U-M18-AP6X-H1141	8	18	PNP	Chrome Plated Brass	41M2139	96.57
BI8U-MT18-AN6X-H1141	8	18	NPN	Teflon Coated	41M2136	109.59
BI8U-MT18-AP6X-H1141	8	18	PNP	Teflon Coated	41M2137	109.59
BI15U-EM30-AN6X-H1141	15	30	NPN	Stainless Steel	41M2178	98.74
BI15U-EM30-AP6X-H1141	15	30	PNP	Stainless Steel	41M2179	98.74
BI15U-EM30WD-AN6X-H1141*	15	30	NPN	Stainless Steel	41M2180	125.21
BI15U-EM30WD-AP6X-H1141*	15	30	PNP	Stainless Steel	41M2181	129.01
BI15U-M30-AN6X-H1141	15	30	NPN	Chrome Plated Brass	41M2185	96.57
BI15U-M30-AP6X-H1141	15	30	PNP	Chrome Plated Brass	41M2186	96.57
BI15U-MT30-AN6X-H1141	15	30	NPN	Teflon Coated	41M2182	109.59
BI15U-MT30-AP6X2-H1141	15	30	PNP	Teflon Coated	41M2184	109.59
BI15U-MT30-AP6X-H1141	15	30	PNP	Teflon Coated	41M2183	109.59

NONEMBEDDABLE

NI10U-EM12-AN6X-H1141	10	12	NPN	Stainless Steel	41M3663	84.63
NI10U-EM12-AP6X-H1141	10	12	PNP	Stainless Steel	41M3664	84.63
NI10U-EM12WD-AN6X-H1141*	10	12	NPN	Stainless Steel	41M3665	110.67
NI10U-EM12WD-AP6X-H1141*	10	12	PNP	Stainless Steel	41M3666	110.67
NI10U-M12-AN6X-H1141	10	12	NPN	Chrome Plated Brass	41M3670	82.46
NI10U-M12-AP6X-H1141	10	12	PNP	Chrome Plated Brass	41M3671	82.46
NI10U-MT12-AN6X-H1141	10	12	NPN	Teflon Coated	41M3667	96.57
NI10U-MT12-AP6X-H1141	10	12	PNP	Teflon Coated	41M3668	96.57
NI10U-MT12E-AP6X2-H1141	10	12	PNP	Teflon Coated	41M3669	98.74
NI15U-EM18-AN6X-H1141	15	18	NPN	Stainless Steel	41M3702	98.74
NI15U-EM18-AP6X-H1141	15	18	PNP	Stainless Steel	41M3703	98.74
NI15U-EM18WD-AN6X-H1141*	15	18	NPN	Stainless Steel	41M3704	125.21
NI15U-EM18WD-AP6X-H1141*	15	18	PNP	Stainless Steel	41M3705	125.21
NI15U-M18-AN6X-H1141	15	18	NPN	Chrome Plated Brass	41M3708	96.57
NI15U-M18-AP6X-H1141	15	18	PNP	Chrome Plated Brass	41M3709	96.57
NI15U-MT18-AN6X-H1141	15	18	NPN	Teflon Coated	41M3706	109.59
NI15U-MT18-AP6X-H1141	15	18	PNP	Teflon Coated	41M3707	109.59
NI30U-EM30-AN6X-H1141	30	30	NPN	Stainless Steel	41M3729	98.74
NI30U-EM30-AP6X-H1141	30	30	PNP	Stainless Steel	41M3730	98.74
NI30U-EM30WD-AN6X-H1141*	30	30	NPN	Stainless Steel	41M3731	125.21
NI30U-EM30WD-AP6X-H1141*	30	30	PNP	Stainless Steel	41M3732	125.21
NI30U-M30-AN6X-H1141	30	30	NPN	Chrome Plated Brass	41M3736	96.57

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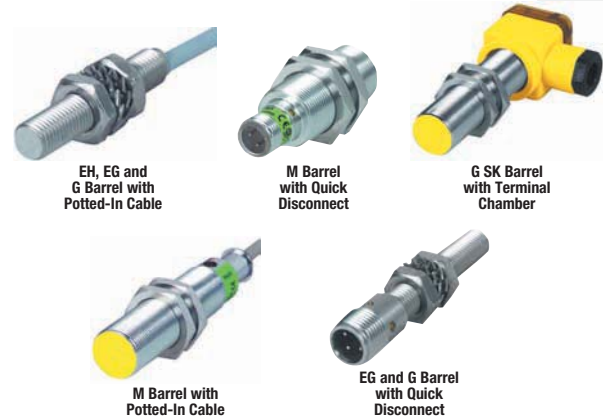
UPROX+ INDUCTIVE PROXIMITY SENSORS (CONT.)

NONEMBEDDABLE

Mfg. Part No.	Sensing Distance (mm)	Sensing Face Dia. (mm)	Output Type	Housing Material	Stock No.	Price Each 1-9
NI30U-M30-AP6X-H1141	30	30	PNP	Chrome Plated Brass	41M3737	96.57
NI30U-MT30-AN6X-H1141	30	30	NPN	Teflon Coated	41M3733	109.59
NI30U-MT30-AP6X2-H1141	30	30	PNP	Teflon Coated	41M3735	109.59
NI30U-MT30-AP6X-H1141	30	30	PNP	Teflon Coated	41M3734	109.59

* Washdown - IP67, IP68, IP69K (91197)

4-30 MM BARREL DC INDUCTIVE PROXIMITY SENSORS 3-WIRE



Features:

- Choice of Barrer with Potted-In Cable, M8 (picofast), M12 (eurofast), Quick-Disconnect or Terminal Chamber
- Short-Circuit and Overload Protected
- Reverse Polarity and Wire Break Protection
- LED Indicator: Output Energized (Additional Power on LED, Terminal Chamber Versions)
- Normally Open Output

Specifications:

- Environmental rating: NEMA 1, 3, 4, 6, 13; IP67
- Operating temperature: -13°F to 158°F
- Voltage Drop: 1.8 VDC at Max. Load Current

Solve space problems with picprox miniature inductive proximity sensors. Perfect for positioning control, small parts placement, robotic grippers, counting, inspecting, and other applications where space is a problem. Self contained DC units switch 100 mA loads with tiny 4 mm, 5 mm, 6.5 mm and 8 mm diameter housings with built-in LEDs.

Mfg. Part No.	Sensing Distance (mm)	Sensing Face Dia. (mm)	Output Type	Max. Load Current (mA)	Termination	Stock No.	Price Each 1-9
BI 1-EH04-AP6X	1	4	PNP	100	2 m Cable	41M2041	130.01
BI 1-EH04-AN6X	1	4	NPN	100	2 m Cable	41M2039	130.01
BI 1-EH04-AP6X-V1331	1	4	PNP	100	3-pin picofast	41M2042	130.01
BI 1-EH04-AN6X-V1331	1	4	NPN	100	3-pin picofast	41M2040	130.01
BI 1-EG05-AP6X	1	5	PNP	100	2 m Cable	41M2037	130.01
BI 1-EG05-AN6X	1	5	NPN	100	2 m Cable	41M2035	130.01
BI 1-EG05-AP6X-V1331	1	5	PNP	100	3-pin picofast	41M2038	130.01
BI 1-EG05-AN6X-V1331	1	5	NPN	100	3-pin picofast	41M2036	130.01
● BI 1.5-EH6.5-AP6X	1.5	6.5	PNP	150	2 m Cable	41M2027	99.93
● BI 1.5-EH6.5-AN6X	1.5	6.5	NPN	150	2 m Cable	41M2025	99.93
● BI 1.5-EH6.5-AP6X-V1131	1.5	6.5	PNP	150	3-pin picofast	41M2028	99.93
● BI 1.5-EH6.5-AN6X-V1131	1.5	6.5	NPN	150	3-pin picofast	41M2026	99.93
NI 3-EH6.5-AP6X	3	6.5	PNP	150	2 m Cable	41M3612	99.93
NI 3-EH6.5-AN6X	3	6.5	NPN	150	2 m Cable	41M3610	99.93
NI 3-EH6.5-AP6X-V1131	3	6.5	PNP	150	3-pin picofast	41M3613	99.93
NI 3-EH6.5-AN6X-V1131	3	6.5	NPN	150	3-pin picofast	41M3611	99.93
● BI 1.5-EH6.5-AP6X	1.5	6.5	PNP	150	2 m Cable	41M2027	99.93
● BI 1.5-EH6.5-AN6X	1.5	6.5	NPN	150	2 m Cable	41M2025	99.93
● BI 1.5-EH6.5-AP6X-V1131	1.5	6.5	PNP	150	3-pin picofast	41M2028	99.93

➔ CONTINUED ➔

SENSORS – PROXIMITY

4-30 MM BARREL DC INDUCTIVE PROXIMITY SENSORS 3-WIRE (CONT.)

Mfg. Part No.	Sensing Distance (mm)	Sensing Face Dia. (mm)	Output Type	Max. Load Current (mA)	Termination	Stock No.	Price Each
● BI 1.5-EH6.5-AN6X-V1131	1.5	6.5	NPN	150	3-pin picofast	41M2026	99.93
● BI 2-EG08-AP6X	2	8	PNP	150	2 m Cable	99M0979	114.38
● BI 2-EG08-AN6X	2	8	NPN	150	2 m Cable	99M0977	114.38
● BI 2-EG08-AP6X-V1131	2	8	PNP	150	3-pin picofast	64M0775	114.38
● BI 2-EG08-AN6X-V1131	2	8	NPN	150	3-pin picofast	99M0978	114.38
● BI 2-EG08-AP6X-H1341	2	8	PNP	150	4-pin picofast	55M3552	114.38
● BI 2-EG08-AN6X-H1341	2	8	NPN	150	4-pin picofast	64M5010	114.38
● BI 2-G12-AP6X-H1141	2	12	PNP	200	4-pin picofast	55M3351	88.18
● BI2-G12-AN6X-H1141	2	12	NPN	200	4-pin picofast	41M2050	85.60
BI 2-G12SK-AP6X2	2	12	PNP	200	Terminal Chamber	41M2056	105.00
BI 2-G12SK-AN6X2	2	12	NPN	200	Terminal Chamber	41M2055	105.00
● NI 3-EG08-AP6X	3	8	PNP	170	2 m Cable	99M1012	99.93
● NI 3-EG08-AN6X	3	8	NPN	170	2 m Cable	99M1010	99.93
● NI 3-EG08-AP6X-V1131	3	8	PNP	170	3-pin picofast	84M4053	99.93
● NI 3-EG08-AN6X-V1131	3	8	NPN	170	3-pin picofast	76M8829	99.93
● NI 3-EG08-AP6X-H1341	3	8	PNP	170	4-pin eurofast	99M1013	99.93
● NI 3-EG08-AN6X-H1341	3	8	NPN	170	4-pin eurofast	99M1011	99.93
● BI 4-M12-AP6X	4	12	PNP	200	2 m Cable	41M2078	94.44
● BI 4-M12-AN6X	4	12	NPN	200	2 m Cable	41M2076	94.44
● BI4-M12-AP6X-H1141	4	12	PNP	200	4-pin eurofast	41M2079	97.35
● BI4-M12-AN6X-H1141	4	12	NPN	200	4-pin eurofast	41M2077	97.35
NI5-G12-AP6X-H1141	5	12	PNP	200	4-pin eurofast	41M3632	85.60
● NI5-G12-AN6X-H1141	5	12	NPN	200	4-pin eurofast	41M3630	85.60
NI 5-G12SK-AP6X2	5	12	PNP	200	Terminal Chamber	41M3634	105.00
NI 5-G12SK-AN6X2	5	12	NPN	200	Terminal Chamber	41M3633	105.00
● NI 8-M12-AP6X	8	12	PNP	200	2 m Cable	41M3641	94.44
● NI 8-M12-AN6X	8	12	NPN	200	2 m Cable	41M3639	94.44
● NI8-M12-AP6X-H1141	8	12	PNP	200	4-pin eurofast	01N3955	97.35
● NI8-M12-AN6X-H1141	8	12	NPN	200	4-pin eurofast	41M3640	97.35
● BI5-M18-AP6X-H1141	5	18	PNP	200	4-pin eurofast	41M2104	105.32
BI5-M18-AN6X-H1141	5	18	NPN	200	4-pin eurofast	41M2103	102.20
● BI 5-G18SK-AP6X2	5	18	PNP	200	Terminal Chamber	41M2100	123.87
BI 5-G18SK-AN6X2	5	18	NPN	200	Terminal Chamber	41M2099	123.87
● BI 8-M18-AP6X	8	18	PNP	200	2 m Cable	41M2126	114.38
● BI 8-M18-AN6X	8	18	NPN	200	2 m Cable	41M2124	114.38
● BI8-M18-AP6X-H1141	8	18	PNP	200	4-pin eurofast	41M2127	114.38
BI8-M18-AN6X-H1141	8	18	NPN	200	4-pin eurofast	41M2125	114.38
● NI10-M18-AP6X-H1141	10	18	PNP	200	4-pin eurofast	41M3662	102.20
NI10-M18-AN6X-H1141	10	18	NPN	200	4-pin eurofast	41M3661	105.32
● NI10-G18SK-AP6X2	10	18	PNP	200	Terminal Chamber	41M3660	123.87
NI10-G18SK-AN6X2	10	18	NPN	200	Terminal Chamber	41M3659	123.87
● NI10-G18-AP6X 50MM	10	18	PNP	200	2m Cable	41M3658	102.20
NI10-G18-AN6X 50MM	10	18	NPN	200	2m Cable	41M3837	102.20
● NI14-M18-AP6X	14	18	PNP	200	2 m Cable	41M3684	111.04
NI14-M18-AN6X	14	18	NPN	200	2 m Cable	41M3682	111.04
● NI14-M18-AP6X-H1141	14	18	PNP	200	4-pin eurofast	41M3685	111.04
NI14-M18-AN6X-H1141	14	18	NPN	200	4-pin eurofast	41M3683	111.04
● BI10-G30-AP6X	10	30	PNP	200	2 m Cable	41M2142	105.32
BI10-G30-AN6X	10	30	NPN	200	2 m Cable	41M2141	105.32

➔ CONTINUED ➔

4-30 MM BARREL DC INDUCTIVE PROXIMITY SENSORS 3-WIRE (CONT.)

