

Pressure Switches

Industrial



Connections
 1. Common
 2. N.C., opens on pressure rise
 3. N.O., closes on pressure rise

H=130, W=82, D=38
 Fixing centres
 (2 holes dia.=4)=45x69, Pressure input= 1/4" BSP brass

- Pressure switching can be set externally
- Switching hysteresis between rising and falling pressure can be preset
- Double insulated GFS nylon housing, sealed to **IP65**
- Pressure setting can be made tamper-proof by 1.5mm A/F Hex. key
- Approximate pressure setting may be seen through a window in the cover

Industrial pressure switch supplied with 3 colour coded springs to give 3 pressure ranges covering 20 psi to 200 psi, the mid-range spring being supplied ready fitted. Switching is through two separate SPCO V3-style microswitches with 1/4" fast-on spade connections, and cable entry is via M20 tapped conduit hole.

Brass and nitrile rubber are the only materials in contact with the pressure system, making the pressure switch suitable for most commonly used operating fluids, for example in regulating water flow lines or in factory air systems.

Operating pressure ranges (on rising pressure)	Red spring: 20 to 50 psi (1.4 to 3.5 bar) White spring: 40 to 100 psi (2.7 to 6.9 bar) Blue spring: 80 to 200 psi (5.5 to 13.8 bar) Adjustable 20% to 50% of operating pressure
Switching hysteresis	±2 psi @ 50 psi rising pressure
Switch setting accuracy	500 psi
Withstand pressure	15A 250V ac(resistive)
Contact rating	-5°C to + 70°C
Operating temperature	

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Mfrs. List No.	Order Code	1+	10+	+
6702-0002	213-317	3,380.00	3,305.00	--

Industrial - 0184 Series



L=90 (overall), Dia.=34,
 Mounting=27 hex., Thread= G1/4
 (1/4" BSP)

- Rugged industrial pressure switches with a wide range of possible setting pressures
- Adjustable switching hysteresis of 10 to 30% between rising and falling pressure
- Switch output by 4A/250VAC changeover contacts
- Connection by industry standard DIN connector
- When used in conjunction with the connector the switch is sealed to **IP65**
- NBR seal material type suitable for use with hydraulic oil, gasoline, engine oil, heating oil, turpentine and air

- EPDM seal material type suitable for use with water, hydrogen, sea water, acetylene
- Stainless steel body versions suitable for process and chemical industries and pharmaceutical, agricultural applications etc.

Output Rating	4A	Mechanical Life	1000000 operations
Maximum operation	200 operations/min	Temperature range	-30°C to +100°C
Hysteresis	10%	Body Material	Zinc plated steel
Adjustment Range	Tolerance at Room Temp.	Over Pressure	
0.3 to 1.5 Bar	±0.2 bar	100Bar	
1 to 10 Bar	±0.5 to 1.0 bar	300Bar	
10 to 50 Bar	±3.0 bar	300Bar	
10 to 100 Bar	±3.0 to 5.0 bar	300Bar	
50 to 200 Bar	±5.0 bar	600Bar	

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Operating Pressure Range	Mfrs. List No.	Order Code	1+	5+	10+
Zinc Plated Steel Body, NBR Diaphragm					
0.3 to 1.5 Bar	0184-45703-1-003	679-057	3,394.00	3,225.00	3,055.00
1 to 10 Bar	0184-45803-1-042	679-069	3,394.00	3,225.00	3,055.00
10 to 50 Bar	0184-45903-1-009	679-070	3,394.00	3,225.00	3,055.00
10 to 100 Bar	0184-46103-1-012	679-082	3,394.00	3,225.00	3,055.00
50 to 200 Bar	0185-46003-1-003	679-094	3,702.00	3,517.00	3,332.00
Zinc Plated Steel Body, EPDM Diaphragm					
0.3 to 1.5 Bar	0184-457032-003	721-3086	3,394.00	3,225.00	3,055.00
1 to 10 Bar	0184-458032-042	721-3098	3,394.00	3,225.00	3,055.00
10 to 50 Bar	0184-459032-009	721-3104	3,394.00	3,225.00	3,055.00
10 to 100 Bar	0184-461032-012	721-3116	3,394.00	3,225.00	3,055.00
50 to 200 Bar	0185-460032-003	721-3128	3,394.00	3,427.00	3,264.00
Stainless Steel Body, NBR Diaphragm					
0.5 to 5 Bar	0184-457031-SS	721-3037	4,619.00	4,388.00	4,158.00
1 to 10 Bar	0184-458031-SS	721-3049	4,619.00	4,388.00	4,148.00
10 to 50 Bar	0184-459031-SS	721-3050	4,619.00	4,388.00	4,158.00
10 to 100 Bar	0184-461031-SS	721-3062	4,619.00	4,388.00	4,158.00
50 to 200 Bar	0185-460031-SS	721-3074	5,046.00	4,795.00	4,542.00



