

DETECTORS • ENCODERS

DETECTORS



- Test Conditions: T = 25°C
- Responsivity: Standard Window
- Wavelength range: 210-380nm
- L Types Have Built-In Lenses
- Rise Time: t (63%)
- Sensitive Area: Active Diode for Types without Lens

ULTRAVIOLET DETECTORS — STANDARD UV DETECTORS

Mfg. Part No.	Pkg.	Radiant Sensitivity (mA/w)	Peak Wavelength (nm)	Sensitive Area (mm ²)	Dark Current (fA)	Stock No.	Price Each			
							1-4	1-4	50-99	
UV 10 SF	T0-5	140	280	5.4 x 10 ⁻²	0.2	28H5849	59.000	2.720	2.480	2.240
UV 10 SL	T0-5	25	280	12.5	0.2	28H5850	39.010	3.520	3.200	2.890

SINGLE-ELEMENT THERMOPILE DETECTORS WITH BUILT-IN THERMISTOR

Test conditions: 500K. Color: black body. Wavelength: 5 to 14µm. Field of View: @ 50% intensity points.

Mfg. Part No.	Pkg.	DC Sensitivity (V/W)	Time Constant (ms)	Chip Active Area (mm ²)	TP Chip Res. (kΩ)	Field of View	Stock No.	Price Each		
								1-4	1-4	5-9
TPS334	T0-39	35	25	0.7 x 0.7	75	60°	28H5639	10.450	9.340	
TPS 534	T0-39	20	35	1.2 x 1.2	40	80°	28H5425	17.290	15.440	

THERMOPILE MODULE

Thermopile modules feature Si lens, 5V supply voltage and 90ms time constant.

Mfg. part No.	Pkg. Dim. LxWxH (mm)	Object Temp. Range	Field of View	Stock No.	Price Each		
					1-4	1-4	5-9
A2TPMI334-L5.5 0AA180 / 6264	9 x 15: Incl. pins 9 x 8: Can only	180°C	7°	02J8529	107.500		96.000
A2TPMI334 0AA300 / 6269	9 x 10: Incl. pins 9 X 4: Can only	300°C	60°	02J8526	28.170		25.160
A2TPMI334-L5.5 0AA300 / 6260	9 x 15: Incl. pins 9 x 8: Can only	300°C	7°	02J8531	36.550		32.640

PYROELECTRIC INFRARED DETECTORS — DUAL ELEMENT DETECTORS

- Test Conditions: T = 22°C
- Responsivity: 100°C Black Body
- Noise: 0.3 to 10Hz Bandwidth
- NEP: 100°C Black Body, 1Hz Electric Bandwidth
- D*: 100°C Black Body, 1Hz Electric Bandwidth
- Mfg. Part No. LHI814 G2/G20 May Be Equipped with 2 Different Narrow Band Infrared Filters

Mfg. Part No.	Pkg.	Responsivity (V/w) typ. 1Hz	Noise (UVpp) typ.	Active Area (mm ²)	NEP (W/hz) typ.	Stock No.	Price Each		
							1-4	1-4	5-9
LHI 878	T0-5	4000	20	2 x 1, 2 x 1	7.5 x 10 ⁻¹⁰	27H0758	1.850	1.660	
LHI 968	T0-5	3800	20	2 x 1, 2 x 1	7.5 x 10 ⁻¹⁰	27H0759	4.370	3.900	

PYROELECTRIC INFRARED DETECTORS — DUAL-CHANNEL DETECTORS

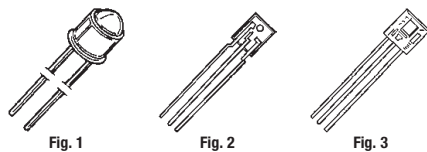
Mfg. Part No.	Pkg.	Responsivity (V/w) typ. 10Hz	Noise (UVpp) typ. 10Hz	Element Size (mm ²)	Field of View X ea Y ea	Stock No.	Price Each		
							1-4	1-4	5-9
LHI 814 G1/G20	T0-5	640	600	1.5 x 1.5 ea	77° 95°	27H0757	38.490	34.370	

SCHMITT TRIGGER DETECTORS



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HERMETIC PACKAGING

Mfg. Part No.	Fig.	Output Circuit	Max. Radiant Threshold (mW/cm ²)	Operating Range V _{cc} (V)	Stock No.	Price Each		
						1-24	25-49	50-99
SD5600-001	1	Buffer 10kΩ PU	2.5	4.5 - 16.0	87F6478	4.760	4.340	4.340
SD5610-001	1	Inverter 10kΩ PU	2.5	4.5 - 16.0	90F8543	5.750	5.240	4.730

➔ CONTINUED ➔

SCHMITT TRIGGER DETECTORS (CONT.)

PLASTIC PACKAGING

Mfg. Part No.	Fig.	Output Circuit	Max. Radiant Threshold (mW/cm ²)	Operating Range V _{cc} (V)	Stock No.	Price Each		
						1-24	25-49	50-99
SDP8600-001	2	Buffer 10kΩ PU	2.5	4.5 - 16.0	90F8548	2.720	2.480	2.240
SDP8371-001	3	Buffer OC	0.065*	4.5 - 15.0	95F5325	3.520	3.200	2.890

*Release point maximum. (3839)

2- AND 3-CHANNEL ENCLOSED ENCODERS



Mfg. Part Nos. HEDS-5500/5540 and HEDS-5600/5640

- Operating Temperature: -40°C to +100°C
- Quick Assembly
- TTL Compatible

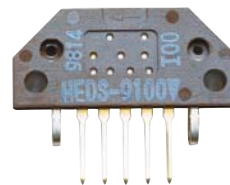


Mfg. part nos. HEDS-5500/5540 and HEDS-5600/5640 are high-performance optical incremental encoders. 2-/3-channel digital outputs and single 5V supply input are accessed through five 0.025" square pins on 0.1" centers. Mfg. part no. HEDS-5505 has thru-hole housing. No mechanical or electrical adjustments are needed. Ideal for high-volume applications, including printers, plotters, tape drives, and positioning tables.

Mfg. Part No.*	Outputs	Counts Per Resolution	Shaft Dia.	Stock No.	Price Each		
					1-9	10-49	50+
HEDS-5500#A05	2-Channel	500	3/16"	54K2756	66.360	63.800	56.150
HEDS-5500#A06	2-Channel	500	1/4"	54K2757	66.360	63.800	56.150
HEDS-5500#A11	2-Channel	500	4mm	54K2758	66.360	63.800	56.150
HEDS-5500#F05	2-Channel	256	1/4"	06F5829	66.360	63.800	56.150
HEDS-5500#F06	2-Channel	256	1/4"	05F8277	66.360	63.800	56.150
HEDS-5500#I05	2-Channel	512	1/4"	06B1972	66.360	63.800	56.150
HEDS-5500#I06	2-Channel	512	1/4"	54K2761	66.360	63.800	56.150
HEDS-5500#G06	2-Channel	360	1/4"	54K2759	66.360	63.800	56.150
HEDS-5505#A06	2-Channel	500	1/4"	54K2762	66.360	63.800	56.150
HEDS-5540#A05	2-Channel	500	1/4"	52F7494	66.360	63.800	56.150
HEDS-5540#A06	3-Channel	500	1/4"	54K2763	66.360	63.800	56.150
HEDS-5600#A06	2-Channel	500	1/4"	54K2766	66.360	63.800	56.150
HEDS-5600#C06	2-Channel	100	1/4"	54K2767	66.360	63.800	56.150
HEDS-5640#A06	3-Channel	500	1/4"	54K2769	66.360	63.800	56.150

*HEDS-56xx - Mounting Ears (9883)

2- AND 3-CHANNEL OPTICAL ENCODER MODULES



- Supply Input: 5V
- Five 0.025" Square Pins Located on 0.1" Centers
- Operating Temperature: -40°C to +100°C

Mfg. part nos. HEDS-9100 are high-performance, optical-incremental encoder modules. When used in conjunction with a codewheel, the modules detect rotary position. Mfg. part nos. HEDS-9040/9140 use highly collimated light source and unique photodetector array to provide the same high-performance found in 2-channel encoder series. Order codewheels separately; go online or call.

Mfg. Part No.	Chan-nels	Used with Codewheel	Optical Radius (mm)	Reso-lution (cpr)	Stock No.	Price Each		
						1-9	10-49	50-99
HEDS-9100#A00	2	HEDS-5120	11.00	500	14M7533	32.390	31.750	27.940
HEDS-9100#B00	2	HEDS-5120	11.00	1000	54K2777	32.390	31.750	27.940
HEDS-9100#I00	2	HEDS-5120	11.00	512	54K2780	32.390	31.750	27.940
HEDS-9040#B00	3	HEDS-5140	23.36	1000	54K2776	32.640	32.000	28.160
HEDS-9040#J00	3	HEDS-5140	23.36	1024	06F5903	32.640	32.000	28.160
HEDS-9040#T00	3	HEDS-5140	23.36	2000	06B2337	32.640	32.000	28.160
HEDS-9140#A00	3	HEDS-5140	11.00	500	54K2781	36.470	35.750	31.460
HEDS-9140#I00	3	HEDS-5140	11.00	512	52F6055	38.040	36.330	33.900

LARGE DIAMETER (56mm) HOUSED OPTICAL ENCODERS

Mfg. part nos. HEDS-65xx/HEDL-65xx are high-performance 2- and 3-channel optical-incremental encoders. Each encoder contains a lensed LED source, an integrated circuit with detectors and output circuitry, and a codewheel which rotates between the emitter and detector integrated circuit. Operating temperature: -40°C to +100°C. Single +5V supply. Shaft size: 0.25". Mfg. part no. HEDS-6540 feature third channel index pulse. Mfg. part no. HEDL-6540 feature a line driver option for noisy environments or long distances.