Mfg. Part No.	Sensing Distance (mm)	Sensing Face Dia. (mm)	Output Type	Max. Load Current (mA)	Termination	Stock No.	Price Each
● BI10-M30-AP6X-H1141	10	30	PNP	200	4-pin eurofast	41M2151	105.32
BI10-M30-AN6X-H1141	10	30	NPN	200	4-pin eurofast	41M2150	105.32
● BI10-G30SK-AP6X2	10	30	PNP	200	Terminal Chamber	41M2147	124.94
BI10-G30SK-AN6X2	10	30	NPN	200	Terminal Chamber	41M2146	124.94
BI15-M30-AP6X	15	30	PNP	200	2 m Cable	41M2170	114.38
BI15-M30-AN6X	15	30	NPN	200	2 m Cable	41M2168	111.04
BI15-M30-AP6X-H1141	15	30	PNP	200	4-pin eurofast	41M2171	114.38
BI15-M30-AN6X-H1141	15	30	NPN	200	4-pin eurofast	41M2169	114.38
● NI15-G30-AP6X	15	30	PNP	200	2 m Cable	41M3691	102.20
NI15-G30-AN6X	15	30	NPN	200	2 m Cable	41M3690	102.20
● NI15-M30-AP6X-H1141	15	30	PNP	200	4-pin eurofast	41M3697	102.20
NI15-M30-AN6X-H1141	15	30	NPN	200	4-pin eurofast	41M3696	102.20
● NI15-G30SK-AP6X2	15	30	PNP	200	Terminal Chamber	41M3693	124.94
NI15-G30SK-AN6X2	15	30	NPN	200	Terminal Chamber	41M3692	124.94
NI20-M30-AP6X	20	30	PNP	200	2 m Cable	41M3717	114.38
NI20-M30-AN6X	20	30	NPN	200	2 m Cable	41M3715	111.04
NI20-M30-AP6X-H1141	20	30	PNP	200	4-pin eurofast	41M3718	111.04
NI20-M30-AN6X-H1141	20	30	NPN	200	4-pin eurofast	41M3716	111.04

(113752)

8-30 MM UPROX+ BARREL DC INDUCTIVE PROXIMITY SENSORS 3-WIRE

TURCK
WORKS
Industrial Automation

EG Barrel with Potted-In Cable



EG Barrel with Quick Disconnect



M Barrel with Potted-In Cable

Features:

- Choice of Barrel with Potted-In Cable or M8 (picofast), M12 (eurofast) Quick Disconnect
- Short-Circuit and Overload Protected Incorporated
- Reverse Polarity and Wire-Break Protection
- LED Indicator: Output Energized and Short-Circuit Warning
- Normally Open Output

Specifications:

- Environmental rating: NEMA 1, 3, 4, 4x, 6, 13; IP67
- Operating temperature: -13°F to 158°F
- Continuous load current: 200mA
- Voltage drop: 1.8VDC at 200mA
- Input voltage: 10-30VDC



M Barrel with Quick Disconnect

Mfg. Part No.	Sensing Distance (mm)	Sensing Face Dia. (mm)	Output Type	Termination	Stock No.	Price Each
● BI 2U-EG08-AP6X	2	8	PNP	2m Cable	99M0983	101.92
● BI 2U-EG08-AN6X	2	8	NPN	2m Cable	99M0980	101.92
● BI 2U-EG08-AP6X-V1131	2	8	PNP	3-pin picofast	99M0985	101.92
● BI 2U-EG08-AN6X-V1131	2	8	NPN	3-pin picofast	03P2076	114.66
● BI 2U-EG08-AP6X-H1341	2	8	PNP	4-pin eurofast	99M0984	101.92
● BI 2U-EG08-AN6X-H1341	2	8	NPN	4-pin eurofast	99M0981	101.92
● NI 6U-EG08-AP6X	6	8	PNP	2m Cable	99M1023	127.81
● NI 6U-EG08-AN6X	6	8	NPN	2m Cable	99M1020	127.81
● NI 6U-EG08-AP6X-V1131	6	8	PNP	3-pin picofast	99M1025	127.81
● NI 6U-EG08-AN6X-V1131	6	8	NPN	3-pin picofast	99M1022	127.81
● NI 6U-EG08-AP6X-H1341	6	8	PNP	4-pin eurofast	99M1024	127.81
● NI 6U-EG08-AN6X-H1341	6	8	NPN	4-pin eurofast	99M1021	127.81
BI 4U-M12-AP6X	4	12	PNP	2m Cable	99M0989	85.12
BI 4U-M12-AN6X	4	12	NPN	2m Cable	99M0986	85.12
BI 4U-M12-AP6X-V1131	4	12	PNP	3-pin picofast	99M0991	85.12
BI 4U-M12-AN6X-V1131	4	12	NPN	3-pin picofast	99M0988	85.12
BI 4U-M12-AP6X-H1141	4	12	PNP	4-pin eurofast	99M0990	85.12

➔ CONTINUED ➔

SENSORS – PROXIMITY

8-30 MM UPROX+ BARREL DC INDUCTIVE PROXIMITY SENSORS
3-WIRE (CONT.)

Mfg. Part No.	Sensing Distance (mm)	Sensing Face Dia. (mm)	Output Type	Termination	Stock No.	Price Each
BI 4U-M12-AN6X-H1141	4	12	NPN	4-pin eurofast	99M0987	85.12
NI 10U-M12-AP6X	10	12	PNP	2m Cable	99M1003	85.12
NI 10U-M12-AN6X	10	12	NPN	2m Cable	99M1000	85.12
NI 10U-M12-AP6X-V1131	10	12	PNP	3-pin picofast	99M1005	85.12
NI 10U-M12-AN6X-V1131	10	12	NPN	3-pin picofast	99M1002	85.12
NI 10U-M12-AP6X-H1141	10	12	PNP	4-pin eurofast	99M1004	85.12
NI 10U-M12-AN6X-H1141	10	12	NPN	4-pin eurofast	99M1001	85.12
BI 8U-M18-AP6X	8	18	PNP	2m Cable	99M0996	99.68
BI 8U-M18-AN6X	8	18	NPN	2m Cable	99M0994	99.68
BI 8U-M18-AP6X-H1141	8	18	PNP	4-pin eurofast	99M0997	99.68
BI 8U-M18-AN6X-H1141	8	18	NPN	4-pin eurofast	99M0995	99.68
NI 15U-M18-AP6X	15	18	PNP	2m Cable	99M1008	99.68
NI 15U-M18-AN6X	15	18	NPN	2m Cable	99M1006	99.68
NI 15U-M18-AP6X-H1141	15	18	PNP	4-pin eurofast	99M1009	99.68
NI 15U-M18-AN6X-H1141	15	18	NPN	4-pin eurofast	99M1007	99.68
BI 15U-M30-AP6X	15	30	PNP	2m Cable	99M0975	99.68
BI 15U-M30-AN6X	15	30	NPN	2m Cable	99M0973	114.24
BI 15U-M30-AP6X-H1141	15	30	PNP	4-pin eurofast	99M0976	99.68
BI 15U-M30-AN6X-H1141	15	30	NPN	4-pin eurofast	99M0974	99.68
NI 30U-M30-AP6X	30	30	PNP	2m Cable	99M1016	99.68
NI 30U-M30-AN6X	30	30	NPN	2m Cable	99M1014	99.68
NI 30U-M30-AP6X-H1141	30	30	PNP	4-pin eurofast	99M1017	99.68
NI 30U-M30-AN6X-H1141	30	30	NPN	4-pin eurofast	99M1015	99.68

(113758)

12-30 MM BARREL AC/DC
INDUCTIVE PROXIMITY
SENSORS - 2-WIRE

G Barrel with Quick Disconnect



G Barrel with Potted-In Cable

Specifications:

- Environmental rating: NEMA 1, 3, 4, 6, 13; IP67
- Operating temperature: -13°F to 158°F;
- Voltage drop: 6.0 VDC at Full Rated Current
- Max. Leakage Current: 1.7 mA
- Input voltage: 20-250 VAC, 10-300 VDC
- Max. Load Current: AC 400mA, DC 300mA
- Output type: AC/DC

Features:

- Choice of Barrel with Potted-In Cable or 7/8-16 (minifast) or 1/2-20 (microfast) Quick Disconnect
- Short-Circuit and Overload Protected
- LED Indicator: Output Energized, Short-Circuit and Power-On (For M12 Only Output Energized)

Mfg. Part No.	Sensing Distance (mm)	Sensing Face Dia. (mm)	Max. Load Current (mA, AC/DC)	Termination	Stock No.	Price Each
BI 4-G12-ADZ32X	4	12	400/300	2 m Cable	41M2074	145.55
● BI4-G12-ADZ32X-B3131	4	12	400/300	3-pin micofast	41M2075	141.27
NI 8-G12-ADZ32X	8	12	400/300	2 m Cable	41M3635	145.55
NI 8-G12-ADZ32X-B3131	8	12	400/300	3-pin micofast	41M3636	145.55
● BI 8-G18-ADZ30X2	8	18	400/300	2 m Cable	41M2122	141.27
● BI 8-G18-ADZ30X2-B3331	8	18	400/300	3-pin micofast	41M2123	141.27
● NI14-G18-ADZ30X2	14	18	400/300	2 m Cable	41M3678	145.55
● NI14-G18-ADZ30X2-B3331	14	18	400/300	3-pin micofast	41M3679	145.55
● BI15-G30-ADZ30X2	15	30	400/300	2 m Cable	41M2166	153.48
● BI15-G30-ADZ30X2-B3131	15	30	400/300	3-pin micofast	41M2167	153.48
● NI20-G30-ADZ30X2	20	30	400/300	2 m Cable	41M3710	153.48
● NI20-G30-ADZ30X2-B3131	20	30	400/300	3-pin micofast	41M3712	148.98

(113754)

RECTANGULAR DC CAPACITIVE
PROXIMITY SENSORS 3-WIRE

Q08



QF5.5

Features:

- Short-Circuit and Overload Protected Incorporated
- Choice of Potted-In Cable or M8 (picofast) Quick Disconnect Termination
- Reverse Polarity and Wire Break Protection
- LED Indicator: Output Energized and Power On
- Normally Open Output

Specifications:

- Environmental rating: NEMA 1, 3, 4, 6, 13; IP67
- Operating temperature: -13°F to 158°F
- Continuous load current: 200mA
- Voltage drop: 1.8VDC at 200mA
- Input voltage: 10-30VDC

Turck's compensation electrode technology prevents false triggers. In practice, sensors can be effected by water droplets, humidity, dust, etc., causing false outputs. To combat this effect, each Turck capacitive sensor incorporates a compensating electrode which forms part of a negative feedback circuit. When contaminants are on the sensor face, they affect the sensor's main field, as well as its compensation field. The negative feedback circuit detects the increase in both fields and can filter out the effect of contaminants.

Mfg. Part No.	Sensing Range (mm)	Output Type	Termination	Stock No.	1-9	10-24
● BC 5-Q08-AP6X2	5	PNP	2 m Cable	41M2205	134.63	128.47
BC 5-Q08-AN6X2	5	NPN	2 m Cable	41M2203	134.63	128.47
● BC 5-Q08-AP6X2-V1131	5	PNP	3-pin picofast	41M2206	134.63	128.47
BC 5-Q08-AN6X2-V1131	5	NPN	3-pin picofast	41M2204	134.63	128.47
● BC10-QF5.5-AP6X2	10	PNP	2 m Cable	41M2214	102.61	97.91
● BC10-QF5.5-AN6X2	10	NPN	2 m Cable	41M2212	102.61	97.91
● BC10-QF5.5-AP6X2/S250	10	PNP	2 m Cable	41M2215	87.18	83.19
● BC10-QF5.5-AN6X2/S250	10	NPN	2 m Cable	03P2075	102.57	94.59

Part number with suffix S250 has no potentiometer
(113760)

RECTANGULAR DC
INDUCTIVE PROXIMITY
SENSORS - 3 AND 4-WIRE

Q08



Q10S



Features:

- Choice of Potted-In Cable or M8 (picofast), M12 (eurofast) Quick Disconnect
- Short-Circuit and Overload Protected
- Reverse Polarity and Wire Break Protection
- LED Indicator: Output Energized and Power On (Both on Q08 and CK40 only)
- Normally Open or Complementary Output (1 N.O. and 1 N.C.)

Specifications:

- Environmental rating: NEMA 1, 3, 4, 6, 13; IP67
- Operating temperature: -13°F to 158°F; Except BI 7 +32°F to 140°F
- Continuous load current: 200mA
- Voltage drop: 1.8VDC at 200mA
- Input voltage: 10-30VDC
- Max. load current: 200mA

Turck Q-pak sensors are changing the shape of sensing. They fit in confined sensing areas where other sensors won't work their superior 2-50 mm ranges in packages up to 10 times narrower than the competition.

Mfg. Part No.	Sensing Distance (mm)	Sensing Face Dia. (mm)	Output Type	Termination	Stock No.	Price Each
● BI 5-Q08-AP6X2-V1131	5	8	PNP, NO	3-pin picofast	41M2110	103.78
BI 5-Q08-AN6X2-V1131	5	8	NPN, NO	3-pin picofast	41M2109	103.78
● BI 5-Q08-VP6X2	5	8	PNP, NO/NC	2 m Cable	41M2112	103.78
● BI 5-Q08-VN6X2	5	8	NPN, NO/NC	2 m Cable	41M2111	103.78
● BI 7-Q08-VP6X2	7	8	PNP, NO/NC	2 m Cable	41M2121	103.78
● BI 7-Q08-VN6X2	7	8	NPN, NO/NC	2 m Cable	41M2120	103.78
● BI 2-Q10S-AP6X	2	10	PNP, NO	2 m Cable	41M2064	76.15
● BI 2-Q10S-AN6X	2	10	NPN, NO	2 m Cable	41M2063	76.15
BI 5U-Q12-AP6X2-H1141	5	12	PNP, NO	4-pin eurofast	99M0993	92.11
BI 5U-Q12-AN6X2-H1141	5	12	NPN, NO	4-pin eurofast	99M0992	92.11

(113753)

SENSORS – PROXIMITY

LIMIT SWITCH STYLE UPROX+ DC
INDUCTIVE PROXIMITY SENSORS - 4-WIRE

Features:

- Multi-Position Sensor Head (9 Positions)
- Short-Circuit and Overload Protection Incorporated
- Reverse Polarity and Wire-Break Protection
- LEDs Indicate: Output Energized and Power-On
- Complementary Output (1 N.O. and 1 N.C.)