Accelerometers

Accelerometers with ac Output With Intrinsic Safety Options



- Robust construction for industrial use
- AC output of 100mV/g
- Uses two-wire constant current drive
- Intrinsically safe version available approved by EECS to category **EEx ia IIC T6**
- Wide operating temperature range -25°C to +140°C
- Mating connector available (not stainless steel)
 H (excl connector) = 38, Hex = 25 A/F, Cable L = 5m

Frequency response	2Hz to 8kHz±10%	Transverse sensitivity	Less than 5%
Mounted resonance	10kHz (nom.)	Compliance voltage	24 volts (smoothed)
Measuring range	50g	Integral cable	5m armoured PTFE
Sensitivity	100mV/g ±10% nom.@80Hz	Case material	Stainless Steel
Isolation	Base isolated	Weight	110g (nom.)
Operating temp. range	-25°C to +140°C	Sealing	IP67
Electrical noise	0.3mg max.	Connector	MS 2-pin hermetic
Current range	0.5 to 8mA		

For suitable Zener barrier for intrinsically safe accelerometers, see **Order Code 710-4175**.

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Mounting Style	Connector Type	Mfrs. List No.	Order Code	1+	10+	25+
Female	Connector	MTN/1100	707-7300	14,456.00	13,389.00	12,904.00
Female	Cable	MTN/1100HC	722-3584	14,456.00	13,389.00	12,904.00
Male	Cable	MTN/1100HCM8	722-3596	14,456.00	13,389.00	12,904.00
Intrinsic Safety Type						
Female	Connector	MTN/1100I	707-7336	20,374.00	18,434.00	17,464.00
Male	Cable	MTN/1100IHCM8	722-3602	20,374.00	18,434.00	17,464.00
Mating connector		MS3106A-10SL4S	633-835	714.00	642.00	571.00
Cable clamp		97-3057-1004-1	151-626	521.00	410.00	363.00

Float Switches

Horizontal



- Internal or External fitting
- Specific Gravity to 0.65
- Interface unit available
- Temperature range to 130°C
- Suitable for a wide range of liquids
- Nylon 6.6, Glass Filled Polypropylene or PPS
- Level rise or fall sensing (rotate housing 180)
- International Standards Approvals and recognition (UL, WRC, EN)
- Repeatability and reliability due to Reed Switch characteristics

L=87.9(54.9 into vessel)
 Float dia = 17.3
 Mounting hole dia = (16.5 internal, 23 external fitting)

Typical Sensing Applications

- Vending machines - water level
- Coolant level indication - automotive
- Boiler heating - element protection
- Drinking water level - fountain
- Fuel level - engine
- Oil level - engine

	372-1000	372-1012	372-1024	516-089	372-1036
Switching voltage	100Vdc, 250Vac	100Vdc, 250Vac	100Vdc, 240Vac	120Vdc, 120Vac	100Vdc, 250Vac
Switching current	1A	1A	1A	1A	1A
Switching power	15VA	15VA	15VA	15VA	15VA
Min S.G	0.85	0.65	0.70	0.65	0.65
Material	Nylon 6.6	Polypropylene	PPS	Glass filled polypropylene	Polypropylene
Temperature Range	-30°C to +130°C	-30°C to +110°C	-30°C to +130°C	-30°C to +110°C	-30°C to +110°C
Sealing Components	Nitrile	Silicone	Silicone	Silicone	Silicone
Cable			2 x 18AWG PVC insulated		

233603

Type	Mfrs. List No.	Order Code	1+	5+	10+
Nylon 6.6	LS303-51N..	372-1000‡	646.00	567.00	496.00
Polypropylene	LS403-51..	372-1012‡	628.00	554.00	508.00
PPS	LS503-51..	372-1024‡	1,032.00	905.00	792.00
Polypropylene(120V)	FLS801-51	100-6780●	691.00	614.00	582.00
Polypropylene(250)	LS803-51..	372-1036‡	628.00	554.00	508.00

Vertical



- Level rise or fall sensing (rotate float 180)
- Suitable for a wide range of liquids
- Temperature range to 70°C
- Specific Gravity to 0.7
- Polypropylene housing
- M8 internal fitting
- Foamed or hollow float (foamed float maintains buoyancy if punctured)
- Top or bottom entry
- Repeatability and reliability due to Reed Switch characteristics
- Interface unit available Order Code **730-816**