Mfg. Part No.	Chan-nels	Description	Reso-lution (cpr)	Stock No.	Price Each		
					1-9	10-49	10-49
AEDA-3200-TAJ	3	Index Pulse/Line Driver	2500	31K6397	97.410	84.040	
AEDA-3200-TBJ	3	Index Pulse/Line Driver	7200	02M9282	97.410	84.040	
AEDA-3200-TB7	3	Index Pulse/Line Driver	6000	02M9283	97.410	84.040	
HEDS-6500#B06	2	Index Pulse	1000	91F6242	169.580	146.300	
HEDS-6540#B06	3	Index Pulse	1000	54K2773	195.080	168.300	

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ENCODERS • INFRARED COMPONENTS

2- AND 3-CHANNEL OPTICAL ENCODER MODULES (CONT.)

Mfg. Part No.	Channels	Description	Resolution (cpr)	Stock No.	Price Each		
					1-9	10-49	100-499
● HEDS-6540#B06	3	Index Pulse	1000	54K2773	195.080	168.300	
● HEDL-6540#B11	3	Index Pulse/Line Driver	1000	06B1567	207.930	179.390	

ULTRA-MINIATURE, HIGH-RESOLUTION INCREMENTAL ENCODER

Mfg. part no. AEDA-3200-TBK emphasize high-reliability, high-resolution and easy assembly, using transmissive encoder technology to sense rotary position. Feature two-channel quadrature outputs and a third channel gated index output. Encoder module can be easily mounted to customer specific applications with the specially designed "Plug and Play" tool.

Mfg. Part No.	Channels	Counts per Revolution	Stock No.	Price Each		
				1-9	10-24	25-49
● AEDA-3200-TBK	3	7500	21J7666	101.620	97.030	90.540

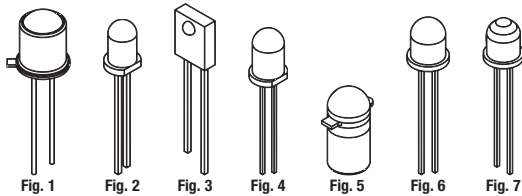
MINIATURE PANEL MOUNT OPTICAL ENCODERS

The HRPG series is a family of miniature panel mount optical encoders, also known as Rotary Pulse Generators (RPG) and digital potentiometers. The HRPG is very flexible for numerous applications due to the many configuration options available.

Mfg. Part No.	Rotation Speed (RPM)	Counts per Revolution	Supply Current (mA)	Supply Voltage (V)	Stock No.	Price Each		
						1-9	10-49	100-499
● HRPG-ASCA#54F	300	120	40	5.5	06B3710	38.760	38.000	

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THROUGH HOLE INFRARED EMITTING DIODES



935nm GaAs

Mfg. Part No.	Fig	Beam Angle	Output Power Min. (mW/cm²)	V _F Max. (V)	I _F Max. (mA)	Stock No.	Price Each		
							1-99	100-249	250-499
● OP124	5	24	1.00	1.8	50	08F2916	3.840	2.380	2.240
● OP131	1	18	3.00	1.75	100	08F2917	3.390	2.110	1.980
● OP132	1	18	4.00	1.75	100	08F2918	3.390	2.110	1.980
● OP133	1	18	5.00	1.75	100	08F2920	3.390	2.110	1.980
● OP133W	1	50	5.0	1.75	100	52F4486	4.920	3.050	2.870
● OP140A	3	40	0.4	1.6	20	08F2922	1.080	0.670	0.630
● OP140B	1	40	0.3	1.6	50	08F2923	1.110	0.861	0.774
● OP165A	2	18	1.95	1.6	50	08F2941	1.230	0.763	0.718
● OP165D	1	18	0.28	1.6	50	08F2944	1.560	0.909	0.866
● OP166A	2	18	1.95	1.6	20	08F2945	1.380	0.856	0.805

890nm GaAlAs

Mfg. Part No.	Fig	Beam Angle	Output Power Min. (mW/cm²)	V _F Max. (V)	I _F Max. (mA)	Stock No.	Price Each		
							1-99	100-249	250-499
● OP224	5	24	3.5	1.8	100	52F4488	3.720	2.310	2.170
● OP231	1	18	1.5	2	100	08F2950	3.840	2.380	2.240
● OP232	1	18	2.00	2	100	08F2952	3.840	2.380	2.240
● OP232W	1	50	3.50	2	100	08F2953	3.600	2.240	2.100
● OP233	1	18	3	2	100	08F2954	3.840	2.380	2.240
● OP240A	3	40	0.6	1.8	20	08F2957	1.080	0.670	0.630
● OP240B	3	40	0.4	1.8	50	08F2958	1.080	0.670	0.630
● OP265A	2	18	2.7	1.8	20	08F2969	1.380	0.856	0.805
● OP265D	2	18	0.54	1.8	50	08F2972	1.260	0.782	0.735
● OP266A	1	18	2.7	1.8	50	01C3571	1.380	0.856	0.805
● OP290A	4	65	210	4	1500	08F2978	1.170	0.726	0.683
● OP291A	4	50	16	2	150	08F2980	1.170	0.726	0.683
● OP293A	6	60	16	2	100	08F2984	1.080	0.670	0.630
● OP293B	6	60	13	2	1500	52F4490	1.080	0.670	0.630
● OP295A	4	15	44	4	1500	08F2986	1.170	0.726	0.683
● OP295B	4	15	33	4	1500	08F2987	1.170	0.726	0.683
● OP296B	4	15	2.6	2	100	91F1833	1.170	0.726	0.683
● OP297A	4	15	0.7	1.75	20	08F2991	1.170	0.726	0.683
● OP298A	7	25	3.0	2	1500	08F2993	1.080	0.670	0.630
● OP298B	1	60	2.4	2	100	98F7169	1.080	0.670	0.630
● OP298C	7	25	1.8	2	100	08F2994	1.080	0.670	0.630
● OP298AA	7	25	3.5	2	133	79M4624	1.500	0.930	0.875
● OP298AB	7	25	3.5	2	133	79M4625	1.500	0.930	0.875
● OP298AC	7	25	6.5	2	133	79M4626	1.500	0.930	0.875

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THROUGH HOLE INFRARED EMITTING DIODES (CONT.)

890nm GaAlAs

Mfg. Part No.	Fig	Beam Angle	Output Power Min. (mW/cm²)	V _F Max. (V)	I _F Max. (mA)	Stock No.	Price Each		
							1-99	100-249	250-499
● OP298AD	7	25	8.5	2	133	79M4627	1.500	0.930	0.875
● OP299	1	20	0.15	1.5	50	01C3582	0.900	0.580	0.562

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SURFACE MOUNT INFRARED EMITTING DIODES



A subsidiary of TT electronics plc

Mfg. Part No.	Peak Wavelength (nm)	Beam Angle (°)	Power Min. (mW)	V _F Max. (V)	I _F Max. (A)	Stock No.	Tape Cut	
							1-99	100-499
● OP180	940	100	130	1.28	1	99M0675	0.450	
● OP200	880	150	110	1.6	65 mA	33K3557	0.390	
● OP250	880	160	110	1.6	1	33K3558	0.390	
● OP251	880	90	110	1.6	1	33K3559	0.450	
● OP270	890	25	130	1.5	1	33K2829	0.510	
● OP271	890	25	130	1.5	1	33K3560	0.510	
● OP272	890	25	130	1.5	1	33K3561	0.510	
● OP273	890	25	130	1.5	1	33K3562	0.540	
● OP280	880	100	130	1.5	1	33K3563	0.480	
● OP280K	875	90	130	1.5	1	99M0677	1.620	
● OP280KT	250	90	130	1.55	1	99M0679	0.960	
● OP280PS	250	50	130	1.5	1	99M0681	2.970	
● OP280V	250	18	130	1.95	1	99M0683	10.260	

(113839)

INFRARED-EMITTING DIODES



INFRARED EMITTERS

Mfg. Part No.	Peak Wavelength (nm)	Angle (±°)	Radiant Intensity (mW/sr)*	Rise and Fall Time (ns)*	Pkg.	Stock No.	Price Each
							1-99
● CQY37N	950	12	5	400	1.8 mm	33C0671	0.398
● CQY36N	950	55	1.5	400	1.8 mm	33C0670	0.398
● TSAL5100	940	10	130	800	T1-3/4, 5 mm	33C1730	0.285
● TSAL5300	940	22	45	800	T1-3/4, 5 mm	58K2525	0.285
● TSAL6100	940	10	130	800	T1-3/4, 5 mm	33C1732	0.285
● TSAL6200	940	17	60	800	T1-3/4, 5 mm	95B4858	0.285
● TSAL6400	940	25	40	800	T1-3/4, 5 mm	95B4859	0.285
● TSAL7200	940	17	60	800	T1-3/4, 5 mm	95B4860	0.285
● TSAL7300	940	22	45	800	T1-3/4, 5 mm	33C1733	0.285
● TSAL7400	940	25	40	800	T1-3/4, 5 mm	33C1734	0.285
● TSAL7600	940	30	25	800	T1-3/4, 5 mm	33C1735	0.285
● TSFF5210	870	10	180	15	T1-3/4, 5 mm	54K7366	1.050
● TSFF5410	870	22	70	15	T1-3/4, 5 mm	54K7367	1.050
● TSHF5210	870	10	160	30	T1-3/4, 5 mm	93K0963	0.488
● TSHF5410	870	22	70	30	T1-3/4, 5 mm	93K0964	0.488
● TSHG6200	850	10	160	20	T1-3/4, 5 mm	45J3438	1.280
● TSHG6400	850	22	70	20	T1-3/4, 5 mm	93K0965	1.280
● TSHG8200	830	10	160	20	T1-3/4, 5 mm	93K0966	1.280
● TSAL4400	940	25	30	800	T-1	58K2524	0.285
● TSKS5400S	950	30	9	400	Side View	86H2546	0.513
● TSSF4500	870	22	20	30	T1-3/4, 5 mm	88K1270	1.000
● TSUS5400	950	22	14	800	T1-3/4, 5 mm	88K1275	0.311
● TSUS5402	950	22	20	800	T1-3/4, 5 mm	88K1276	0.311