Specifications:

- Environmental rating: NEMA 1, 3, 4, 6, 13; IP67
- Operating temperature: -13°F to 158°F
- Continuous load current: 200mA
- Voltage drop: 1.8VDC at 200mA
- Input voltage: 10-65VDC



Eliminate limit switch failure with long-range **combiprox** sensors. Up to 40 mm range with 9 sensing positions, weld-field immunity and extended temperature range, with the enhanced benefits of **Uprox** technology senses all metals at the same rated sensing distance.

Mfg. Part No.	Sensing Range (mm)	Output Type	Termination	Stock No.	Price Each	
					1-9	10-24
BI15U-CP40-VP4X2	15	PNP, NO/NC	Terminal Chamber	41M2177	161.72	154.07
BI15U-CP40-VN4X2	15	NPN NO/NC	Terminal Chamber	41M2176	161.72	154.07
NI50U-CP40-VP4X2	50	PNP, NO/NC	Terminal Chamber	41M3747	174.05	165.82
NI50U-CP40-VN4X2	50	NPN NO/NC	Terminal Chamber	41M3746	174.05	165.82

(113759)

LIMIT SWITCH STYLE DC INDUCTIVE
PROXIMITY SENSORS - 4-WIRE

Features:

- Multi-Position Sensor Head (9 Positions)
- Short-Circuit and Overload Protection Incorporated
- Reverse Polarity and Wire-Break Protection
- LEDs Indicate: Output Energized and Power-On
- Complementary Output (1 N.O. and 1 N.C.)

Specifications:

- Environmental rating: NEMA 1, 3, 4, 6, 13; IP67
- Operating temperature: -13°F to 158°F
- Continuous load current: 200mA
- Voltage drop: 1.8VDC at 200mA
- Input voltage: 10-65VDC



Eliminate limit switch failure with long-range **combiprox** sensors. Up to 40 mm range with 9 sensing positions, weld-field immunity and extended temperature range.

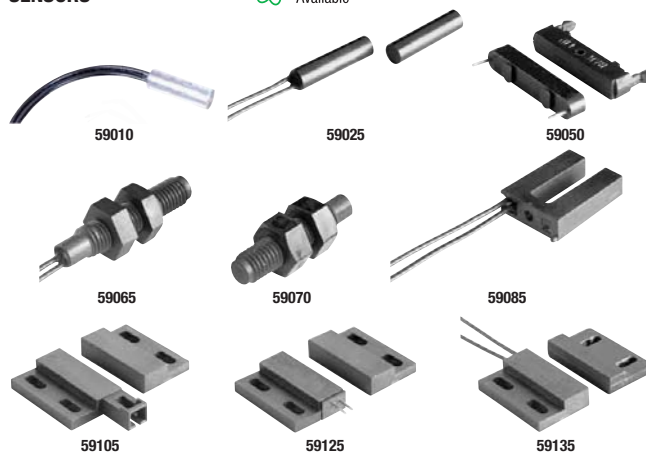
Mfg. Part No.	Sensing Range (mm)	Output Type	Termination	Stock No.	Price Each	
					1-9	10-24
BI15-CP40-VP4X2	15	PNP, NO/NC	Terminal Chamber	41M2165	169.86	162.09
BI15-CP40-VN4X2	15	NPN NO/NC	Terminal Chamber	41M2164	169.86	162.09
● NI35-CP40-VP4X2	35	PNP, NO/NC	Terminal Chamber	99M1027	204.57	195.21
● NI35-CP40-VN4X2	35	NPN NO/NC	Terminal Chamber	99M1026	204.57	195.21

(113755)

MAGNETIC SENSORS

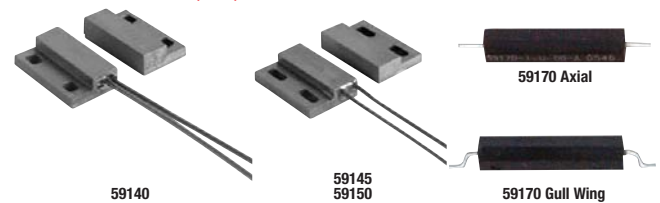


HAMLIN



➤ CONTINUED ➤

MAGNETIC SENSORS (CONT.)



- Initial contact resistance: 0.200Ω
- Typical operating time: 1.00ms
- Operating and storage temperature: -40°C to +105°C

- Shock without misoperation: 100Gs, 11ms, 1/2 sine wave

RECOMMENDED ACTIVATING POSITIONS

Sensor contacts are activated by an approaching magnetic actuator or selected magnet and released as it is withdrawn. Sensors are connected in series with the load. No additional power is required for operation. They are unaffected by any non-ferrous material placed between sensor and actuator. Contacts are hermetically sealed for protection from hostile environments. Operating Characteristics: Typical operate time: 1ms. Operation and storage temperature: -40°C to +105°C. Shock without false operation: 50G's 11ms, 1/2 sine wave. Typical life @ 5Vdc, 10 ma, 50x10⁶. **59150 series** are identical to **59145 series** except leads exit from opposite ends of package. Notes: **59085 series** contains both sensor and magnet. Actuation is obtained by inserting a ferrous vane between them. Operate and release positions depend on thickness of vane. (See position B.) **59050 series** PINS 0.0185D x 0.130"L, 0.8" spacing. **59125 series** terminals 0.025", 0.240"L, 0.100" spacing. **Mfg. part no. 59135-12"** Flying leads, 20 AWG, 19 x 32 teflon-insulat 200°C, 300V, UL 1180. All others-12" Flying leads, 24 AWG, 1/2 PVC, 105°C, UL 1430 or UL 1569, 59135 Series CSA certified. **59030** and **59050 series** are not UL listed.

SPST-NO CONTACTS

Mfg. Part No.	Must Operate Distance (Inches)	Contact Power Max. (W)	Switching Voltage/Current (Volts/A)	Matching Actuator	Sensor Stock No.	Price Each 1-9
● 59010-1-S-02-A*	0.23	10	170/0.5	...	89K7537	14.11
● 59010-1-T-02-A*	0.17	10	170/0.5	...	89K7538	14.11
● 59025-010*	0.15	10	200/0.5	● 57025-000	05M4561	3.15
● 59025-020*	0.15	10	300/0.5	● 57025-000	05M4562	3.61
● 59050-010	0.075	10	200/0.5	● 57050-000	89F1394	1.55
● 59065-010	0.15	10	200/0.5	● 57065-000	05M4565	4.11
● 59065-020*	0.15	10	300/0.5	● 57065-000	19M8515	4.38
● 59070-010	0.15	10	200/0.5	● 57070-000	05M4567	4.11
● 59070-020*	0.15	10	300/0.5	● 57070-000	05M4568	4.38
● 59085-010	0.1	5	175/0.25	...	05M4570	9.86
● 59105-010	0.15	10	200/0.5	● 57105-000	05M4573	4.75
● 59105-020*	0.15	10	300/0.5	● 57105-000	05M4574	5.42
● 59125-010	0.15	10	200/0.5	● 57125-000	05M4575	4.16
● 59125-020*	0.15	10	300/0.5	● 57125-000	05M4576	4.75
● 59135-010	0.35	10	200/0.5	● 57135-000	05M4577	6.80
● 59135-020*	0.35	10	300/0.5	● 57135-000	05M4578	7.19
● 59140-010	0.175	10	200/0.5	● 57140-000	05M4580	3.20
● 59140-020*	0.175	10	300/0.5	● 57030-000	05M4581	3.85
● 59145-010	0.225	10	200/0.5	● 57145-000	05M4584	3.36
● 59145-020*	0.225	10	300/0.5	● 57145-000	05M4585	4.01
● 59150-010	0.225	10	200/0.5	● 57150-000	17M8454	3.40
● 59150-020*	0.225	10	300/0.5	● 57150-000	05M4588	4.01
● 59170-1-S-00-A	0.295	10	200/0.5	...	89K7540	2.13
● 59170-1-T-00-A	0.256	10	200/0.5	...	89K7543	2.13
● 59170-1-U-00-A	0.197	10	200/0.5	...	89K7546	2.13
● 59170-1-S-00-C	0.295	10	200/0.5	...	89K7541	2.13
● 59170-1-T-00-C	0.256	10	200/0.5	...	89K7544	2.13
● 59170-1-U-00-C	0.197	10	200/0.5	...	89K7547	2.13
● 59170-1-S-00-D	0.295	10	200/0.5	...	89K7542	1.27
● 59210-020	...	10	250/0.5	● 57140-000	05M4590	6.53

SPST-NC CONTACTS

● 59025-040*	0.15	5	175/0.25	● 57025-000	05M4563	4.99
● 59065-040	0.15	5	175/0.25	● 57065-000	05M4566	5.52
● 59085-040	0.1	5	200/0.5	...	05M4572	6.93
● 59140-040	0.175	5	175/0.25	● 57140-000	05M4583	5.30
● 59145-040	0.225	5	175/0.25	● 57145-000	05M4587	5.36

SPDT-CO CONTACTS

● 59025-030*	0.15	5	175/0.25	● 57025-000	17M8453	5.27
● 59030-030	0.150	10	175/0.25	● 57030-000	05M4564	5.83
● 59050-030	0.075	5	175/0.25	● 57050-000	50F7991	4.75
● 59065-030	0.15	5	175/0.25	● 57065-000	11M1788	5.86
● 59070-030	0.15	5	175/0.25	● 57070-000	05M4569	5.86
● 59085-030	0.1	5	175/0.25	...	05M4571	10.41
● 59135-030	0.35	5	175/0.25	● 57135-000	10M9205	8.62
● 59140-030	0.175	5	175/0.25	● 57140-000	05M4582	5.64
● 59145-030	0.225	5	175/0.25	● 57145-000	05M4586	5.61
● 59150-030	0.225	5	175/0.25	● 57150-000	05M4589	5.46

Series 59085 contains both sensor and magnet. Actuation is obtained by inserting a ferrous vane between them. Operate and release positions depend on thickness of vane. **NO** = Normally Open; **NC** = Normally Closed; **CO** = Changeover.

* High Voltage (5217)

SENSORS – TEMPERATURE

T-GAGE M18T ANALOG SERIES
INFRARED TEMPERATURE SENSORS

Features:

- Non-contact
- Fast 75ms response
- Easy-to-use TEACH mode programming
- No potentiometer adjustments
- Small, self-contained package, no external controller needed
- Does not require product motion for sensing
- Remote TEACH available in static and dynamic TEACH
- Alarm output to indicate signal maximum
- Programmable positive or negative analog slope: The sensor establishes the 0V output condition with the first taught condition and 10V with the second taught condition. It automatically scales between these 2 conditions. Minimum taught differential is 10°C

TEMPERATURE SENSORS

Mfg. Part No.	D:S Ratio	Cable	Sensing Face	Stock No.	Price Each
M18TUP14	14:1	5-wire, 2m shielded cable	Germanium Lens	93K6141	317.00
M18TUP14Q	14:1	5-pin, Euro-style integral QD	Germanium Lens	93K6142	317.00
M18TUP8	8:1	5-wire, 2m shielded cable	Integrated Lens	93K6145	307.00
M18TUP8Q	8:1	5-pin, Euro-style integral QD	Integrated Lens	93K6146	307.00
M18TUP6E	6:1	5-wire, 2m shielded cable	Enclosed Plastic Face	93K6143	307.00
M18TUP6EQ	6:1	5-pin, Euro-style integral QD	Enclosed Plastic Face	93K6144	307.00

QUICK-DISCONNECT CABLES

Mfg. Part No.	Description	Length (m)	Stock No.	Price Each
MQDEC2-515	5-pin Euro-Style Straight, with shield	5	21H2313	33.81

BRACKETS

Mfg. Part No.	Description	Stock No.	Price Each
SMB18A	Right-angle mounting bracket	02H7579	3.18
SMB18SF	One-piece swivel bracket	02H7580	7.40

(148872)

PYROPEN HANDHELD
INFRARED THERMOMETERS

Just Added



The ultra compact Pyropen has been specifically designed to fit into your pocket, just like a pen, so that you can carry it with you anywhere you go. You simply aim, press the SCAN button and read the temperature immediately. The non-contact nature of the measurement means that you can take the temperature of moving, rotating, inaccessible or hazardous objects. **Mfg. part no. PYROPEN L** has all the features of **mfg. part no. PYROPEN E**, plus laser sighting for small or distant targets and adjustable emissivity. **Mfg. part no. PYROPEN U** has all the features of **mfg. part no. PYROPEN L**, plus a built-in memory for logging up to 100 temperatures and the ability to perform PC based data acquisition.

Mfg. Part No.	Data Logging and Acquisition	Laser Sighting	Emissivity	Accuracy	Stock No.	Price Each
PYROPEN E	No	No	0.95	+/-1%	29K6567	179.00
PYROPEN L	No	Yes	0.3 to 1.0	+/-1%	29K6568	219.00
PYROPEN U	Yes	Yes	0.3 to 1.0	+/-1%	10R5146	269.00

(84664)

New
products
added
weekly

(148886)

See the newest products,
technologies and suppliers
on our website.

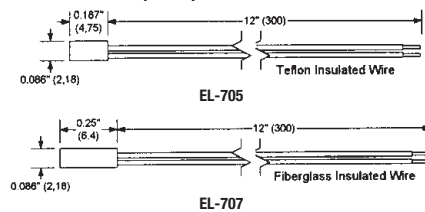
PYROCUPLE SERIES
NON-CONTACT INFRARED
TEMPERATURE SENSORS

- 4-20mA or thermocouple outputs
- Stainless steel construction
- Wide temperature range
- High accuracy and repeatability: 1%/1° accuracy
- Response time: 240ms
- Optional water/air cooled jacket (-WJ)

The **PyroCouple** series are high quality low cost, miniature sensors which measure the temperature of inaccessible or moving objects and materials. **PyroCouple** sensors with 2 wire transmit the target temperature as a 4-20mA output. **PyroCouple** sensors with 4 wires transmit the target temperature as a thermocouple plus the sensor internal temperature as a 4-20mA output.