SURFACE MOUNT

● TSMF1000	870	17	5	30	1.9 mm	33C1776	0.813
● TSML1000	950	12	7	800	1.9 mm	33C1780	0.655
● TSML1020	950	12	7	800	1.9 mm	33C1781	0.655
● VSMF3710-GS08	870	60	10	30	PLCC-2	31M2970	0.037
● VSMF4710-GS08	870	60	10	15	PLCC-2	31M2971	0.037
● VSMG2700-GS08	830	60	10	15	PLCC-2	31M2972	0.037
● VSMG3700-GS08	850	60	10	20	PLCC-2	31M2973	0.037
● VSM3710-GS08	950	60	8	800	PLCC-2	31M2974	0.037
● VSM53700-GS08	950	60	4.5	30	PLCC-2	31M2975	0.037

* Forward Current = 100 mA (52472)

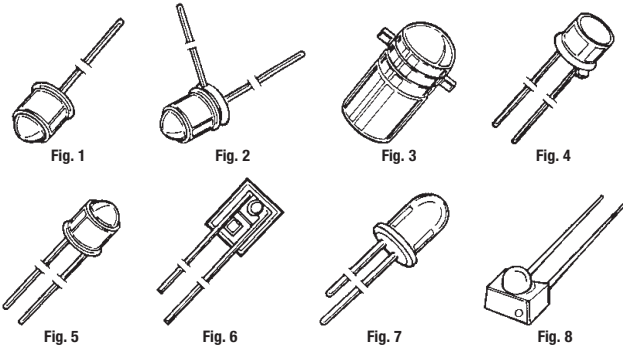
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INFARED COMPONENTS

INFRARED EMITTING DIODES



Honeywell
Sensing and Control



HERMETIC PACKAGING

Mfg. Part No.	Fig.	Beam Angle	V _F Max. @ I _F (V)	Output Min. H (mW/cm ²) @ I _F (mA)	Peak Wave-length (nm)	Stock No.	Price Each			
							1-24	25-49	50-99	
● SE1450-003L	2	24°	1.6	0.7	50	935	87F6444	4.800	4.370	4.370
● SE2470-002	3	18°	1.8	6	50	880	87F6447	2.900	2.640	2.380
● SE3455-003	4	90°	1.7	4.8	100	935	87F6488	4.580	4.170	3.760
● SE3470-003	4	90°	1.9	10.5	100	880	87F6489	4.460	4.060	3.670
● SE5450-013	5	20°	1.7	1	100	935	90F8506	4.120	3.750	3.750
● SE5455-002	5	20°	1.7	3.5	100	935	87F6491	4.120	3.750	3.750
● SE5470-001	5	20°	1.9	7	100	880	50F5059	4.230	3.850	3.480
● SE5470-003	5	20°	1.9	2.6	100	880	50F5061	4.240	3.870	3.870
● SE5470-004	5	20°	1.9	3.5	100	880	50F5062	3.860	3.520	3.180

PLASTIC PACKAGING

● SEP8705-002	7	15°	1.7	1.4	20	880	89F5761	1.490	1.360	1.230
● SEP8705-003	7	15°	1.7	2.7	20	880	89F5762	1.400	1.280	1.150
● SEP8706-002	6	50°	1.7	0.45	20	880	87F6498	1.220	1.110	0.997
● SEP8706-003	6	50°	1.7	0.65	20	880	90F8509	1.160	1.060	0.950
● SEP8736-002	8	10°	1.7	1.2	20	880	93F7707	1.260	1.150	1.150

PHOTODIODE DETECTORS

HERMETIC PACKAGING

Mfg. Part No.	Fig.	Acceptance Angle	I _{c(on)} Min. @ V _r = 20V (μA)	Rated @ H (mW/cm ²)	Stock No.	Price Each		
						1-24	25-49	50-99
● SD1420-002L	2	24°	5	5	90F8521	4.530	4.130	3.720
● SD2420-002	3	48°	7	20	90F8522	3.680	3.350	3.030
● SD3421-002	4	90°	10	5	90F8523	7.660	6.980	6.980
● SD5421-002	5	18°	40	5	90F8524	6.870	6.260	5.650
● SDP8276-001	6	50°	4	1	16F2217	1.220	1.120	1.010

PHOTOTRANSISTOR DETECTORS

HERMETIC PACKAGING

● SD1440-003	1	24°	3	5	87F6471	3.990	3.630	3.630
● SD1440-003L	2	24°	3	5	87F6472	4.330	3.940	3.940
● SD2440-002	3	48°	2	20	90F8525	5.860	5.330	4.810
● SD3443-003	4	90°	2	5	90F8526	3.860	3.520	3.520
● SD5443-002	5	18°	4	5	89F5767	3.740	3.410	3.410
● SD5443-003	5	18°	8	5	87F6476	3.800	3.460	3.460
● SDP8314-301	5	12°	4	5	96F6394	5.710	4.860	4.010

PLASTIC PACKAGING

● SDP8405-002	7	20°	7	5	59K0255	1.470	1.340	1.210
● SDP8425-001	7	20°	1	5	90F8528	1.190	1.090	0.976
● SDP8406-003	6	50°	3.4	1	87F6484	0.901	0.821	0.821
● SDP8436-002	8	18°	4	1	93F7710	1.110	1.010	0.909
● SDP8436-003	8	18°	7	...	59K0256	1.160	1.060	0.950

PHOTODARLINGTON DETECTORS

HERMETIC PACKAGING

● SD1410-003	1	24°	4	0.2	90F8533	8.560	7.800	7.030
● SD1410-003L	2	24°	4	0.2	90F8535	12.250	11.160	10.070
● SD2410-003	3	48°	6	1	90F8537	7.660	6.970	6.290
● SD3410-003	4	90°	4	2	90F8539	13.610	12.010	10.980
● SD5410-002	5	12°	4	0.2	90F8540	4.310	3.930	3.930
● SD5410-003	5	12°	8	0.2	90F8541	4.380	3.990	3.990
● SDP8106-001	6	50°	1	1	90F8542	2.570	2.340	2.120

(3838)

IR HIGH-PERFORMANCE EMITTERS



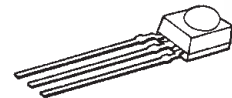
Mfg. Part No.	±Phi (°)	T _R , T _F (μs)	I _E @ I _F (mW/sr, mA)	V _F @ I _F (V, mA)	Material	Pkg.	Stock No.	Price Each	
								1-99	100-499
● TSHA4400	200	300	20 (>12) @ 100	1.5 (<1.8) @ 100	Plastic	3 mm, Plastic	58K2526	0.625	0.405
● TSHA4401	200	300	30 (>16) @ 100	1.5 (<1.8) @ 100	Plastic	3 mm, Plastic	33C1756	0.642	0.416
● TSHA5200	120	300	40 (>25) @ 100	1.5 (<1.8) @ 100	Plastic	5 mm, Plastic	33C1757	0.625	0.405
● TSHA5201	120	300	50 (>30) @ 100	1.5 (<1.8) @ 100	Plastic	5 mm, Plastic	58K2527	0.642	0.416
● TSHA5203	120	300	65 (>50) @ 100	1.5 (<1.8) @ 100	Plastic	5 mm, Plastic	58K2528	0.670	0.434
● TSHA5500	240	300	20 (>12) @ 100	1.5 (<1.8) @ 100	Plastic	5 mm, Plastic	33C1761	0.625	0.405
● TSHA5501	240	300	25 (>16) @ 100	1.5 (<1.8) @ 100	Plastic	5 mm, Plastic	33C1762	0.642	0.416
● TSHA5502	240	300	30 (>20) @ 100	1.5 (<1.8) @ 100	Plastic	5 mm, Plastic	58K2529	0.642	0.416
● TSHA5503	240	300	35 (>24) @ 100	1.5 (<1.8) @ 100	Plastic	5 mm, Plastic	33C1764	0.670	0.434
● TSHA6200	120	300	40 (>25) @ 100	1.5 (<1.8) @ 100	Plastic	5 mm, Plastic	33C1765	0.625	0.405
● TSHA6201	120	300	50 (>30) @ 100	1.5 (<1.8) @ 100	Plastic	5 mm, Plastic	33C1766	0.642	0.416
● TSHA6202	120	300	60 (>36) @ 100	1.5 (<1.8) @ 100	Plastic	5 mm, Plastic	33C1767	0.642	0.416
● TSHA6203	120	300	65 (>50) @ 100	1.5 (<1.8) @ 100	Plastic	5 mm, Plastic	58K2530	0.670	0.434
● TSHA6500	240	300	20 (>12) @ 199	1.5 (<1.8) @ 100	Plastic	5 mm, Plastic	33C1769	0.625	0.405
● TSHA6501	240	300	25 (>16) @ 100	1.5 (<1.8) @ 100	Plastic	5 mm, Plastic	33C1770	0.642	0.416
● TSHA6502	240	300	30 (>20) @ 100	1.5 (<1.8) @ 100	Plastic	5 mm, Plastic	33C1771	0.642	0.416
● TSHA6503	240	300	35 (>24) @ 100	1.5 (<1.8) @ 100	Plastic	5 mm, Plastic	33C1772	0.670	0.434
● TSTA7100	50	500	50 (>20) @ 100	1.4 (<1.8) @ 100	Hermetically Sealed	Metal	33C1869	4.550	2.940
● TSTA7300	120	500	20 (>10) @ 100	1.4 (<1.8) @ 100	Hermetically Sealed	Metal	33C1870	4.550	2.940
● TSTA7500	400	500	6 (>3.2) @ 100	1.4 (<1.8) @ 100	Hermetically Sealed	Metal	33C1871	4.550	2.940

(74693)

INFRARED RECEIVERS



Enhanced immunity against disturbance lights. No occurrence of disturbance pulses at the output. Power on setting time: <200μs. Transmission distance: 35m. Supply voltage (V_s): 2.7 - 5.5V. Supply current (I_{SD}): 0.7 - 1.5mA. Directivity: ±45°.