Mfg. Part No.	Field-of View	Temperature Range	Output	Stock No.	Price Each
● PC21MT-0	2:1	0°C to 250°C	4-20mA	01N3766	209.00
● PC21MT-0-WJ	2:1	0°C to 250°C	4 - 20mA	01N3767	439.00
● PC21MT-3	2:1	0°C to 250°C	J thermocouple	01N3768	229.00
● PC21MT-4	2:1	0°C to 250°C	K thermocouple	01N3769	229.00
● PC151MT-0-WJ	10:1	0°C to 250°C	4 to 20mA	01N3763	479.00
● PC151MT-3	10:1	0°C to 250°C	J thermocouple	01N3764	269.00

(114867)

CYLINDRICAL WIRE LEADED
PLATINUM RESISTANCE
TEMPERATURE DETECTORS (RTDs)

Small cylindrical ceramic bodies are designed for drill holes and probe assemblies. Applications include HVAC room, duct and refrigerant equipment, temperature compensation in instrument and probe assemblies, and temperature regulation in process control. RTD type: 1000Ω/375 Alpha or 100Ω/385 Alpha. Interchangeability: ±0.1% (±0.3°C) or ±0.2% (±0.5°C) @ 0°C. Temperature range: -200°C to +260°C, Teflon®; -75°C to +540°C fiberglass. **EL-705** have Teflon® insulated wire; **EL-707** have fiberglass insulated wire.

Mfg. Part No.	Resistance @ 0°C	Resistance Inter-changeability	Temperature Coefficient of Resistance* 0-100°C	Stock No.	Price Each
● HEL-705-U-0-12-00	1000Ω	±0.2%	3.75Ω/°C	91F7129	26.05
● HEL-705-U-1-12-00	1000Ω	±0.1%	3.75Ω/°C	15M0243	25.21
● HEL-705-T-0-12-00	100Ω	±0.2%	0.385Ω/°C	15M0242	44.30
● HEL-707-U-0-12-00	1000Ω	±0.2%	3.75Ω/°C	15M0245	34.16
● HEL-707-U-1-12-00	1000Ω	±0.1%	3.75Ω/°C	15M0246	33.01
● HEL-707-T-0-12-00	100Ω	±0.2%	0.385Ω/°C	15M0244	62.27

*Average TCR (15645)

HIGH PERFORMANCE
PLATINUM RESISTANCE
TEMPERATURE TRANSMITTERS

Just Added



- Proven platinum 100 ohm sensor
- Maximum reliability
- Wide variety of temperature ranges and connections
- Quick reaction time
- Accuracy: Class B (+/- 0.5% Full Scale)
- Output signals: 4 mA to 20 mA 2-wire
- Power supply: 12 Vdc to 30 Vdc
- Stem diameter: 6mm

The NOSHOK Series 800 temperature transmitter provides an unbeatable level of performance at an economical price. Using the proven reliability and stability of 100 ohm platinum resistance technology, this transmitter offers a broad array of choices for the OEM and user alike. A rigorous test and inspection process is performed on all NOSHOK temperature transmitters prior to shipment to further ensure 100% "out of the box" reliability.

Mfg. Part No.	Temperature Range	Stem Length (inch)	Stock No.	Price Each
800-40/120-1-1-8-8-040-6	-40/120 °F	4	39P8259	192.91
800-40/120-1-1-8-8-060-6	-40/120 °F	6	39P8260	198.56
800-40/120-1-1-8-8-090-6	-40/120 °F	9	39P8261	200.47
800-25/125-1-1-8-8-040-6	25/125 °F	4	39P8256	192.91
800-25/125-1-1-8-8-060-6	25/125 °F	6	39P8257	198.56

➤ CONTINUED ➤

SENSORS – TEMPERATURE • THERMOCOUPLES

HIGH PERFORMANCE PLATINUM RESISTANCE TEMPERATURE TRANSMITTERS (CONT.)

Mfg. Part No.	Temperature Range	Stem Length (inch)	Stock No.	Price Each
800-25/125-1-1-8-8-090-6	25/125 °F	9	39P8258	200.47
800-0/140-1-1-8-8-040-6	0/140 °F	4	39P8246	192.91
800-0/140-1-1-8-8-060-6	0/140 °F	6	39P8248	198.56
800-0/140-1-1-8-8-090-6	0/140 °F	9	39P8249	200.47
800-0/200-1-1-8-8-040-6	0/200 °F	4	39P8250	192.91
800-0/200-1-1-8-8-060-6	0/200 °F	6	39P8251	198.56
800-0/200-1-1-8-8-090-6	0/200 °F	9	39P8252	200.47
800-20/240-1-1-8-8-040-6	20/240 °F	4	39P8253	192.91
800-20/240-1-1-8-8-060-6	20/240 °F	6	39P8254	198.56
800-20/240-1-1-8-8-090-6	20/240 °F	9	39P8255	200.47
800-50/300-1-1-8-8-040-6	50/300 °F	4	39P8262	192.91
800-50/300-1-1-8-8-060-6	50/300 °F	6	39P8263	198.56
800-50/300-1-1-8-8-090-6	50/300 °F	9	39P8264	200.47
800-50/500-1-1-8-8-040-6	50/500 °F	4	39P8265	192.91
800-50/500-1-1-8-8-060-6	50/500 °F	6	39P8266	198.56
800-50/500-1-1-8-8-090-6	50/500 °F	9	39P8267	200.47
800-0/1000-1-1-8-8-040-6	0/1000 °F	4	39P8243	192.91
800-0/1000-1-1-8-8-060-6	0/1000 °F	6	39P8244	198.56
800-0/1000-1-1-8-8-090-6	0/1000 °F	9	39P8245	200.47

(136947)

ELECTRONIC INDICATING TEMPERATURE SWITCH/ TRANSMITTERS

- Wide variety of temperature ranges
- Compact dimensions
- Cost effective
- Service-friendly
- Simple handling
- Single Output: 4 mA to 20 mA
- Working Pressure: 6mm Stem Diameter; 600 psi
- Power Supply: 12 Vdc to 30 Vdc
- Switch Function: 1 N.C. or N.C. Switch-PNP
- Stem Diameter: 6mm



NOSHOK

Just Added CE

The NOSHOK 850 Temperature Switch measures and displays temperature and has one or two switching outputs as well as an optional analog output. The temperature set points, reset points, switching functions and the measuring range of the optional analog output are simple to adjust via two buttons. All these features and measuring range between -300°F and 1100°F (-200°C and 600°C) cover the majority of temperature measuring and switching tasks. Different process connections, which are also available as adjustable screw connections, underline the versatility of the NOSHOK 850 Series. For fast response times a version with tapered stem is also available. All wetted parts as well as the housing are made of stainless steel. The housing and the replaceable measuring insert are screwed together. This allows the exchange of the measuring insert without opening the connection to the process.

Mfg. Part No.	Temperature Range	Stem Length (inch)	Stock No.	Price Each
850-2-2-50/400-2-040-6	-50/400 °F	4	39P8274	484.86
850-2-2-50/400-2-060-6	-50/400 °F	6	39P8275	490.51
850-2-2-50/400-2-090-6	-50/400 °F	9	39P8276	492.42
850-2-2-50/750-2-040-6	-50/750 °F	4	39P8277	537.98
850-2-2-50/750-2-060-6	-50/750 °F	6	39P8278	543.63
850-2-2-50/750-2-090-6	-50/750 °F	9	39P8279	551.54
850-2-2-50/1100-2-040-6	-50/1100 °F	4	39P8271	537.98
850-2-2-50/1100-2-060-6	-50/1100 °F	6	39P8272	543.63
850-2-2-50/1100-2-090-6	-50/1100 °F	9	39P8273	551.54
850-2-2-300/1100-2-040-6	-300/1100 °F	4	39P8268	595.71
850-2-2-300/1100-2-060-6	-300/1100 °F	6	39P8269	601.36
850-2-2-300/1100-2-090-6	-300/1100 °F	9	39P8270	603.27

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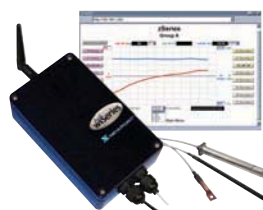
ZED-X-P HIGH POWER WIRELESS SENSORS

- Temperature
- Humidity
- Barometric Pressure
- Email Alarms
- Web Server
- No Special Software Required

The rugged high-performance, high power NEWPORT® wiSeries wireless sensors zED-x-P series are compatible with the NEWPORT zSeries and wiSeries system for Web-based

NEW TECHNOLOGY

NEWPORT®



➤ CONTINUED ➤

ZED-X-P HIGH POWER WIRELESS SENSORS (CONT.)

monitoring of Temperature, Humidity, and Barometric Pressure. The radio is a High Power IEEE 802.15.4 compliant transmitter operating at 2.4 GHz designed to transmit over greater distances and through more obstructions than the standard transmitter. These wireless sensors transmit up to 1000m (3280')--without obstructions or interferences to a zSeries coordinator or wiSeries meter-controller. The coordinators and controllers connect directly to an Ethernet network and the Internet and serve active Web Pages to display and chart the data. You can monitor and record Temperature, Relative Humidity, and Barometric Pressure over an Ethernet network or the Internet without any special software--just your Web Browser. You can even set alarms to be notified by email. Alarms can be sent to a single user or to a group distribution list, including text messages to cell phones.

Mfg. Part No.	Description	Stock No.	Price Each
ZED-TP1-P	Wireless Temperature Sensor w/ Stick Probe, ac powered	05R8827	195.00
ZED-TP2-P	Wireless Temperature Sensor w/ Lug Mount Probe, ac powered	05R8828	195.00
ZED-THP-P	Wireless Temperature and Humidity Sensor, ac powered	05R8826	240.00
ZED-BTP-P	Wireless Barometric Pressure and Temp. Sensor, ac powered	05R8825	245.00
ZCDR	Coordinator, which can support up to thirty-two (32) end devices / Sensors	05R8824	195.00

(147130)

NMP MINIATURE CONNECTORS GLASS-FILLED NYLON WITH 220°C (425°F) SERVICE TEMPERATURE

NEW TECHNOLOGY

NEWPORT®



- Glass-Filled Nylon
- Heavy Duty Construction
- Color-Coded
- Accepts Stranded or Solid Wire up to Size 20 AWG

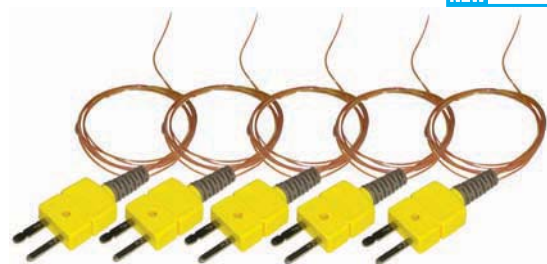
Mfg. Part No.	Shell Color	Type	Stock No.	Price Each
NMP-K-F	Yellow	K	26C1260	...
NMP-K-M/N	Yellow	K	11J4036	2.20
NMP-T-F/N	Blue	T	21J8663	2.55
NMP-T-M/N	Blue	T	96B0570	2.20
NMP-J-F/N	Black	J	09J3806	2.20
NMP-J-M/N	Black	J	05R5273	2.20

(147107)

5LRTC, 5SRTC SERIES READY-MADE INSULATED THERMOCOUPLES, SUBMINIATURE CONNECTORS WITHOUT SPOOL CAP

NEWPORT®

NEW TECHNOLOGY



- PFA Insulated Wire has Max Service Temp of 260°C (500°F)
- Glass Braid Insulated Wire has Max Service Temp of 480°C (900°F)
- Kapton® Insulated Wire has Max Service Temp of 316°C (600°F)
- Max Service Temp for Connector Body 220°C (425°F)

Made from special limits of error wire. Also available in T and E calibrations. Longer length available.

5LRTC SERIES

Mfg. Part No.	Insulation	AWG	Stock No.	Price Each
5LRTC-GG-J-20-36	Glass Braid	20	05R5202	58.00
5LRTC-GG-K-20-36	Glass Braid	20	05R5204	58.00
5LRTC-GG-J-24-36	Glass Braid	24	05R5203	52.00
5LRTC-GG-K-24-36	Glass Braid	24	05R5205	52.00
5LRTC-TT-J-20-36	PFA	20	05R5208	69.00
5LRTC-TT-K-24-36	PFA	24	05R5209	58.00
5LRTC-KK-J-20-36	Kapton	20	05R5206	90.00
5LRTC-KK-K-20-36	Kapton	20	05R5207	90.00

➤ CONTINUED ➤

THERMOCOUPLES

5LRTC, 5SRTC SERIES READY-MADE INSULATED THERMOCOUPLES, SUBMINIATURE CONNECTORS WITHOUT SPOOL CAP (CONT.)

5SRTC SERIES

Mfg. Part No.	Insulation	AWG	Stock No.	Price Each
				Each
5SRTC-GG-J-20-36	Glass Braid	20	05R5210	54.00
5SRTC-GG-K-20-36/N	Glass Braid	20	73P7392	54.00
5SRTC-GG-J-24-36	Glass Braid	24	05R5211	48.00
5SRTC-GG-K-24-36	Glass Braid	24	05R5212	48.00
5SRTC-TT-J-20-36	PFA	20	05R5214	65.00
5SRTC-TT-K-24-36/N	PFA	24	30M9423	54.00
5SRTC-TT-K-20-36/N	PFA	20	24C5051	69.75
5SRTC-KK-K-20-36	Kapton	20	05R5213	86.00

(147105)

MPJ SERIES MINIATURE PANEL JACKS

Features

- Compact Size
- Easy Mount
- Accessible Terminal Screws
- Color-Coded
- Rated 220°C (425°F)
- Accepts Newport's as well as all Industry Standard Miniature Male Connectors

The MPJ Miniature Panel Jack requires less than half of the panel area required by the standard size version. A simple push-on clip is all that is required to retain the connector in a rectangular cutout, or the optional MSS snap strip can be used to mount a row. Angled terminal screws allow wiring to be done after panel assembly.