Mfg. Part No.	f ₀ (kHz)	Stock No.	Price Each		
			1-99	100-499	500-999
● TSOP31236	36	58K2547	1.140	0.959	0.791
● TSOP31238	38	58K2549	1.120	0.940	0.776
● TSOP31240	40	59K0286	1.140	0.959	0.791
● TSOP31256	56	09J4519	1.140	0.959	0.791
● TSOP34830	30	88K2015	1.140	0.959	0.791
● TSOP34836	36	88K1266	1.140	0.959	0.791
● TSOP34838	38	88K2016	1.140	0.959	0.791
● TSOP34840	40	88K1267	1.140	0.959	0.791
● TSOP34856	56	88K1268	1.140	0.959	0.791

(52586)

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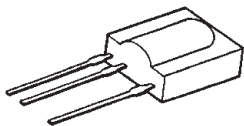
(148859)

INFARED COMPONENTS • ULTRAVIOLET COMPONENTS

INFRARED RECEIVERS

Features

- Operation with short bursts possible (greater than 6 cycles/burst)
- Photo detector and preamplifier in one package
- Internal filter for PCM frequency
- Improved shielding against electrical field disturbance
- Low power consumption; Output active low
- High immunity against ambient light
- Enhanced data rate of 4000 bit/s
- Transmission Distance: 35m
- Directivity: ±45°
- TTL and CMOS Compatibility



Remote control modules have internal filter for PCM accuracy and improved shielding against all electrical field disturbances. Continuous data transmission possible (1200bits/sec). **TSOP1200 series** has enhanced immunity against all kinds of disturbance light and no occurrences of disturbance pulses at the output.

DISTRIBUTED AMBIENT LIGHT APPLICATIONS

Mfg. Part No.	Carrier Frequency (kHz)	Package	Min. Irradiance (mW/m²)	Stock No.	Price Each	
					1-24	25-99
● TSOP1130	30	Standard	0.6	34M8855	1.560	1.090
● TSOP1136	36	Standard	0.6	34M8856	1.100	0.762
● TSOP1137	36.7	Standard	0.6	22H1459	1.110	0.772
● TSOP1138	38	Standard	0.6	20M1622	1.110	0.772
● TSOP1140	40	Standard	0.6	20M1623	1.110	0.772
● TSOP1156	56	Small Size	0.7	22H1462	1.110	0.772
● TSOP1230	30	Standard	0.5	95B4861	1.110	0.782
● TSOP1233	33	Standard	0.5	22H1464	2.250	0.798
● TSOP1236	36	Standard	0.5	34M8857	1.050	0.727
● TSOP1238	38	Standard	0.5	20M1624	1.050	0.732
● TSOP1240	40	Standard	0.5	20M1625	1.050	0.732
● TSOP1256	56	Standard	0.6	22H1469	2.250	0.798
● TSOP2130	30	Small Size	0.4	33C1824	1.110	0.772
● TSOP2133	33	Small Size	0.4	60K6998	1.110	0.772
● TSOP2136	36	Small Size	0.4	58K2538	1.110	0.772
● TSOP2137	36.7	Small Size	0.4	33C1827	1.110	0.772
● TSOP2138	38	Small Size	0.4	58K2539	1.110	0.772
● TSOP2140	40	Small Size	0.4	59K0284	1.110	0.772
● TSOP2156	56	Small Size	0.5	58K2540	1.110	0.772
● TSOP2230	30	Small Size	0.4	58K2541	1.050	0.732
● TSOP2233	33	Small Size	0.4	33C1832	1.050	0.732
● TSOP2236	36	Small Size	0.4	58K2542	1.050	0.732
● TSOP2237	36.7	Small Size	0.4	58K2543	1.050	0.732
● TSOP2238	38	Small Size	0.4	58K2544	1.050	0.732
● TSOP2240	40	Small Size	0.4	58K2545	1.050	0.732
● TSOP2256	56	Small Size	0.4	59K0285	1.050	0.732
● TSOP34136	36	LED-7b	0.4	09J7373	1.190	0.830
● TSOP34138	38	LED-7b	0.4	88K2014	1.190	0.830
● TSOP34140	40	LED-7b	0.4	09J7375	1.190	0.830
● TSOP4136	36	LED-7b	0.17	58K2552	1.110	0.772
● TSOP4138	38	LED-7b	0.17	59K0287	1.110	0.772
● TSOP4140	40	LED-7b	0.17	33C1850	1.110	0.772
● TSOP4156	56	LED-7b	0.17	58K2554	1.110	0.772

(82590)

IR RECEIVERS

Features

- Photo detector and preamplifier in one package
- Internal Bandfilter for PCM frequency
- Internal shielding against electrical field disturbance
- TTL and CMOS compatibility
- Output active low
- High envelope duty cycle can be received
- Enhanced immunity against disturbance from energy saving lamps



Mfg. part no. **TSOP5700** is a miniaturized SMD IR receiver for infrared remote control and IR data transmission.

Mfg. Part No.	Supply Voltage (V)	Freq. (kHz)	Transmission Distance (m)	Transmission Rate (kbit/s)	Viewing Angle	Stock No.	Price Each
● TSOP5700TT	2.7 to 5.5	455	15	20	Top View	22H1492	2.650

(82302)



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(148830)

IR RECEIVER MODULES FOR REMOTE CONTROL SYSTEMS

Features

- Photo detector and preamplifier in one package
- Internal filter for PCM frequency
- Continuous data transmission possible
- TTL and CMOS compatibility



- Output active low
- Low power consumption
- High immunity against ambient light

Special Features

- Improved immunity against ambient light
- Suitable burst length (≥ 10 cycles/burst)

TSOP362 Series are miniaturized SMD-IR Receiver Modules for infrared remote control systems. PIN diode and preamplifier are assembled on lead frame, the epoxy package is designed as IR filter. The demodulated output signal can directly be decoded by a microprocessor. **TSOP362 Series** is the standard IR remote control SMD-Receiver series, for 3V supply voltage supporting all major transmission codes.

STANDARD APPLICATIONS, USED WITH MAJOR RC CODES

Mfg. Part No.	Voltage Rating (V)	Angle of half transmission distance	Carrier Frequency (kHz)	Stock No.	Price Each
					1-99
● TSOP36130TT	6	45	30	09J7379	1.440
● TSOP36133TT	6	45	33	09J7380	1.440
● TSOP36136TT	6	45	36	09J7381	1.440
● TSOP36137TT	6	45	36.7	09J7382	1.440
● TSOP36138TT	6	45	38	09J7383	1.440
● TSOP36140TT	6	45	40	09J7384	1.440
● TSOP36156TT	6	45	56	09J7385	1.440
● TSOP36236TT	3	45	36	09J4527	1.360
● TSOP36238TT	3	45	38	09J4528	1.360
● TSOP36240TT	3	45	40	09J4529	1.360
● TSOP36256TT	3	45	56	09J4530	1.360
● TSOP6136TT	3	45	36	22H1498	1.340
● TSOP6236TT	5	50	36	22H1512	1.290
● TSOP6238TR	5	50	38	22H1515	1.290
● TSOP6238TT	5	50	38	22H1516	1.290
● TSOP6240TT	5	50	40	22H1518	1.290
● TSOP6256TT	5	50	56	22H1520	1.290

MULTIMEDIA APPLICATIONS, RC CODES WITH HIGH DATA RATES AND SHORT BURSTS

Mfg. Part No.	Voltage Rating (V)	Angle of half transmission distance	Carrier Frequency (kHz)	Stock No.	Price Each
● TSOP6138TT	5	50	38	22H1502	1.340
● TSOP6140TT	5	50	40	22H1504	1.340
● TSOP6156TT	5	50	56	22H1506	1.340

(82475)

INFRARED TRANSCIEVERS



SIR 9.6 kBIT/S - 115 kBIT/S
LOW-POWER CONSUMPTION; SPLIT POWER SUPPLY

Mfg. Part No.	Dim. (H x W x L) (mm)	Trans. Distance (m) *	Operating Voltage (V)	Logic (V)	Tape Cut	
					Stock No.	Price Each
● TFBS4650-TR1	6.8 x 2.8 x 1.6	0 - 0.3	2.4 - 3.6	V _{log} = V _{cc}	36K2941	3.970
● TFBS4652-TR1	6.8 x 2.8 x 1.6	0 - 0.3	2.4 - 3.6	V _{log} ≥ 1.5V	36K2944	3.970

LOW-POWER CONSUMPTION

● TFDU4101-TT3	4.0 x 4.7 x 9.7	0 - 3.0	2.7 - 5.5	V _{log} = V _{cc}	27M9702	6.990
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LOW-PROFILE, LOW-POWER CONSUMPTION; SHUTDOWN PIN

● TFDU4300-TR1	2.5 x 2.9 x 8.5	0 - 0.7	2.4 - 5.5	V _{log} ≥ 1.5V	07J8942	3.590
● TFDU4300-TT1	2.5 x 2.9 x 8.5	0 - 0.7	2.4 - 5.5	V _{log} ≥ 1.5V	09J7268	3.590
● TFDU4300-TT3	2.5 x 2.9 x 8.5	0 - 0.7	2.4 - 5.5	V _{log} ≥ 1.5V	09J7270	3.590

LOW-POWER CONSUMPTION; SHUTDOWN PIN

● TFDU6103-TR3	4.0 x 4.7 x 9.7	0 - 1	2.7 - 5.5	V _{log} = V _{cc}	47M0477	3.650
● TFDU6103-TT3	4.0 x 4.7 x 9.7	0 - 1	2.7 - 5.5	V _{log} = V _{cc}	47M0478	3.760

*Transmit distance (74703)

ULTRAVIOLET (UV) LEDs



Applications:

- Commercial Outdoor Sign Board
- Front Panel Indicator
- Dot-Matrix Module
- LED Bulb

Features:

- Low Power Consumption
- I.C. Compatible

VCC Ultraviolet (UV) LEDs are based on InGaN material technology. They have a water transparent lense and emit the color purple (UV).