Mfg. Part No.	Description	Stock No.	Price Each
			1-9
MPJ-K-F/N	Type K, Yellow	50B5904	2.50
MPJ-T-F/N	Type T, Blue	07C7675	2.50
MPJ-J-F/N	Type J, Black	07C7674	2.50
MPJ-E-F/N	Type E, Purple	05R5248	2.92

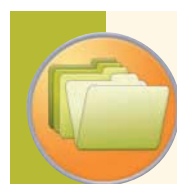
(147106)

ULTRA HIGH TEMPERATURE THERMOCOUPLE CONNECTORS RATED TO 560°C (1200°F)

High Purity Alumina body connectors used for high temperature Thermocouple connections. Extra heavy-duty construction, color dot coded for applications such as high vacuum furnaces where contamination would adversely affect the process. Available in types J (iron-constantan), K (chromel-alumel) and T (copper-constantan). Types E, R, S, G, C, D, U and N are available upon request. Type SHX connector is miniature flat pin. Type NHX connector is standard size round pins.

Mfg. Part No.	T/C Type	Connector	Stock No.	Price Each
				Each
SHX-K-M/N	K	Male	48F5069	5.50
SHX-K-F/N	K	Female	48F5070	6.50
SHX-J-M/N	J	Male	48F5071	5.50
SHX-J-F/N	J	Female	48F5072	6.50
SHX-T-M/N	T	Male	05R5316	7.13
SHX-T-F/N	T	Female	05R5315	8.42
NHX-K-M	K	Male	72C8638	8.88
NHX-K-F	K	Female	72C8637	7.77
NHX-J-M/N	J	Male	48F5079	8.00
NHX-J-F/N	J	Female	48F5080	7.00
NHX-T-M/N	T	Male	05R5314	12.63
NHX-T-F/N	T	Female	05R5313	11.34

(147108)



(148881)

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TRANSITION ADAPTORS/CONNECTORS

NEW TECHNOLOGY



- Rugged, One-Piece Molded Construction
- ANSI Color-Coded
- For Use with a Variety of Meters and Probes



TAS adaptors provide quick and easy connections between standard and miniature connector systems. These color-coded units are available in all thermocouple calibrations including Tungsten-Rhenium alloys. Any combination of male and female contacts for miniature and standard positions of the adaptor are available.

Mfg. Part No.	Description	T/C Type	Stock No.	Price Each
				1-9
TAS-K-1	Male standard to male mini	K	57K6584	5.55
TAS-J-1	Male standard to male mini	J	08J4320	5.55
TAS-K-2	Female standard to male mini	K	04H0807	5.55
TAS-J-2	Female standard to male mini	J	04H0809	5.55
TAS-K-3	Male standard to female mini	K	25H8355	5.55
TAS-J-3	Male standard to female mini	J	78H4240	5.55
TAS-K-4	Female standard to female mini	K	54H4029	5.55
TAS-J-4	Female standard to female mini	J	08J4323	5.55
TAS-U-5	Male banana plug to female mini	Uncompensated	95B8685	5.55
TAS-U-6	Sheathed banana plug to banana plug	Uncompensated	05R5144	6.48
TAS-U-7	Sheathed banana plug to banana plug set	Uncompensated	05R5145	6.48

(147109)

INDUSTRIAL THERMOCOUPLES

NEWPORT®



The NB industrial style Thermocouple assembly is offered as 12" stainless-steel sheath probe with Cast Iron protection head (NB1), terminal block and 1/2" NPT threaded connection. Types J (iron-constantan) and K (chromel-alumel). "G" in type number denotes grounded junction; "U" in type number denotes ungrounded junction. Also available in T and E. Other head assemblies: NB2 Aluminium or NB4 Sub-Minature Aluminium. Go online or call for other lengths and head assemblies.

Mfg. Part No.	T/C Type	Dia.	Stock No.	Price Each
				1-4
NB1-ICSS-14G-12/N	J	1/4"	93F9276	65.80
NB1-ICSS-14U-12/N	J	1/4"	93F9278	68.60
NB1-CASS-18G-12/N	K	1/8"	93F9279	58.80
NB1-CASS-14G-12/N	K	1/4"	93F9280	65.80
NB1-CASS-18U-12/N	K	1/8"	93F9263	59.40
NB1-CASS-14U-12	K	1/4"	93F9264	66.15

(6611)

TRANSITION JOINT THERMOCOUPLE ASSEMBLIES NEWPORT®

12" stainless-steel sheath probes are available in Types J (iron-constantan) and K (chromel-alumel). Types T and E available upon request. Grounded junction is standard. Ungrounded and exposed junctions and various lengths are available; go online or call.

Mfg. Part No.	T/C Type	Dia.	Stock No.	Price Each
				Each
JTSS-116G-12/N	J	1/16"	98B2698	19.00
JTSS-18G-12/N	J	1/8"	93F9288	19.00
JTSS-14G-12/N	J	1/4"	93F9289	19.00
KTSS-116G-12/N	K	1/16"	93F9272	19.00
KTSS-18G-12/N	K	1/8"	93F9273	19.00
KTSS-14G-12/N	K	1/4"	93F9274	19.00

(6612)

THERMOCOUPLES

EXTRUDER THERMOCOUPLES



2" stainless-steel probe with 1/4" NPT compression fitting (allow 1" for compression fitting) for measuring temperature in processing machinery at die, barrel, crosshead, or pipewall. Probe comes with 60" of armored cable, 3/16" dia., 1/4" NPT brass compression fitting, spade lugs, termination and grounded junction. Available in Types J (iron-constantan) and K (chromel-alumel). Types T and E are available upon request.



Mfg. Part No.	T/C Type	Probe Length	Stock No.	Price Each
				1-4
CF000J2601/N	J	2"	93F9265	28.77
CF000K2601/N	K	2"	93F9266	29.61
CF000J4601/N	J	4"	93F9267	34.25
CF000K4601/N	K	4"	93F9268	29.61

(6616)

INSULATED THERMOCOUPLES



- 36" Length Stripped-End
- Type J: Iron-Constantan; Type K: Chromel-Alumel
- "TT" in Mfg. Part No.: Teflon Insulation; "GG": Glass Braid Insulation
- Sold in Packages of 5

Mfg. Part No.	T/C Type	AWG	Stock No.	Price per Pkg.
				1-4
5TC-TT-K-24-36/N	K	24	93F9309	52.65
5TC-TT-K-30-36/N	K	30	93F9310	59.40
5TC-TT-J-24-36/N	J	24	93F9311	52.65
5TC-TT-J-30-36/N	J	30	93F9312	61.60
5TC-GG-K-24-36/N	K	24	93F9313	46.20
5TC-GG-K-30-36/N	K	30	93F9314	46.20
5TC-GG-J-24-36/N	J	24	93F9315	46.20
5TC-GG-J-30-36/N	J	30	93F9316	46.20

(6615)

FAST RESPONSE THERMOCOUPLES



7

Self-adhesive thermocouples are designed for fast temperature measurements. Manufactured from 30AWG Teflon-coated thermocouple wire with a flattened bead secured between a high-temperature polymer and a high-temperature, fiber-reinforced polymer for thermal conductivity and fast response. Sold in packages of 5.



Mfg. Part No.	T/C Type	Stock No.	Price per Pkg.
			1-4
SA1-J/N	J	12K5541	81.00
SA1-K/N	K	66F5598	81.00
SA1-E/N	E	48F5576	78.60
SA1-T/N	T	48F5577	78.60

(36976)

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Product
Training

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(148857)

QUICK-DISCONNECT ASSEMBLIES

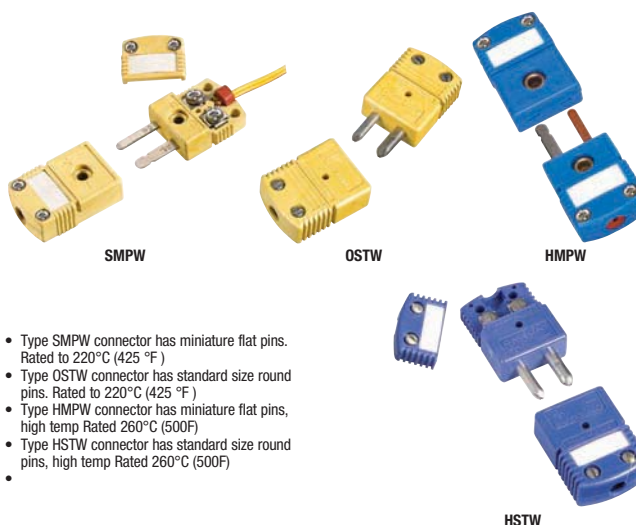


12" stainless-steel sheath probe assemblies with standard size male connector molded directly onto the probe. Available in Types J (iron-constantan) and K (chromel-alumel). Types T and E available upon request. Standard size female mating connector included. Grounded junction is standard. Ungrounded and exposed junctions, as well as other lengths, are available; go online or call.

Mfg. Part No.	T/C Type	Dia.	Stock No.	Price Each
				1-4
JQSS-116G-12/N	J	1/16"	93F9281	31.02
JQSS-18G-12/N	J	1/8"	93F9282	32.43
KQSS-14G-12/N	J	1/4"	93F9283	38.07
KQSS-116G-12/N	K	1/16"	93F9284	31.02
KQSS-18G-12/N	K	1/8"	93F9285	32.43

(6613)

THERMOCOUPLE CONNECTORS



- Type SMPW connector has miniature flat pins. Rated to 220°C (425 °F)
- Type OSTW connector has standard size round pins. Rated to 220°C (425 °F)
- Type HMPW connector has miniature flat pins, high temp Rated 260°C (500F)
- Type HSTW connector has standard size round pins, high temp Rated 260°C (500F)

Color Coded, Glass-filled nylon shell connectors used for accurate thermocouple connections. Available in types J (iron-constantan), K (chromel-alumel) and T (copper-constantan). Types E,R,S,G,C,D,U and N are available upon request.

Mfg. Part No.	T/C Type	Connector	Stock No.	Price Each
				1-4
SMPW-K-M/N	K	Male	50B5932	2.49
SMPW-K-F/N	K	Female	93B0462	3.20
SMPW-J-M/N	J	Male	20C5613	2.49
SMPW-J-F/N	J	Female	20C3726	3.20
SMPW-T-F/N	T	Female	05C3547	2.50
OSTW-K-M	K	Male	08J4424	3.61
OSTW-K-F/N	K	Female	91B2051	4.89
OSTW-J-M/N	J	Male	19C9787	2.50
OSTW-J-F/N	J	Female	73P7373	3.78
OSTW-T-M/N	T	Male	53K6283	3.61
OSTW-T-F/N	T	Female	53K6290	3.78
HMPW-K-F/N	K	Female	89C1914	3.48
HSTW-K-M	K	Male	72C9334	2.72
HSTW-K-F/N	K	Female	88M3224	4.00

(6614)

CIRCUIT BOARD THERMOCOUPLE CONNECTORS



- Attaches Directly to Circuit Board
- Perfect for Handheld Thermometers
- J, K, T and E Calibrations
- Optional Retainer Clip for Transistor Providing Cold Junction Compensation
- Accepts Either Standard or Miniature Size Male Connectors



Mfg. Part No.	Description	Stock No.	Price Each
			1-2
PCC-OST-J	OST Standard Size, Type J	01H0900	3.20
PCC-OST-E	OST Standard Size, Type E	01H0899	3.20

➤ CONTINUED ➤

THERMOCOUPLES • SENSORS – THERMOSTATS

CIRCUIT BOARD THERMOCOUPLE CONNECTORS (CONT.)

Mfg. Part No.	Description	Stock No.	Price Each
			1-2
PCC-SMP-J	SMP Miniature Size, Type J	01H0904	3.15
PCC-SMP-K	SMP Miniature Size, Type K	01H0905	2.56
PCC-SMP-T	SMP Miniature Size, Type T	01H0906	3.20
PCC-SMP-E	SMP Miniature Size, Type E	01H0903	3.20

(73334)

THERMOCOUPLE WIRE

Insulated Thermocouple offered in Teflon or Glass insulation. Available in Types J (iron-constantan) and K (chromel-alumel) and T (copper-constantan). SLE (Special Limits of Error Wire). Other Insulation, Types, Lengths and Gauges are available; go online or call.



NEWPORT®

Mfg. Part No.	AWG	T/C Type	Insulation	Length	Stock No.	Price Each
						1-4
TT-K-20-25/N	20	K	Teflon®	25	93F9302	40.61
TT-K-24-25/N	24	K	Teflon®	25	93F9303	30.13
TT-K-24-500/N	24	K	Teflon®	500	83H6214	185.00
TT-K-30-SLE-500	30	K	Teflon®	500	78H4663	185.00
GGK2025/N	20	K	Glass	25	93F9304	35.62
GGK2425/N	24	K	Glass	25	93F9305	26.03
TT-J-20-25/N	20	J	Teflon®	25	93F9306	37.99
TTJ-20-100N	20	J	Teflon®	100	51B611	82.00
TT-J-24-25/N	24	J	Teflon®	25	93F9307	27.51
GG-J-20-25/N	20	J	Glass	25	51B582	41.82
GGJ2425/N	24	J	Glass	25	93F9291	20.85
TT-T-24-SLE-100	24	T	Teflon®	P100	81H2001	65.00
TT-T-30-SLE-1000	30	T	Teflon®	1000	59K9467	430.00

(8610)

THERMOCOUPLE WIRE - DUPLEX EXTENSION GRADE

NEW TECHNOLOGY

NEWPORT®

- Insulated Thermocouple offered in Neoflon PFA and Polyvinyl
- Available in Types J (iron-constantan) K (chromel-alumel) and T (copper-constantan).



Other Insulation, Types, Lengths and Gauges are available; Go online or call

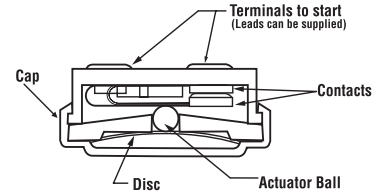
Mfg. Part No.	AWG	T/C Type	Insulation	Length (ft.)	Stock No.	Price Each
						Each
EXTT-J-16-25/N	16	J	Neoflon PFA	25	05R4108	66.00
EXTT-J-20-500/N	20	J	Neoflon PFA	500	97H2717	176.70
EXTT-J-24-25/N	24	J	Neoflon PFA	25	05R4109	28.49
EXTT-K-16-25/N	16	K	Neoflon PFA	25	69H6721	62.00
EXTTK20500/N	20	K	Neoflon PFA	500	91B0860	223.20
EXTT-K-20-100	20	K	Neoflon PFA	100	96B8240	78.12
EXTT-K-24-25/N	24	K	Neoflon PFA	25	05R4110	34.97
EXTT-T-16-100/N	16	T	Neoflon PFA	100	05R4111	190.00
EXTT-T-20-25/N	20	T	Neoflon PFA	25	05R4112	36.26
EXTT-T-24-25/N	24	T	Neoflon PFA	25	05R4113	29.79
EXPP-J-16-25/N	16	J	Polyvinyl	25	05R4106	34.97
EXPP-J-20-50/N	20	J	Polyvinyl	50	39C5258	22.00
EXPP-K-16-25/N	16	K	Polyvinyl	25	05R4107	49.00
EXPP-K-20-100	20	K	Polyvinyl	100	30C4289	...
EXPP-K-24S-1000	24 STRANDED	K	Polyvinyl	1000	39K4425	445.00
EXPP-K-20-50/N	20	K	Polyvinyl	50	01C8395	44.00
EXPP-K-20-1000	20	K	Polyvinyl	1000	24C8815	440.00

(147095)

5003 SERIES
THERMAL SWITCHES

AIRPAX

- Overall Depth: 0.250" (Without Projecting Terminals)
- Contact Rating for 100,000 Life Cycles: 6A Resistive, 120VAC, 3A Resistive, 240VAC
- Temperature Settings: +35°F to +325°F



Thin, lightweight, water-type thermal switches, for use when space is at a premium. The basic switch assembly is operated by a bimetal disc with positive, reinforced snap-action. Excellent shock and vibration resistance. Dielectric: 1500Vrms, 60Hz, 1min. Terminals to case. Loads under 100mA. 5VDC will require gold-plated contacts, with recommended minimum load of 10mA, 5VDC. UL recognized to 130°C operating temperature. CSA certified to 168°C.

CLOSE ON RISE CONTACT OPERATION

Mfg. Part No.	Operating Temp. Min. (°F)	Operating Temp. Max. (°F)	Stock No.	Price Each		
				1-9	10-24	25-49
● C53GAB105A-090Y	90	105	34C8787	21.59	19.41	18.32
● C53GAB115A-100Y	100	115	34C8788	21.59	19.41	18.32
● C53GAB120A-105Y	105	120	34C8789	21.59	19.41	18.32
● C53GAB175A-160Y	160	175	34C8790	21.59	19.41	18.32
● C53GAB195A-180Y	180	195	34C8791	21.59	19.41	18.32

OPEN ON RISE CONTACT OPERATION

● O53GAB120A-105Y	105	120	34C9058	21.59	19.41	18.32
● O53GAB140A-125Y	125	140	34C9059	21.59	19.41	18.32
● O53GAB165A-150Y	150	165	34C9060	21.59	19.41	18.32
● O53GAB175A-160Y	160	175	34C9061	21.59	19.41	18.32
● O53GAB195A-180Y	180	195	34C9062	21.59	19.41	18.32
● O53GAB210B-185Y	185	210	34C9063	21.59	19.41	18.32
● O53GAB250A-225Y	225	250	34C9064	21.59	19.41	18.32
● O53GAB265B-240Y	240	265	73C3788	21.59	19.41	18.32

(69343)

SNAP-ACTION DISC
THERMOSTATS

STANCOR®

- Automatic Reset
- 3/4" Quick-Connect Terminals
- 1/2" Bimetal Disc Thermostat
- Loose Ring
- Stainless Steel Mtg. Bracket
- Load Rating: 15A @ 120V, 10A @ 240V
- UL recognized, CSA certified, VDE approved #40012575
- 1.23" L x 1.32" Case W x 0.37" H and 2 Holes .145" Dia.

Positive, instantaneous opening or closing of electrical circuits. All have differential of 30°F, except mfg. part no. ST0-60, which has a differential of 20°F and ST0-85 and ST0-175, which have a differential of 15°F.



Mfg. Part No.	Set Point	Function	Stock No.	Price Each		
				1-9	10-24	25-49
● ST0-60	60°F ±5°F	Opens	16M4628	5.64	5.08	4.70
● ST0-110	110°F ±5°F	Opens	16M4630	5.64	5.08	4.70
● ST0-120	120°F ±5°F	Opens	16M4631	5.64	5.08	4.70
● ST0-140	140°F ±5°F	Opens	16M4632	5.64	5.08	4.70
● ST0-150	150°F ±5°F	Opens	16M4633	5.64	5.08	4.70
● ST0-160	160°F ±5°F	Opens	16M4634	5.64	5.08	4.70
● ST0-170	170°F ±5°F	Opens	16M4635	5.64	5.08	4.70
● ST0-175	175°F ±5°F	Opens	16M4636	6.00	5.44	5.00
● ST0-190	190°F ±5°F	Opens	97F7515	5.74	5.18	4.77
● ST0-210	210°F ±6°F	Opens	16M4637	6.00	5.44	5.00
● STC-100	100°F ±7°F	Closes	16M4626	5.74	5.18	4.77
● STC-120	120°F ±7°F	Closes	46F6507	5.64	5.08	4.70
● STC-140	140°F ±7°F	Closes	46F6509	5.64	5.08	4.70

(4004)



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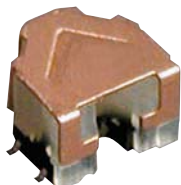
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SENSORS – TILT • SENSORS – ULTRASONIC • SENSORS – VISION LIGHTING

SURFACE MOUNT
TILT SENSOR

- Detects tilting over range of 45 to 75 degrees in right and left inclination
- Gull wing surface mount terminals
- Wide operating temperature range: -10° to 60°C
- Lead-free contacts

Ideal for PDAs, cell phones and test equipment, digital cameras and video cameras to change aspect ratio automatically. Also replaces mercury switches in portable space heaters and game machines such as pinball games. Output current: ±1mA. Current consumption: 20µA max. Product is sold as tape on reel.

OMRON
ELECTRONIC COMPONENTS


Mfg. Part No.	Operation Angle	Output Voltage (VDC)	Operating Voltage (VDC)	Stock No.	Price Each	
					1-24	25-49
● D6B-2P	45° - 75°	0.5	2.7 - 3.3	21K6447	4.29	4.06

(83798)

WORLD-BEAM QS18U
ULTRASONIC SENSORS

Features:

- Fast, easy-to-use TEACH-mode programming; no potentiometer adjustments
- Ultra-compact, rugged housing for harsh environments
- Two bi-colored LEDs
- Temperature compensation
- Fast response time: 15ms
- Supply protection: Protected against reverse polarity and transient voltages

Specification:

- Sensing range: 50 to 500mm (2" to 20")
- Supply voltage: 12 to 30Vdc
- Temperature range: -20°C to +60°C (-4°F to +140°F)
- Leakproof design rated IEC IP67, NEMA6P, or DIN40050 (depending on model)

Low cost, compact ultrasonic sensor for harsh environments in the versatile WORLD-BEAM standing housing. Ideal when the sensing target is made of clear or transparent materials, or the target surface varies.


BANNER
more sensors, more solutions


ULTRASONIC SENSORS

Mfg. Part No.	TEACH Options	Cable Termination	Output	Stock No.	Price Each	
					1-9	
QS18UNA	Integral pushbutton or remote TEACH	4-wire, shielded cable, 2m	NPN	69K7353	107.82	
QS18UPA			PNP	69K7357	107.82	
QS18UNAQ8		4-pin integral Euro-style QD	NPN	69K7356	107.82	
QS18UPAQ8			PNP	69K7360	107.82	
QS18UNAE	Remote TEACH	4-wire, shielded cable, 2m	NPN	69K7354	107.82	
QS18UPAE			PNP	69K7358	107.82	
QS18UNAEO8		4-pin integral Euro-style QD	NPN	69K7355	107.82	
QS18UPAEO8			PNP	69K7359	107.82	

QUICK DISCONNECT CABLES

Mfg. Part No.	Length	Description	Stock No.	Price Each	
				1-9	
MQDEC2-406	2m	Straight, 4-pin Euro-style	34K8137	24.32	
MQDEC2-406RA	2m	Right-angle, 4-pin Euro-style	34K8138	24.32	
MQDEC2-415	5m	Straight, 4-pin Euro-style	34K8139	31.71	
MQDEC2-415RA	5m	Right-angle, 4-pin Euro-style	34K8140	31.71	

MOUNTING BRACKETS

Mfg. Part No.	Description	Stock No.	Price Each	
			1-9	
SMB18UR	2-piece universal 18mm swivel bracket, stainless steel	21H8816	14.80	
SMBQS18RA*	Right-angle bracket, stainless steel	35K0496	4.23	
SMB18A	12-gauge, stainless steel right-angle bracket, clearance for M4 (#8) hardware	02H7579	3.18	
SMB18SF	18mm swivel bracket, black thermoplastic polyester with stainless steel hardware	02H7580	7.40	

* Integral QD models must mount to the "outside" to allow clearance (87031)



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(148833)

S18U —
18mm BARREL
ULTRASONIC
SENSORS
BANNER
more sensors, more solutions


Straight Housing

Right Angle Housing

- Fast, easy-to-use TEACH-Mode programming; no potentiometer adjustments
- Short dead zone
- Two bi-colored status LEDs
- Rugged encapsulated design for harsh environments
- Wide operating range of -20°C to +60°C (-4°F to +140°F)
- Temperature compensation
- 10 to 30V dc operation

S18UB series is configurable for normally open or normally closed operation and has a fast response time (5 milliseconds). S18UI and S18UU series has a scalable output that automatically distributes the output signal over the width of the programmed sensing window and has selectable response times of 2.5 or 30 ms.

Mfg. Part No.	Connection	Output Type	Housing	Stock No.	Price Each
S18UBA	5-wire, 2 m (6.5') cable	NPN/PNP	Straight	99H2741	202.16
S18UBAQ	5-pin Euro-style QD	NPN/PNP	Straight	86H7371	202.16
S18UBAR	5-wire, 2 m (6.5') cable	NPN/PNP	Right Angle	99H2743	213.87
S18UBARQ	5-pin Euro-style QD	NPN/PNP	Right Angle	99H2745	213.87
S18UIA	5-wire, 2 m (6.5') cable	4 - 20mA	Straight	99H2746	258.56
S18UIAQ	5-pin Euro style QD	4 - 20mA	Straight	99H2748	258.56
S18UIAR	5-wire, 2 m (6.5') cable	4 - 20mA	Right Angle	99H2749	269.20
S18UIARQ	5-pin Euro style QD	4 - 20mA	Right Angle	99H2751	269.20
S18UUA	5-wire, 2 m (6.5') cable	0 - 10VDC	Straight	99H2752	258.56
S18UUAQ	5-pin Euro style QD	0 - 10VDC	Straight	99H2754	258.56
S18UIAR	5-wire, 2 m (6.5') cable	0 - 10VDC	Right Angle	99H2755	269.20
S18UUAQ	5-pin Euro style QD	0 - 10VDC	Right Angle	99H2757	269.20

(148723)

HIGH-INTENSITY (IP50)
LINEAR ARRAY LIGHTS

- High-power, solid-state LED array (290mm in length)
- 5-pin Euro-style (M12) male connection
- Continuous or strobed operation is selectable via hookup
- Optically isolated strobe signal
- Selectable Active High or Active Low strobe option
- Lens angle of 10°
- Black anodized aluminum housing w/ glass window


BANNER
more sensors, more solutions

Just Added

Mfg. Part No.	LED Color	Stock No.	Price Each
LEDILA290XG5-XQ	Infrared	10R5338	723.52
LEDRLA290XG5-XQ	Red	10R5340	723.52
LEDBLA290XG5-XQ	Blue	10R5334	723.52
LEDGLA290XG5-XQ	Green	10R5336	723.52
LEDWLA290XG5-XQ	White	10R5342	723.52

(148651)

HIGH-INTENSITY (IP68)
AREA LIGHTS

Just Added

BANNER
more sensors, more solutions


- Rugged, waterproof housing, rated IEC IP68
- Compact area light for PresencePLUS and other Vision systems
- Five extremely bright LEDs with adjustable intensity for illumination of targets from 0.15 meters to beyond 2 meters
- Smooth exterior for easy cleaning during washdown
- Optically isolated strobe signal
- Nickel-plated aluminum housing w/ glass window
- Selectable Active High or Active Low strobe option

➤ CONTINUED ➤

SENSORS – VISION LIGHTING

HIGH-INTENSITY (IP68) AREA LIGHTS (CONT.)