Mfg. Part No.	Size	Luminous Intensity (mcd)	Viewing Angle (°)	Wavelength Typ. (nm)	Stock No.	Price Each
● VAOL-3EUVOY4	3mm	150	15	405	08R4594	0.659
● VAOL-3EUVB8Y4	3mm	72	15	385	08R4595	0.849
● VAOL-3GUV0Y4	3mm	120	30	405	08R4596	0.659
● VAOL-3GUVB8Y4	3mm	55	30	385	08R4597	0.849
● VAOL-5EUVOY4	5mm	200	15	405	08R4598	0.659
● VAOL-5EUVB8Y4	5mm	100	15	385	08R4599	0.849

▶ CONTINUED ▶

ULTRAVIOLET COMPONENTS • OPTOCOUPLED

ULTRAVIOLET (UV) LEDs (CONT.)

Mfg. Part No.	Size	Luminous Intensity (mcd)	Viewing Angle (°)	Wavelength Typ. (nm)	Stock No.	Price Each
● VAOL-5GV0T4	5mm	160	30	405	08R4600	0.659
● VAOL-5GV0T4	5mm	80	30	385	08R4601	0.849

(147867)

LED LAMPS **Just Added**



Applications:

- Commercial Outdoor Sign Board
- Front Panel Indicator
- Dot-Matrix Module
- LED Bulb

Features:

- Low Power Consumption
- High Intensity
- I.C. Compatible

Mfg. Part No.	Color	Wavelength Typ. (nm)	Luminous Intensity (mcd)	Viewing Angle (°)	Stock No.	Price Each
● VAOL-3GAE4	Red	640	150	30	57P7111	0.128
● VAOL-3GCE4	Yellow	590	150	30	57P7112	0.136
● VAOL-3GDE4	Green	570	170	30	57P7113	0.128
● VAOL-3GSBY4	Blue	470	2500	30	57P7114	0.296
● VAOL-3GWY4	White	...	3500	30	57P7115	0.361
● VAOL-3LSBY4	Blue	470	1200	60	57P7126	0.296
● VAOL-3LWY4	White	...	2500	60	57P7127	0.361
● VAOL-5701AE4	Red	640	85	100	57P7148	0.136
● VAOL-5701CE4	Yellow	590	80	100	57P7149	0.144
● VAOL-5701DE4	Green	570	100	100	57P7150	0.136
● VAOL-5701SBY4	Blue	470	1000	100	57P7151	0.304
● VAOL-5701WY4	White	...	1800	100	57P7152	0.369
● VAOL-5GAE4	Red	643	250	30	57P7132	0.128
● VAOL-5GCE4	Yellow	590	380	30	41P0241	0.136
● VAOL-5GDE4	Green	570	380	30	41P0243	0.128
● VAOL-5GSBY4	Blue	470	7000	30	57P7133	0.296
● VAOL-5GWY4	White	...	7000	30	50P9329	0.361
● VAOL-5LSBY4	Blue	470	1500	60	57P7142	0.296
● VAOL-5LWY4	White	...	5000	60	57P7143	0.361
● VAOL-10GAT4	Red	655	480	30	57P7106	0.174
● VAOL-10GCE4	Yellow	593	200	30	57P7107	0.185
● VAOL-10GDE4	Green	570	350	30	57P7108	0.174
● VAOL-10GSBY4	Blue	470	7000	30	57P7109	0.383
● VAOL-10GWY4	White	...	8000	30	57P7110	0.434

(147867)

OPTOCOUPLED



Mfg. Part No.	Isolation Voltage (V)	Operating Temp. Range	Optocoupler Output Type (V)	Output Voltage Max (V)	Stock No.	Price Each
● ACPL-P302-000E	3750	-40°C to +100°C	Gate Drive	-0.5	34M3436	1.460
● ACPL-P456-000E	3750	-40°C to +100°C	Gate Drive	30	32M7968	2.420
● ACPL-T350-000E	3750	-40°C to +100°C	Gate Drive	1.5	46M5116	1.870
● ACPL-M61T-500E	3750	-40°C to +125°C	Logic Gate	5.5	54M6050	2.240
● ACPL-214-500E	3000	-55°C to +110°C	Phototransistor	...	54M6052	0.195
● ACPL-217-500E	3000	-55°C to +110°C	Phototransistor	...	54M6059	0.156
● ACPL-844-300E	5000	-30°C to +100°C	Phototransistor	...	19M9315	1.070
● ACPL-K63L-500E	3750	-40°C to +85°C	Phototransistor	0.6	99K1745	2.860

(105710)

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APPLICATION SPECIFIC OPTOCOUPLED

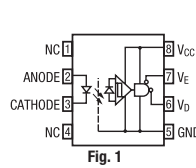


Fig. 1

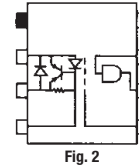


Fig. 2

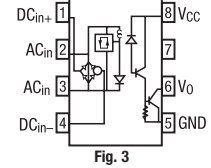


Fig. 3

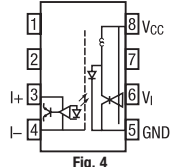


Fig. 4

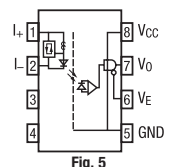


Fig. 5

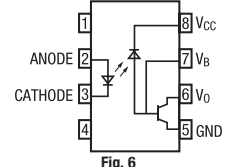


Fig. 6

Mfg. Part No.	Fig.	Description	Stock No.	Price Each
● HCPL-2400-000E	1	Logic Gate 10MBd	31K6968	4.310 3.930 3.180
● HCPL-2602-000E	2	Line Termination for Receivers; 10MBd	31K6985	5.160 4.700 3.810
● HCPL-3700-000E	3	Voltage/Current Detection	88H7829	2.890 2.630 2.130
● HCPL-3760-000E	3	Voltage/Current Detection; Low-Current	31K7011	5.200 4.740 3.840
● HCPL-4100-000E	4	Current Loop Transmitter; 20mA	88H7830	6.090 5.550 4.500
● HCPL-4200-000E	5	Current Loop Receiver; 20mA	88H7831	6.090 5.550 4.500
● HCPL-4562-000E	6	Analog/Video Amp; BW=17MHz; 8-PDIP	31K7033	2.090 1.910 1.550
● HCNW4562-000E	6	Analog/Video Amp; BW=9MHz; Wide Body	36K5462	2.970 2.710 2.190
● HCNW4562-300E	6	Analog/Video Amp; BW=9MHz; Wide Body, Gull Wing	36K5463	3.010 2.740 2.220

(2669)

4N4X SERIES HIGH GAIN DARLINGTON OPTOCOUPLED



Features:

- High Current Transfer Ratio-1500% Typical
- Low Input Current Requirement-0.5 mA
- Performance Guaranteed over 0°C to 70°C Temperature Range
- Internal Base-Emitter Resistor Minimizes Output Leakage
- Gain-Bandwidth Adjustment Pin

Applications:

- Telephone Ring Detector
- Digital Logic Ground Isolation
- Low Input Current Line Receiver
- Line Voltage Status Indicator
- Logic to Reed Relay Interface
- Level Shifting
- Interface Between Logic Families

Mfg. Part No. 4N45 and 4N46 optocouplers contain a GaAsP light emitting diode optically coupled to a high-gain photodetector IC.

Mfg. Part No.	I _F (mA)	CTR (%)	T _{PHL} (µS)	Package	Stock No.	Price Each
● 4N45-000E	10	250	5	6-DIP	36K7071	1.930 1.620
● 4N46-000E	10	350	5	6-DIP	31K7909	2.310 1.940

(78742)

HCPL-90xx/-09xx DIGITAL ISOLATOR



Features:

- +3.3V and +5V TTL/CMOS compatible
- 3ns max. pulse width distortion
- 6ns max. propagation delay skew
- 15ns max. propagation delay
- High speed: 100 MBd
- 15kV/µs min. common mode rejection
- Tri-state output (HCPL-9000/-0900)
- 2500V RMS isolation
- UL1577 and IEC 61010-1 approved

Applications:

- Digital fieldbus isolation
- Multiplexed data transmission
- Computer peripheral interface
- High speed digital systems
- Isolated data interfaces
- Logic level shifting

HCPL-90xx/-09xx series CMOS digital isolators integrated high speed performance and excellent transient immunity specifications. All devices operate at 3.3V or 5V supply voltages, boasting low power consumption.

CONTINUED

OPTOCOUPLERS

HCPL-90xx/-09xx DIGITAL ISOLATOR (CONT.)