Mfg. Part No.	LED Color	Stock No.	Price Each
LEDIA70AG4-PQ	Infrared	10R5337	706.50
LEDRA70AG4-PQ	Red	10R5339	706.50
LEDBA70AG4-PQ	Blue	10R5333	706.50
LEDGA70AG4-PQ	Green	10R5335	706.50
LEDWA70AG4-PQ	White	10R5341	706.50

CABLE ASSEMBLIES

Mfg. Part No.	Connector Type A	Connector Type B	Length (m)	Stock No.	Price Each
MQDC20-515	Straight Female Euro-style (M12)	Flying Leads	5	10R5343	38.31

(148652)

IP67 SURFACE MOUNT LED SPIDER LIGHTS

Just Added



Dome Type

Flat Type

Features:

- Screw mounting on panels surfaces, aluminum frames and walls
- Slim design well suited for installation in small space
- Excellent visibility from the front and side
- Legends and symbols can be printed on marking film for flat type
- Red/Green two-color alternate illumination available and 1m, 3m, and 5m cables available; [go online or call](#)

Specifications:

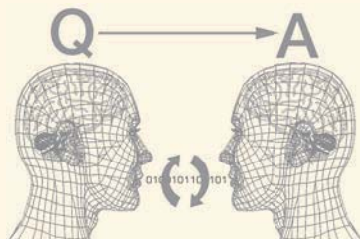
- Rated voltage 24VAC/DC
- Rated current: 17mA
- Max. current draw: 0.6W (25 mA)
- LED lamp life: 50,000 hours
- IP67 rated

Mfg. Part No.	Shape	Rated Voltage	Cable Length (m)	Color	Stock No.	Price Each
LH1D-D2HQ4C10-A	Dome	24VAC/DC	1	Amber	05R5518	63.00
LH1D-D2HQ4C10-G	Dome	24VAC/DC	1	Green	05R5519	63.00
LH1D-D2HQ4C10-PW	Dome	24VAC/DC	1	Cool White	05R5520	63.00
LH1D-D2HQ4C10-Y	Dome	24VAC/DC	1	Red	05R5521	63.00
LH1D-D2HQ4C10-RG	Dome	24VAC/DC	1	Red/Green	05R5522	73.50
LH1D-D2HQ4C10-S	Dome	24VAC/DC	1	Blue	05R5523	63.00
LH1D-D2HQ4C10-W	Dome	24VAC/DC	1	Warm White	05R5524	63.00
LH1D-D2HQ4C10-Y	Dome	24VAC/DC	1	Yellow	05R5525	63.00
LH1D-H2HQ4C10-A	Flat	24VAC/DC	1	Amber	05R5526	68.25
LH1D-H2HQ4C10-G	Flat	24VAC/DC	1	Green	05R5527	68.25
LH1D-H2HQ4C10-PW	Flat	24VAC/DC	1	Cool White	05R5528	68.25
LH1D-H2HQ4C10-R	Flat	24VAC/DC	1	Red	05R5529	68.25
LH1D-H2HQ4C10-RG	Flat	24VAC/DC	1	Red/Green	05R5530	78.75
LH1D-H2HQ4C10-S	Flat	24VAC/DC	1	Blue	05R5531	68.25
LH1D-H2HQ4C10-W	Flat	24VAC/DC	1	Warm White	05R5532	68.25
LH1D-H2HQ4C10-Y	Flat	24VAC/DC	1	Yellow	05R5533	68.25

(147142)

Expert technical support

Chat online to our team of engineers, or connect to them through your representative.



Make it easy. Make it fast. Make it Newark.

(148839)

LUMIFA LED LIGHTING

Just Added



LF1A Series (IP40)

LF1A-D2F Series (IP67f)



LF1B Series (IP54)



LF9Z Mounting Brackets

- Energy saving: One-third of fluorescent lamps
- Long life: Five times more than fluorescent lamps
- Vibration and shock resistant
- Voltage rating: 24V DC

These environmentally-friendly light units pay for themselves, you recoup their cost with savings over time. Perfect for narrow areas, those not easily accessible or that are dangerous to access, these LEDs have a minimum lifespan of 40,000 hours. Once it's installed, customers won't have to worry about maintenance issues for a long time! Plus these LED light strips provide a bright light source while producing very little heat (even less than a fluorescent lamp). IP40 degree of protection. IP67f protection water, dust and oil resistant. Stainless steel front bezel. Oil and heat resistant cable. IP54 degree of protection water and dust resistant.

LF1A SERIES (IP40)

Mfg. Part No.	Length (mm)	LEDs	Color	Power Rating (W)	Stock No.	Price Each
LF1A-A1-2THWW6	120	3 LEDs x 2 rows	Cool White	1.8	14P9703	400.00
LF1A-A1-2TLWW6	120	3 LEDs x 2 rows	Warm White	1.8	14P9704	700.00
LF1A-A1-2SHY8	120	3 LEDs x 2 rows	Yellow	2.2	14P9702	700.00
LF1A-A1-2SHR8	120	3 LEDs x 2 rows	Red	2.2	14P9701	700.00
LF1A-B1-2THWW6	180	6 LEDs x 2 rows	Cool White	3.6	14P9707	500.00
LF1A-B1-2TLWW6	180	6 LEDs x 2 rows	Warm White	3.6	14P9708	500.00
LF1A-B1-2SHY8	180	6 LEDs x 2 rows	Yellow	4.4	14P9706	500.00
LF1A-B1-2SHR8	180	6 LEDs x 2 rows	Red	4.4	14P9705	500.00
LF1A-D1-2THWW6	300	12 LEDs x 2 rows	Cool White	7.2	14P9711	700.00
LF1A-D1-2TLWW6	300	12 LEDs x 2 rows	Warm White	7.2	14P9712	700.00
LF1A-D1-2SHY8	300	12 LEDs x 2 rows	Yellow	8.7	14P9710	700.00
LF1A-D1-2SHR8	300	12 LEDs x 2 rows	Red	8.7	14P9709	700.00

LF1A-D2F SERIES (IP67F)

LF1A-D2F-2THWW6	247	8 LEDs x 3 rows	White	7.2	14P9713	900.00
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LF1B SERIES (IP654)

LF1B-A3S-2THWW4	134	3 LEDs X 1 row	Transparent	0.8	14P9714	150.00
LF1B-A4S-2THWW4	134	3 LEDs X 1 row	White	0.8	14P9715	150.00
LF1B-B3S-2THWW4	210	6 LEDs X 1 row	Transparent	1.5	14P9716	200.00
LF1B-B4S-2THWW4	210	6 LEDs X 1 row	White	1.5	14P9717	200.00
LF1B-C3S-2THWW4	330	12 LEDs X 1 row	Transparent	2.9	14P9718	300.00
LF1B-C4S-2THWW4	330	12 LEDs X 1 row	White	2.9	14P9719	300.00
LF1B-D3S-2THWW4	580	24 LEDs X 1 row	Transparent	5.8	14P9720	500.00
LF1B-D4S-2THWW4	580	24 LEDs X 1 row	White	5.8	14P9721	500.00

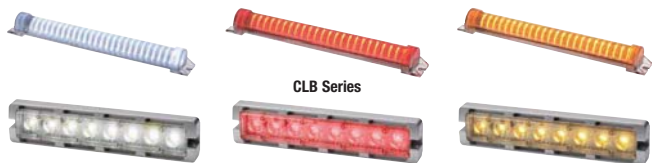
LF SERIES MOUNTING ACCESSORIES

Mounting angle can be adjusted from 0 degree to 90 degrees, at an interval of 10 degrees, thus providing increased mounting flexibility.

Mfg. Part No.	For Use With	Stock No.	Price Each
LF9Z-1MA1	LF1A Series	14P9723	60.00
LF9Z-1MA01	LF1A-D2F Series	14P9722	70.00
LF9Z-1MB1	LF1B Series	14P9724	50.00

(136209)

SENSORS – VISION LIGHTING • SENSORS – CABLE ASSEMBLIES

SUPER
BRIGHT LED
LIGHT BAR**PATLITE**

The CLB-24N LED Bar Light provides longer life LED lighting with lower power consumption and less heat generation than conventional fluorescent lamps. The CLF Series is an LED work light that comes in various lengths. The CLM-24 super bright LED work light is resistant to weather, dust, oil and water.



CLM Series

CLB SERIES LED WORKLIGHTS

Mfg. Part No.	Color	Voltage	Length	Stock No.	Price Each	
					1-4	
● CLB-24N1-C	White	24 VDC	100	08N3401	192.98	
● CLB-24N1-R	Red	24 VDC	100	08N3402	153.36	
● CLB-24N1-Y	Yellow	24 VDC	100	08N3403	153.36	
● CLB-24N2-C	White	24 VDC	200	08N3404	238.99	
● CLB-24N2-R	Red	24 VDC	200	08N3405	207.04	
● CLB-24N2-Y	Yellow	24 VDC	200	08N3406	207.04	
● CLB-24N-C	White	24 VDC	332	08N3398	153.36	
● CLB-24N-R	Red	24 VDC	332	08N3399	249.21	
● CLB-24N-Y	Yellow	24 VDC	332	08N3400	249.21	

CLF SERIES LED WORKLIGHTS

● CLF10-24-C	White	24V AC/DC	100	08N3407	264.55
● CLF10-24-R	Red	24V AC/DC	100	08N3408	251.77
● CLF10-24-Y	Yellow	24V AC/DC	100	08N3409	256.88
● CLF20-24-C	White	24V AC/DC	200	08N3410	413.97
● CLF20-24-R	Red	24V AC/DC	200	08N3411	359.12
● CLF20-24-Y	Yellow	24V AC/DC	200	08N3412	398.74

CLB SERIES LED WORKLIGHTS

Mfg. Part No.	Color	Voltage	Diameter	Stock No.	Price Each	
					1-4	
● CLM-24	White	24 VDC	85	08N3413	318.44	

(115574)

SINGLE KEYWAY MICRO-CHANGE® MOLDED AND ATTACHABLE CONNECTORS

**Woodhead**
A Division of molex**BRADHARRISON**
From Daniel Woodhead Company

Straight Male Receptacle



Straight Female Receptacle



Single-Ended Cordsets



Field Attachable

- Current Rating, 4A
- Designed for 12mm and 18mm sensor applications

- Field attachable
- IP68; NEMA 6 watertight rating

Used with 12 and 18mm tubular proximity sensors, tubular photoelectric sensors, and modular controls. Mechanically-keyed mating parts eliminate mismatching. Diameter, 0.57" and length, 1.84". Rated 4A, 300V. Oil-resistant, PVC jacketed cable. UL listed, CSA certified. Meets NEMA enclosure Type 6 and IEC enclosure IP68.

SINGLE KEYWAY CONNECTORS (DC)

CORDSETS WITH MOLDED CONNECTOR AND PIGTAIL

Mfg. Part No.	Connector	Poles	Cable Length	Stock No.	Price Each
● 803000A09M050	Female-Straight	3	16.40'	15M4874	21.99
● 803001A09M050	Female-90°	3	16.40'	15M4875	21.99
● 804006A09M050	Male-Straight	4	16.40'	15M4877	21.82
● 804000A09M050	Female-Straight	4	16.40'	96F4295	21.82
● 804001A09M050	Female-90°	4	16.40'	15M4876	21.82

➔ CONTINUED ➔

SINGLE KEYWAY MICRO-CHANGE® MOLDED AND ATTACHABLE CONNECTORS (CONT.)

Mfg. Part No.	Connector	Poles	Cable Length	Stock No.	Price Each
● 805006A09M050	Male-Straight	5	16.40'	14B2876	29.29
● 805000A09M050	Female-Straight	5	16.40'	31M6787	33.19
● 805001A09M050	Female-90°	5	16.40'	31M6788	33.19

STRAIGHT RECEPTACLES WITH 12" WIRE LEADS

Mfg. Part No.	Connector	Poles	Cable Length	Stock No.	Price Each
● 8R3006A18A120	Male	3	...	14B2707	13.81
● 8R3A00A18A120	Female	3	...	15M4868	15.82
● 8R4006A18A120	Male	4	...	15M4870	16.54
● 8R4A00A18A120	Female	4	...	15M4869	18.41
● 8R5006A18A120	Male	5	...	15M4872	18.94
● 8R5A00A18A120	Female	5	...	15M4871	21.01

ATTACHABLE CONNECTORS

Route cable through tight places where molded-on connectors won't fit. Replace damaged molded connectors quickly. Micro Change® enables quick-disconnect wiring on specialty cable and pre-wired control system devices. Current rating: 4A. Meets IEC enclosure IP68 classification. Field wireable with a screwdriver.

Mfg. Part No.	Connector	Poles	Cable Fitting	Stock No.	Price Each
● 8A4006-32	Male	4	PG9	15M4864	23.65
● 8A4000-32	Female	4	PG9	31M6776	23.65
● 8A4007-31	Male (90°)	4	PG7	31M6777	23.65
● 8A4001-31	Female (90°)	4	PG7	15M4863	23.65
● 8A5006-31	Male	5	PG7	15M4866	25.59
● 8A5000-31	Female	5	PG7	15M4865	25.59
● 8A5007-31	Male (90°)	5	PG7	15M4867	25.59
● 8A5001-31	Female (90°)	5	PG7	83F1938	25.59

(2958)

NANO-CHANGE® CONNECTORS

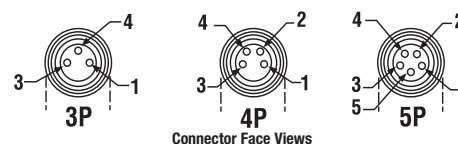
BRADHARRISON
From Daniel Woodhead Company**Woodhead**
A Division of molex

Molded Straight Male



Field Attachable Straight Female

- 4 AMPS at 60VAC/75VDC
- Standard M8 sensor connector
- Connector dimensions (inches): Molded Straight Male .39D x 1.46L, Field Attachable Straight Female .457D x 1.772



Connector Face Views

Smallest family of multipin connectors designed for fast, error-free wiring in all types of industrial settings. Threaded couplings meet NEMA 6 & IP67 ratings for water resistance. Cordsets are 12" long and have a molded connector on one end and stripped wire leads on the other. Receptacles mount in a 1/2" knockout and have 12" stripped wire leads. Field attachable connectors have solder terminals and are used to repair cordsets in the field. 90° versions are available; go online or call.