UNI-DIRECTIONAL

Mfg. Part No.	Channels	Pkg.	Stock No.	Price Each	
				1-9	10-49
● HCPL-0900-000E	1	8-SOIC	65K5566	3.880	3.060
● HCPL-0930-000E	2	8-SOIC	65K5571	5.700	4.500
● HCPL-0930-000E	2	8-DIP	65K5592	5.700	4.500
● HCPL-090J-000E	4	16-SOIC	65K5564	8.210	6.480
● HCPL-900J-000E	4	16-SOIC	65K5583	8.210	6.480

BI-DIRECTIONAL

● HCPL-0931-000E	2	8-SOIC	65K5573	5.700	4.500
● HCPL-092J-000E	4	16-SOIC	65K5569	8.210	6.480

(78745)

INTEGRATED GATE DRIVE OPTOCOUPLERS



SINGLE CHANNEL

Mfg. Part No.	I _F (mA)	Prop. Delay t _{PHL} max. (μs)	CMR min. (kV/μs)	I _{QTT} min. (A)	Package	Stock No.	Price Each
							1-9
● HCNW3120-000E	7	0.5	15	2.5	8-DIP	88H7745	3.310
● HCPL-315J-000E	7	0.5	15	0.5	16-SOIC	31K7007	5.070
● HCPL-316J-000E	7	0.5	15	2.5	16-SOIC	88H7827	5.670
● HCPL-3120-000E	7	0.5	15	2.5	8-DIP	88H7818	2.090
● HCPL-3120-300E	7	0.5	15	2.5	8-SOIC	88H7819	2.130
● HCPL-0314-000E	8	0.7	10	0.4	8-SOIC	88H7763	1.600
● HCPL-3140-000E	8	0.7	10	0.4	8-DIP	83H6569	1.540
● HCPL-314J-000E	10	0.7	10	0.4	16-SOIC	88H7822	2.560
● ACNW3130-000E	25	0.5	40	2.5	8-DIP	21M9138	4.260
● ACPL-J313-000E	25	0.5	40	2.5	8-DIP	19M9298	3.220
● ACPL-P314-000E	25	0.7	10	0.6	6-SOIC	26M8770	1.810
● ACPL-W302-000E	25	0.7	10	0.4	6-SOIC	05M6838	1.450
● ACPL-W314-000E	25	0.7	10	0.6	6-SOIC	05M6842	1.810
● HCPL-3130-000E	25	0.5	40	2.5	8-DIP	21M9143	2.670

(79048)

HIGH-SPEED DARLINGTON OUTPUT OPTOCOUPLERS



Fig. 1

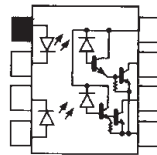


Fig. 2

100kVd DARLINGTON OUTPUT, SINGLE CHANNEL — FIG. 1

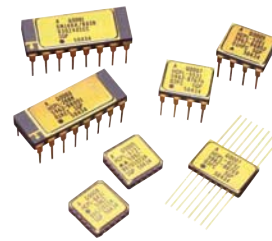
Mfg. Part No.	I _F (mA)	CTR Min. (%)	t _{PHL} (μs)	t _{PLH} (μs)	Package	Stock No.	Price Each
							1-9
● HCNW139-000E	0.5	200	30	115	8-DIP	31K6882	2.290
● HCPL-070A-000E	40	500	500	500	8-SOIC	31K6938	2.740
● HCPL-0700-000E	1.6	300	15	70	8-SOIC	31K6941	1.270
● HCPL-0701-000E	0.5	400	30	115	8-SOIC	31K6942	1.420
● HCPL-0701-500E†	0.5	400	30	115	8-SOIC	88H7791	0.884
● HCPL-M701-000E	0.5	400	100	90	5-SOIC	31K6909	1.670
● 6N138-000E	1.6	300	15	70	8-DIP	31K7922	0.963
● 6N139-000E	0.5	400	30	115	8-DIP	31K7923	0.963

100kVd DARLINGTON OUTPUT, DUAL CHANNEL — FIG. 2

● HCPL-073A-000E	40	500	500	500	8-SOIC	31K6949	7.150
● HCPL-0730-000E	0.5	300	120	90	8-SOIC	31K6953	3.190
● HCPL-0731-500E†	0.5	300	120	90	8-SOIC	88H7797	2.190
● HCPL-0731-000E	0.5	300	120	90	8-SOIC	31K6954	3.560
● HCPL-2730-000E	0.5	300	120	90	8-DIP	88H7816	2.250
● HCPL-2731-000E	0.5	300	120	90	8-SOIC	88H7817	2.360
● HCPL-4731-000E	40	500	500	500	8-DIP	31K7040	5.350

†Tape & Reel (17129)

HERMETICALLY SEALED OPTOCOUPLERS



HERMETICALLY SEALED HIGH GAIN OPTOCOUPLERS

- 4 Channels
- Typ. Data Rate: 100KbD
- Current Transfer Ratio: 300% min.
- Input Current: 0.5-5mA
- Gold Plated Lead Finish

Mfg. Part No.	Class	Stock No.	Price Each
			1-9
● 6N140A	Commercial	09F7267	66.500
● 6N140A/883B	Class H (Military)	06B4504	72.200
● 8302401EC†	DSCC SMD Class H	06B4525	72.200

HERMETICALLY SEALED HIGH SPEED LOGIC GATE OPTOCOUPLERS

- 2 Channels
- Typ. Data Rate: 5MBd
- Common Mode @ VCM = 50V: 1000V/us
- Input Current: 2-8mA
- Gold Plated Lead Finish

Mfg. Part No.	Class	Stock No.	Price Each
			1-9
● HCPL-5230	Commercial	06F5479	111.230
● 5962-8876901PC†	DSCC SMD Class H	06B4419	168.340

HERMETICALLY SEALED INTELLIGENT POWER MODULE AND GATE DRIVE INTERFACE

- 1 Channel
- Typ. Data Rate: 2MBd
- Current Transfer Ratio: 30% min
- Input Current: 10-20mA
- Gold Plated Lead Finish

Mfg. Part No.	Class	Stock No.	Price Each
			1-9
● HCPL-5300	Commercial	83F8849	86.590
● HCPL-5301	Class H (Military)	06B1063	101.860
● 5962-9685201HPC†	DSCC SMD Class H	06B4475	101.860

HERMETICALLY SEALED IGBT GATE DRIVE OPTOCOUPLER

- Features
- Performance Guaranteed over Full Military Temperature Range: -55°C to +125°C
 - Hermetically Sealed Packages
 - 0.5V Maximum Low Level Output Voltage (VOL) Eliminates Need for Negative Gate Drive
 - 10kV/us Minimum Common Mode Rejection (CMR) at VCM = 1000V
 - ICC = 5mA Maximum Supply Current
 - Under Voltage Lock-Out Protection (UVLO) with Hysteresis
 - Wide Operating VCC Range: 15V to 30V
 - 500ns Maximum Propagation Delay
 - ± 0.35μs Maximum Delay Between Devices

Mfg. Part No.	Output Current (A)	Package	Stock No.	Price Each	
				1-9	10-49
● HCPL-5120	2.0	Standard Lead Finish	08J1230	133.060	119.060
● HCPL-5120-100	2.0	Butt Cut/Gold Plate	08J1231	133.670	119.600
● HCPL-5120-200	2.0	Solder Dipped	55M5615	133.670	119.600
● HCPL-5150	0.5	Standard Lead Finish	08J1238	120.960	108.230
● HCPL-5150-100	0.5	Butt Cut/Gold Plate	08J1239	121.590	108.790
● HCPL-5150-200	0.5	Solder Dipped	55M5617	121.590	108.790
● HCPL-5150-300	0.5	Gull Wing/Soldered	55M5618	123.450	110.450

HERMETICALLY SEALED POWER MOSFET OPTOCOUPLER - 90V 1.0 OHM

- Features
- Performance Guaranteed over Full Military Temperature Range: -55°C to +125°C
 - Hermetically Sealed Packages
 - ac/dc Signal & Power Switching
 - Connection A 0.8A, 1.0 Ohms
 - Connection B 1.6A, 0.25 Ohms
 - Input Current 10-20mA

Mfg. Part No.	Description	Package	Stock No.	Price Each		
				1-9	10-99	100-499
● HSSR-7110	Single Channel	8-PDIP	06F7133	73.240	68.520	63.790

†Available in different contact finishes (solder dipped devices contain lead), call Newark (78554)

Expert technical support

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

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OPTOCOUPLERS

HIGH-SPEED TRANSISTOR OUTPUT OPTOCOUPLERS

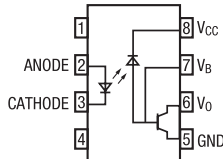


Fig. 1

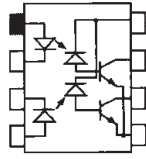


Fig. 2

1MBd TRANSISTOR OUTPUT SINGLE CHANNEL — FIG. 1

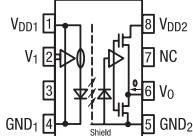
Mfg. Part No.	I _F (mA)	CTR Min. (%)	t _{PLH} Max. (μs)	t _{PHL} Max. (μs)	CMR Min. (V/μs)	Package	Stock No.	Price Each
● ACPL-P480-000E	10	25	0.35	0.35	20k	6-SOIC	26M8774	2.580
● HCPL-M456-000E	10	44	0.49	0.4	15k	5-SOIC	36K5472	2.110
● HCPL-4506-300E	10	44	0.55	0.4	15k	8-SOIC	36K5524	2.030
● HCPL-0466-000E	10	44	0.55	0.4	15k	8-SOIC	31K6922	2.710
● HCPL-4506-000E	10	44	0.55	0.4	15k	8-DIP	88H7837	1.980
● HCNW4506-000E	10	44	0.55	0.4	15k	8-DIP	31K6900	2.600
● HCPL-J454-000E	12	21	0.7	0.5	15k	8-DIP	31K6903	2.900
● HCPL-0454-500E	12	26	1.4	1	10k	8-SOIC	88H7768	1.220
● HCPL-4504-000E	12	26	1.4	1	10k	8-DIP	88H7834	1.790
● HCNW4504-000E	12	25	1.4	1	10k	8-DIP	36K5461	2.540
● HCPL-0500-000E	16	7	2	2	1k	8-SOIC	31K6926	1.110
● 6N135-000E	16	7	2	2	1k	8-DIP	31K7915	0.959
● HCNW135-000E	16	5	2	2	1k	8-DIP	31K6875	1.620
● HCPL-0501-500E	16	19	1	1	1k	8-SOIC	88H7770	0.774
● HCPL-0452-000E	16	19	1	1	1k	8-SOIC	31K6919	1.260
● HCPL-0453-000E	16	19	1	1	15k	8-SOIC	88H7766	1.750
● HCPL-0501-000E	16	19	1	1	1k	8-SOIC	31K6928	1.240
● HCPL-4502-000E	16	19	1	1	1k	8-DIP	31K7017	1.050
● HCPL-4503-000E	16	19	1	1	15k	8-DIP	88H7832	1.600
● 6N136-000E	16	19	1	1	1k	8-DIP	89H3258	0.959
● HCNW136-000E	16	19	1	1	1k	8-DIP	88H7743	1.710
● HCNW4502-000E	16	19	1	1	1k	8-DIP	88H7747	1.710
● HCNW4503-000E	16	19	1	1	15k	8-DIP	31K6896	2.280
● HCPL-2502-000E	25	15	0.8	0.8	1k	8-DIP	31K6972	1.500
● ACPL-P454-000E	25	25	0.3	0.2	15k	6-SOIC	99K1747	2.180
● ACPL-W454-000E	25	25	0.3	0.2	15k	6-SOIC	99K1754	2.180
● ACPL-4800-000E	50	...	0.35	0.35	25k	8-DIP	83K3805	2.130

1MBd TRANSISTOR OUTPUT DUAL CHANNEL — FIG. 2

● HCPL-2530-000E	16	7	2	2	1k	8-DIP	31K6974	1.790
● HCPL-0530-000E	16	7	2	2	1k	8-SOIC	31K6930	2.880
● HCPL-0531-000E	16	19	1	1	1k	8-SOIC	88H7771	2.990
● HCPL-0534-000E	16	19	1	1	15k	8-SOIC	36K5477	4.540
● HCPL-2531-000E	16	19	1	1	1k	8-DIP	88H7809	1.880
● HCPL-2531-300E	16	19	1	1	1k	8-PDIP	31K6977	1.920

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HIGH-SPEED DIGITAL CMOS LOGIC GATE



Mfg. Part No.	Package	Data Rate Mb/S	PWD Max. (nS)	Prop Delay Max. (nS)	Stock No.	Price Each
● HCPL-7710-000E	8-PDIP	12.5	8	40	88H7839	3.840
● HCPL-7710-300E	8-PDIP	12.5	8	40	31K7053	3.880
● HCPL-7720-000E	8-DIP	25	8	40	31K7055	4.260
● HCPL-7721-000E	8-DIP	25	6	40	88H7842	4.690
● HCPL-7723-000E	8-DIP	50	2	22	31K7060	4.800
● HCPL-0710-000E	8-SOIC	12.5	8	40	88H7792	4.050
● HCPL-0710-500E	8-SOIC	12.5	8	40	88H7793	2.480
● HCPL-0708-000E	8-SOIC	15	30	60	83H6561	3.090
● HCPL-0720-000E	8-SOIC	25	8	40	88H7794	4.480
● HCPL-0721-000E	8-SOIC	25	6	40	31K6946	4.900
● HCPL-0723-000E	8-SOIC	50	2	22	31K6947	5.370
● HCPL-0738-000E	8-SOIC	15	15	60	88H7798	5.970

(73122)

5MBd DIGITAL LOGIC GATE OPTOCOUPLER

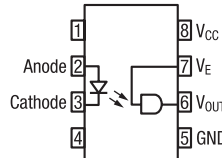


Fig. 1

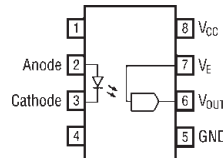


Fig. 2

SINGLE CHANNEL — FIG. 1

Mfg. Part No.	Output Current (mA)	I _F (mA)	t _{prop} (μs)	CMR Min. (V/μs)	Package	Stock No.	Price Each
● HCNW2201-000E*	25	1.6	0.3	1k	8-DIP	31K6885	2.620
● HCNW2211-000E*	25	1.6	0.3	10k	8-DIP	31K6887	2.850
● HCNW2211-300E*†	25	1.6	0.3	10k	8-SOIC	31K6888	2.890
● HCPL-0201-500E**	25	1.6	0.3	1k	8-SOIC	88H7761	1.440
● HCPL-0211-500E**	25	1.6	0.3	10k	8-SOIC	88H7762	1.660
● HCPL-0201-000E†	25	1.6	0.3	1k	8-SOIC	88H7760	2.400
● HCPL-2200-000E†	25	1.6	0.21	2.5k	8-DIP	31K6955	2.260
● HCPL-2201-000E†	5	1.6	0.3	1k	8-DIP	31K6957	2.200
● HCPL-2202-000E†	25	1.6	0.3	1k	8-DIP	31K6959	2.200
● HCPL-2211-000E†	25	1.6	0.3	10k	8-DIP	88H7800	2.480
● HCPL-0211-000E†	25	1.6	0.3	10k	8-SOIC	31K6912	2.760
● HCPL-2212-000E†	5	1.6	0.3	10k	8-DIP	31K6962	2.480

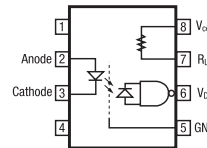
DUAL CHANNEL — FIG. 2

● HCPL-2231-000E	5	1.8	0.3	1k	8-DIP	88H7801	5.730
● HCPL-2231-300E†	5	1.8	0.3	1k	8-SOIC	31K6964	5.770
● HCPL-2232-000E	5	1.8	0.3	10k	8-DIP	88H7803	7.410
● HCPL-2232-300E†	5	1.8	0.3	10k	8-SOIC	31K6965	7.450

*400 mil Wide Body DIP; **Tape & Reel; † Gull Wing Surface Mount Option; ‡ 630V Peak VDE 0884 with Option 060 and Pin 6 Not Connected (2666)

8 MBd LOGIC GATE OPTOCOUPLER

- 300 mil DIP
- Peak Voltage: 630V
- Insulation (UL=1 min.): 2500V

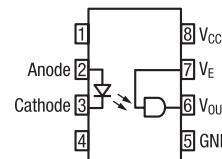


Mfg. Part No.	I _F mA	CMR-V/ms @ (Vcm)	Package	Stock No.	Price Each
● HCPL-2300-000E	0.5	100 (50V)	8-DIP	88H7805	4.920
● HCPL-2300-300E	0.5	100 (50V)	8-SOIC	31K6966	4.970
● HCPL-0300-000E	0.5	100 (50V)	8-SOIC	31K6913	6.390

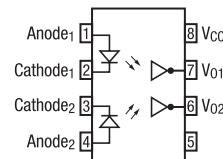
(73118)

10 MBd DIGITAL LOGIC GATE OPTOCOUPLERS

Just Added



Single



Dual

SINGLE CHANNEL

Mfg. Part No.	I _F (mA)	t _{PLH} Max. (nS)	t _{PHL} Max. (nS)	dV/dt (V/μs)	CMR - V/μs @ V _{CM} (V)	Package	Stock No.	Price Each
● 6N137-000E	5	100	100	10000	10	8-DIP	89H3260	1.070
● HCNW137-000E	5	100	100	10000	10	8-DIP	31K6878	2.410
● HCNW2601-000E	5	100	100	5000	50	8-DIP	31K6890	2.370
● HCNW2611-000E	5	100	100	10000	1000	8-DIP	31K6891	3.090
● HCNW2611-300E	5	100	100	10000	1000	8-SOIC	31K6892	3.140
● HCPL-0600-000E	5	100	100	10000	10	8-SOIC	88H7774	1.590
● HCPL-0600-500E	5	100	100	10000	10	8-SOIC	88H7775	0.929
● HCPL-0601-000E	5	100	100	5000	50	8-SOIC	88H7776	1.590
● HCPL-0611-000E	5	100	100	10000	1000	8-SOIC	31K6936	1.920
● HCPL-061A-000E	3	100	100	1000	50	8-SOIC	31K6934	2.200
● HCPL-061N-000E	3	100	100	15000	1000	8-SOIC	08J1215	2.350
● HCPL-2601-000E	5	100	100	5000	50	8-DIP	88H7810	1.430
● HCPL-2601-300E	5	100	100	5000	50	8-SOIC	31K6981	1.470
● HCPL-2611-000E	5	100	100	10000	1000	8-DIP	31K6989	1.600

CONTINUED

10 MBd DIGITAL LOGIC GATE OPTOCOUPLERS (CONT.)

Mfg. Part No.	I _f (mA)	t _{rHL} Max. (ns)	t _{rLH} Max. (ns)	CMR - V/μs@ V _{CM}		Package	Stock No.	Price Each	
				dV/dt (V/μs)	V _{CM} (V)			1-9	10-49
● HCPL-7601-000E	4	100	100	5000	50	8-DIP	31K7048	2.560	
● HCPL-M600-000E	5	100	100	10000	10	5-SOIC	31K6907	1.600	
● HCPL-M611-000E	5	100	100	10000	1000	5-SOIC	88H7757	2.030	
● ACPL-P611-000E	20	48	50	10000	1000	6-SSO	99K1750	1.920	
● ACPL-W611-000E	20	48	50	10000	1000	6-SSO	99K1760	1.920	
DUAL CHANNEL									
● HCPL-0630-000E	5	100	100	10000	10	8-SOIC	88H7785	3.880	
● HCPL-0630-500E	5	100	100	10000	10	8-SOIC	77M8901	4.220	
● HCPL-0631-000E	5	100	100	5000	50	8-SOIC	88H7787	3.880	
● HCPL-0631-500E	5	100	100	5000	50	8-SOIC	88H7788	2.380	
● HCPL-063A-000E	5	100	100	1000	50	8-SOIC	88H7779	5.010	
● HCPL-063A-500E	5	100	100	1000	50	8-SOIC	88H7780	3.060	
● HCPL-063N-000E	3	100	100	15000	1000	8-SOIC	88H7783	6.610	
● HCPL-0661-000E	5	100	100	10000	1000	8-SOIC	88H7789	6.390	
● HCPL-2630-000E	5	100	100	10000	10	8-DIP	88H7813	2.670	
● HCPL-2630-300E	5	100	100	10000	10	8-SOIC	31K6998	2.710	
● HCPL-2631-000E	5	100	100	5000	50	8-DIP	88H7814	2.880	
● HCPL-2631-300E	5	100	100	5000	50	8-SOIC	31K7000	2.920	
● HCPL-263A-000E	5	100	100	1000	50	8-DIP	31K6994	4.160	
● HCPL-263N-000E	3	100	100	15000	1000	8-DIP	31K6997	4.780	
● HCPL-4661-000E	5	100	100	10000	1000	8-DIP	31K7034	4.780	