CORDSETS WITH MOLDED CONNECTOR AND PIGTAIL

Mfg. Part No.	Description	Poles	Stock No.	Price Each	
				Each	2-4
● 403006A10M040	Male, Straight	3	31M6592	17.83	17.19
● 403000A10M040	Female, Straight	3	14B1384	17.83	17.19
● 404006A10M040	Male, Straight	4	31M6593	21.54	20.76
● 404000A10M040	Female, Straight	4	32M1451	21.54	20.76
● 405006A10M040	Male, Straight	5	15M2441	27.36	26.37
● 405000A10M040	Female, Straight	5	15M2440	27.36	26.37

RECEPTACLES WITH 12" WIRE LEADS

● 4R3P06A27C300	Male	3	53M5081	10.27	9.90
● 4R3P00A27C300	Female	3	53M5080	13.41	12.93
● 4R4P06A27C300	Male	4	53M5082	11.24	10.83
● 4R4P00A27C300	Female	4	14B1387	14.30	13.79
● 4R5P06A27C300	Male	5	53M5084	12.40	11.95
● 4R5P00A27C300	Female	5	53M5083	15.47	14.91

FIELD ATTACHABLE CONNECTORS

● N04FA03124	Female, Straight	4	14B952	28.17	27.16
● N04MA03124	Male, Straight	4	31M5736	28.17	27.16

(62180)

SENSORS – CABLE ASSEMBLIES

MINI-CHANGE®
MOLDED
CONNECTORS

MINI-CHANGE MOLDED CONNECTORS

MINI-CHANGE MOLDED CONNECTORS

- Current rating, 8A-13A
- Connector size (inches): Straight Female Plug .56D x 4.46L, 90° Female Plug .56D x 3.53L x 1.56W, Straight Male Plug .70D x 4.50L and 90° Male Plug .70D x 3.53L x 1.60W
- For 12mm and 18mm proximity sensors

Used with: 18mm and 30mm tubular proximity sensors, limit switches, rectangular proximity and photoelectric sensors, and solenoids. Applications include: sensors on conveyors, hydraulic valves, packing equipment, and material handling equipment. Quad-Beam® contact maintains constant pressure on the male pin to ensure optimum conductivity. High-performance, long-lasting gold over palladium-nickel plating on contact. An epoxy-coated coupling nut provides up to 500 hours of corrosion resistance and an anti-vibration guard. Plugs are straight or 90° and can be lighted. Rated 7-13A, 600V. Rated NEMA 6P. UL recognized, CSA certified.

CORDSET WITH MOLDED CONNECTOR AND PIGTAIL
6' CABLE LENGTH

Mfg. Part No.	Current Rating	Connector Type	Poles	Stock No.	Price Each
103002A01F060	13A	Male	3	18C1945	23.42
103000A01F060	13A	Female	3	15M1984	23.42
103001A01F060	13A	Female-90°	3	15M1985	23.42
104002A01F060	10A	Male	4	31M6367	30.29
104000A01F060	13A	Female	4	31M6364	30.29
104001A01F060	13A	Female-90°	4	31M6366	30.29
105002A01F060	8A	Male	5	18C1949	36.73
105000A01F060	8A	Female	5	18C3206	36.73
105001A01F060	8A	Female-90°	5	15M1988	36.73
208000A01F060	7A	Female	8	15M1997	74.15

15' CABLE LENGTH

103002A01F150	13A	Male	3	18C1946	34.21
103000A01F150	13A	Female	3	18C3200	34.21
103001A01F150	13A	Female-90°	3	18C3202	34.21
104002A01F150	10A	Male	4	31M6368	44.41
104000A01F150	10A	Female	4	31M6365	44.41
105002A01F150	8A	Male	5	18C1950	56.40
105000A01F150	8A	Female	5	18C3207	56.40
105001A01F150	8A	Female-90°	5	15M1989	56.40

RECEPTACLE WITH 12' WIRE LENGTHS

Mfg. Part No.	Current Rating	Receptacle Type	Poles	Stock No.	Price Each
1R3006A20A120	13A	Male-Straight	3	15M1980	14.30
1R3007A20A120	13A	Male-90°	3	18C3192	18.47
1R3004A20A120	13A	Female	3	15M1979	19.48
1R4006A20A120	10A	Male-Straight	4	15M1981	16.38
1R4007A20A120	10A	Male-90°	4	18C3195	20.57
1R4004A20A120	10A	Female	4	18C1943	21.11
1R5006A20A120	8A	Male-Straight	5	18C3197	18.47
1R5007A20A120	8A	Male-90°	5	15M1983	22.64
1R5004A20A120	8A	Female	5	15M1982	23.07
2R8006A20A120	7A	Male	8	15M1996	41.05

(2956)

Huge Expanded
Selection of
Semiconductors

(148843)

Go online to find new technologies and proven solutions from world-class and specialist suppliers.

DUAL KEYWAY MICRO-
CHANGE® MOLDED
CONNECTORS

- Current Rating, 4A
- Designed for 12mm and 18mm sensor applications
- IP68; NEMA 6P water-tight rating

Used with 12 and 18mm tubular proximity sensors, tubular photoelectric sensors, and modular controls. Mechanically-keyed mating parts eliminate mismating. Diameter, 0.57" and length, 1.84". Rated 4A, 300V. Oil-resistant, PVC jacketed cable. UL listed, CSA certified. Meets NEMA enclosure Type 6 and IEC enclosure IP68.

DUAL KEYWAY CONNECTORS (AC) CORDSETS WITH MOLDED CONNECTOR AND PIGTAIL

Mfg. Part No.	Connector	Poles	Cable Length	Stock No.	Price Each
702006D02F060	Male-Straight	2	6.00'	39C1969	19.81
702000D02F120	Female-Straight	2	12.00'	53M5334	26.27
703006D02F060	Male-Straight	3	6.00'	15M4349	21.18
703000D02F120	Female-Straight	3	12.00'	96F4277	29.63
703001D02F120	Female- 90°	3	12.00'	96F4279	29.63
704006D02F120	Male-Straight	4	12.00'	53M5336	35.75
704000D02F120	Female-Straight	4	12.00'	53M5335	36.37
705000D02F120	Female-Straight	5	12.00'	14B2617	46.19

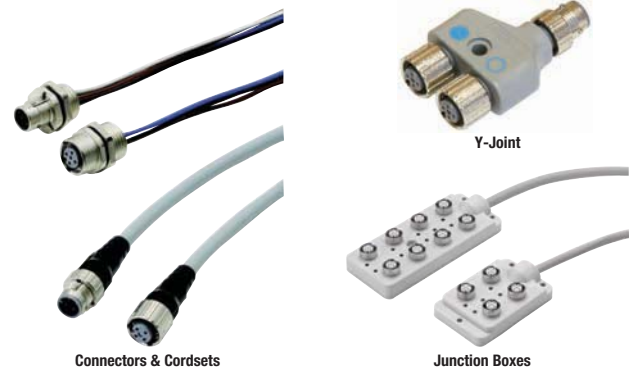
STRAIGHT RECEPTACLES WITH 12" WIRE LEADS

Mfg. Part No.	Connector	Poles	Cable Length	Stock No.	Price Each
7R2A00A19A120	Female	2	...	15M4343	14.70
7R3006A19A120	Male	3	...	14B2400	12.67
7R3A00A19A120	Female	3	...	15M4344	14.95
7R5006A19A120	Male	5	...	17M8459	16.54

(80420)

WATERPROOF SENSOR
I/O CONNECTORS &
CABLE ASSEMBLIES

Just Added

OMRON.
ELECTRONIC COMPONENTS

Connectors & Cordsets

Junction Boxes

- A newly developed lock structure that maintains compatibility with conventional, screw-type M12 connectors
- Simply insert the Connectors, then turn them approximately 1/4 of a turn to lock
- A positive click indicates locking
- Features the same degree of protection (IP67) as conventional, screw-type M12 connectors
- Connector with cable are UL approved

PANEL MOUNT CONNECTORS WITH 0.5m PIGTAILS

Mfg. Part No.	Connector	Mounting	Stock No.	Price Each
XS5MD4265	Plug	Front Panel Mount	08R3675	18.84
XS5MD4275	Plug	Rear Panel Mount	08R3676	20.03
XS5PD4265	Receptacle	Front Panel Mount	08R3677	19.93
XS5PD4275	Receptacle	Rear Panel Mount	08R3678	19.93

SINGLE ENDED RECEPTACLE CORDSETS

Mfg. Part No.	Cable Length (m)	Stock No.	Price Each
XS5FD421D80A	2	08R3673	20.25
XS5FD421G80A	5	08R3674	19.96

BOUBLE ENDED PLUG TO RECEPTACLE CORDSETS

Mfg. Part No.	Cable Length (m)	Stock No.	Price Each
XS5WD421D81A	2	08R3680	28.80
XS5WD421G81A	5	08R3681	25.65

» CONTINUED »

SENSORS – CABLE ASSEMBLIES

WATERPROOF SENSOR I/O CONNECTORS & CABLE ASSEMBLIES (CONT.)

Y-JOINT

Mfg. Part No.	Description	Stock No.	Price Each
			1-9
XS5RD4261	2 Receptacles to 1 Plug	08R3679	67.40

JUNCTION BOXES

Mfg. Part No.	No. of Ports	No. of I/O	Sensor Type	Stock No.	Price Each
					1-24
XW3DP455G11	4	4	3-Wire DC NPN/2-Wire DC	08R3682	258.41
XW3DP853G11	8	8	3-Wire DC PNP/2-Wire DC	08R3683	390.88

(147850)

M12 EUROFAST RECEPTACLES



FS

FK

- Male or female receptacle
- NEMA 1, 3, 4, 6P and IEC IP68 protection

- 4-wire or 8-wire termination
- Current rating: 4A (4-wire); 2A (8-wire)

MALE

Mfg. Part No.	Mount	Application	Length (m)	Stock No.	Price Each
					1-9
● FS 4-0.5	Front	Mate with 3-wire Cordset	0.5	99M0758	11.20
● FS 4.4-0.3	Front	Mate with 4-wire Cordset	0.3	41M3248	10.89
● FS 4.4-0.5	Front	Mate with 4-wire Cordset	0.5	66M8074	10.89
● FS 4.5-0.5	Front	Mate with 5-wire Cordset	0.5	99M0757	12.61
● FS 8-0.5	Front	Mate with 8-wire Cordset	0.5	41M3249	16.33
● FS 10-0.5	Front	Mate with 10-wire Cordset	0.5	99M0755	17.74
● FS 12-0.5	Front	Mate with 12-wire Cordset	0.5	99M0756	19.95
● FSFD 4.4-0.5	Rear	Mate with 4-wire Cordset	0.5	41M3254	16.97
● FSFD 4.5-0.5	Rear	Mate with 5-wire Cordset	0.5	54M9958	17.77
● FSFD 8-0.5	Rear	Mate with 8-wire Cordset	0.5	41M3258	20.06
● FSFD 10-0.5	Rear	Mate with 10-wire Cordset	0.5	99M0759	22.48
● FSFD 12-0.5	Rear	Mate with 12-wire Cordset	0.5	99M0760	23.18

FEMALE

● FK 4-0.5	Front	Mate with 3-wire Cordset	0.5	99M0752	11.02
● FK 4.4-0.3	Front	Mate with 4-wire Cordset	0.3	41M3230	10.89
● FK 4.4-0.5	Front	Mate with 4-wire Cordset	0.5	66M8049	10.89
● FK 4.5-0.5	Front	Mate with 5-wire Cordset	0.5	99M0751	12.61
● FK 8-0.5	Front	Mate with 8-wire Cordset	0.5	41M3231	15.52
● FK 10-0.5	Front	Mate with 10-wire Cordset	0.5	99M0749	17.74
● FK 12-0.5	Front	Mate with 12-wire Cordset	0.5	99M0750	19.95
● FKFD 4.4-0.5	Rear	Mate with 4-wire Cordset	0.5	41M3236	17.13
● FKFD 4.5-0.5	Rear	Mate with 5-wire Cordset	0.5	99M0754	17.84
● FKFD 8-0.5	Rear	Mate with 8-wire Cordset	0.5	41M3240	20.06
● FKFD 10-0.5	Rear	Mate with 10-wire Cordset	0.5	99M0753	20.96
● FKFD 12-0.5	Rear	Mate with 12-wire Cordset	0.5	64M5008	24.99

(93071)

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FIELD WIREABLE CONNECTORS



Industrial Automation



Minifast

Picofast

Eurofast

- Field wireable
- Standard keyway

- Straight housing style
- Eurofast series offers IEC IP 67 protection

MALE

Mfg. Part No.	No. of Pins	Series	Cable Range	Stock No.	Price Each
					1-9
● BS 4131-0/9	3	Minifast	6-8 mm	41M2264	30.22
● BS 4151-0/9	5	Minifast	6-8 mm	41M2265	33.51
● BS 5131-0	3	Picofast	3-5 mm	41M2266	19.96
● BS 5141-0	4	Picofast	3-5 mm	41M2267	19.96
● BS 8141-0/LABEL*	4	Eurofast	4-6 mm	99M0746	21.70
● BS 8141-0/PG9	4	Eurofast	4-8 mm	41M2268	18.79
● BS 8141-0/PG9/LABEL*	4	Eurofast	6-8 mm	99M0747	21.70
● BS 8151-0/PG9	5	Eurofast	6-8 mm	55M3352	24.80
● BS 8151-0/PG9/LABEL*	5	Eurofast	4-8 mm	99M0748	27.70

FEMALE

● B 4131-0/9	3	Minifast	6-8 mm	41M2013	30.22
● B 4151-0/9	5	Minifast	6-8 mm	41M2014	33.51
● B 5131-0	3	Picofast	3-5 mm	41M2015	19.96
● B 5141-0	4	Picofast	3-5 mm	41M2016	19.96
● B 8141-0	4	Eurofast	4-8 mm	99M0742	18.79
● B 8141-0/LABEL*	4	Eurofast	4-6 mm	99M0743	21.70
● B 8141-0/PG9	4	Eurofast	4-8 mm	41M2017	18.79
● B 8141-0/PG9/LABEL*	4	Eurofast	6-8 mm	99M0744	21.70
● B 8151-0/PG9/LABEL*	5	Eurofast	4-8 mm	99M0745	27.70

(93072)

MULTIBOX® EUROFAST® LOW PROFILE JUNCTION BOXES



Industrial Automation



4-port



8-port

Features:

- Dual output per port
- Rugged plastic housing
- Available with or without LEDs
- M23 quick disconnect or integral cable
- Threaded M12 connection
- PNP LED

Specifications:

- 2A/port, 10A total
- Yellow PVC cable or 19-pin multifast® connector
- 3/18AWG, 8/22AWG
- Foil shield and 20AWG drain
- 2 signals per port
- Mates with CKM 19-11-* cordsets (4 port) or CKM 19-19-* multifast® cordsets (8 port)

Mfg. Part No.	Ports	Termination	Cable Length (m)	Stock No.	Price Each
● 4MB12Z-5P3-CS19	4	Multifast Connector	...	41M6587	121.10
4MB12Z-5P3-5	4	Integral Cable	5	41M6588	134.90
● 8MB12Z-5P3-CS19	8	Multifast Connector	...	41M6696	163.22
8MB12Z-5P3-5	8	Integral Cable	5	41M6697	175.86

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