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ACSL-6XX0 15 MBd DIGITAL LOGIC GATE OPTOCOUPLER



Features

- Available in dual, triple and quad channel configurations
- Bi-directional
- Wide supply voltage range 3.0V to 5.5V
- Wide operating temperature range -40 to 100°C
- High-speed: 15 MBd typical, 10 MBd minimum
- 10kV/μs minimum CMR at V_{cm} = 1000V
- LS TTL/TTL compatible
- Safety and regulatory approvals (Pending)
 - 2500Vrms for 1 min per UL1577
 - CSA Component Acceptance
 - IEC/EN/DIN EN 60747-5-2
- 16-NSOIC package for triple and quad channels

Applications

- I2C - Power over Ethernet
- I2C - Extended Bus Transmission
- I2C - Telecommunication (Power Control System)
- Digital isolation for A/D & D/A converters
- Data Acquisition
- Full duplex fieldbus communication
- Instrument I/O isolation
- Pulse transformer replacement
- Computer parallel and serial interfaces
- Microprocessor system interfaces

ACSL-6xx0 series is the markets first 3.3V, 15MBd, Multi-Channel and Bi-Directional Digital Logic Gate Optocoupler. These multi-channel product family offers in dual, triple and quad channels configuration integrated in a single thin 8-SO or 16-SO packages. Both forward and reverse channels configuration are integrated in a monolithic form that is achieved through a patented process technology.

ALL-IN-ONE MULTI-CHANNEL

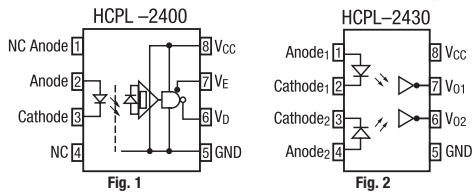
Mfg. Part No.	Forward Channels	Reverse Channels	Package	Stock No.	Price Each	
					1-9	10-24
● ACSL-6300-00TE	3	0	16-SOIC	74K4769	4.480	3.890
● ACSL-6400-00TE	4	0	16-SOIC	64J9639	5.970	5.180

BI-DIRECTIONAL MULTI-CHANNEL

● ACSL-6210-00RE	1	1	8-SOIC	64J9635	2.990	2.590
● ACSL-6310-00TE	2	1	16-SOIC	74K4773	4.900	4.260
● ACSL-6410-00TE	3	1	16-SOIC	71K0634	7.500	5.700
● ACSL-6420-00TE	2	2	16-SOIC	74K4781	6.390	5.550

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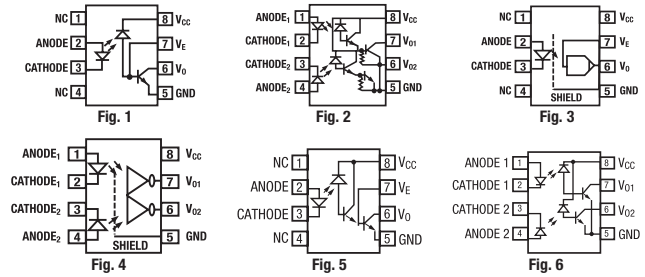
20 MBd DIGITAL LOGIC GATE OPTOCOUPLERS



Mfg. Part No	Fig.	I _f mA	t _{PROP} max. ns	CMR min. (V/μs)	Package	Stock No.	Price Each	
							1-9	10-99
● HCPL-2400-000E	1	4	60	1000	8-DIP	31K6968	4.310	3.930
● HCPL-2400-300E	1	4	60	1000	8-SOIC	31K6969	4.520	3.930
● HCPL-2430-000E	2	4	60	1000	8-DIP	88H7807	10.230	8.880
● HCPL-2430-300E	2	4	60	1000	8-SOIC	31K6970	10.270	8.920

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3.3V OPTOCOUPLERS



- Offers Superior Isolation Performance in Low-Voltage Designs
- Higher Data Rates, Lower Power Consumption
- High CMR Performance

- Cost-Effective
- CSA Certified, VDE Approved

3.3V - 1Mbds TRANSISTOR OUTPUT OPTOCOUPLER - FIGURE 1

Mfg. Part No.	Out-put (Mbd)	If Min. (mA)	Tprop (max.) (μs)	IR Min. (V/μs)	Chan.	Pkg.	Stock No.	Price Each	
								1-9	10-49
● HCPL-050L-000E	1	16	1μs	1k	1	8-SOIC	36K5475	1.320	1.150
● HCPL-250L-000E	1	16	1μs	1k	1	8-PDIP	31K6971	1.030	0.888

3.3V - 1Mbds TRANSISTOR OUTPUT OPTOCOUPLER - FIGURE 2

● HCPL-053L-000E	1	16	1μs	1k	2	8-SOIC	31K6929	3.240	2.820
● HCPL-253L-000E	1	16	1μs	1k	2	8-PDIP	31K6973	2.130	1.850

3.3V - 15 MBd LOGIC GATE OPTOCOUPLERS - FIGURE 3

● HCPL-060L-000E	15	5	75ns	15k	1	8-SOIC	31K6932	1.710	1.480
● HCPL-260L-000E	15	5	75ns	15k	1	8-PDIP	36K5494	1.840	1.600

3.3V - 15 MBd LOGIC GATE OPTOCOUPLERS - FIGURE 4

● HCPL-063L-000E	15	5	75ns	15k	2	8-SOIC	88H7781	4.260	3.700
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3.3V - 100kbd DARLINGTON OUTPUT OPTOCOUPLERS - FIGURE 5

● HCPL-070L-000E	0.1	0.5	30μs	1k	1	8-SOIC	36K5480	1.450	1.260
● HCPL-270L-000E	0.1	0.5	30μs	1k	1	8-DIP	31K7001	1.070	0.925

3.3V - 100kbd DARLINGTON OUTPUT OPTOCOUPLERS - FIGURE 6

● HCPL-073L-000E	0.1	0.5	30μs	1k	2	8-SOIC	31K6951	3.310	2.870
● HCPL-273L-000E	0.1	0.5	30μs	1k	2	8-DIP	31K7002	2.450	2.130

3.3V - 15 MBd LOGIC GATE OPTOCOUPLERS

● HCPL-263L-000E	15	5	75ns	15k	2	8-PDIP	31K6996	3.410	2.960
● ACPL-K63L-000E	15	5	40ns	15k	1	8-SOIC	99K1744	4.650	4.040
● HCPL-M60L-000E	15	20	40ns	15k	1	5-SOIC	02M9223	1.500	1.300
● ACPL-W60L-000E	15	20	40ns	15k	1	6-SOIC	99K1757	2.130	1.850

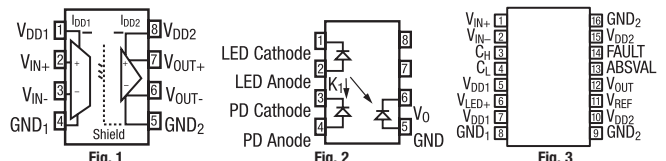
3.3V - 25 MBd LOGIC GATE OPTOCOUPLERS

● ACPL-072L-000E	25	5	40ns	10k	1	8-SOIC	93K8138	3.410	2.960
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MINIATURE ISOLATION AMPLIFIER OPTOCOUPLERS

Just Added



Mfg. Part No.	Fig.	Nonlinearity	BW (Hz)	Gain Tolerance (+/-%)	Pkg.	Stock No.	Price Each	
							1-9	10-99
● HCPL-7800-000E	1	0.20%	100k	3%	8-DIP	88H7844	8.790	8.010
● HCPL-7800A-000E	1	0.20%	100k	1%	8-DIP	88H7847	11.430	10.420
● HCPL-7800A#500	1	0.20%	100k	1%	8-PDIP	05M6395	11.470	10.460
● HCPL-7800A-300E	1	0.20%	100k	1%	8-SOIC	88H7848	11.470	10.460
● HCPL-7840-300E	1	0.20%	100k	5%	8-SOIC	31K7061	5.200	4.740
● HCPL-7510-300E	1	0.40%	100k	3%	8-SOIC	36K5532	3.800	3.460
● HCPL-7520-300E	1	0.40%	100k	5%	8-SOIC	60K5967	3.500	3.190
● HCPL-7840-000E	1	0.20%	100k	3%	8-DIP	88H7850	5.160	4.700
● HCPL-7860-000E	1	0.14%	18k	...	8-DIP	31K7064	10.190	9.290
● HCNR200-000E	2	0.25%	1.5M	15%	8-DIP	88H7710	2.700	2.460
● HCNR201-000E	2	0.25%	1.5M	5%	8-DIP	88H7711	3.600	3.280
● HCPL-788J-000E	3	0.40%	30k	5%	16-SOIC	31K7067	6.970	6.350

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OPTOCOUPLED

HIGH VOLTAGE OPTOISOLATORS



A subsidiary of TT electronics plc

Mfg. Part No.	Isolation Distance (mm)	I _F Max (mA)	Sensor	Vce (V) Max	Stock No.	Price Each	
						1-99	
● OP11270-018	18	40	Phototransistor	30	72M6903	7.560	
● OP11270-026	26	40	Phototransistor	30	72M6904	7.560	
● OP11270-032	32	40	Phototransistor	30	21M5502	7.560	
● OP11270-040	40	40	Phototransistor	30	21M5503	7.560	
● OP11270-066	66	40	Phototransistor	30	72M6905	7.560	
● OP11270-080	80	40	Phototransistor	30	21M5504	7.560	
● OP11280-018	18	40	Phototransistor	30	55M8220	8.440	
● OP11280-026	26	40	Phototransistor	30	55M8221	8.440	
● OP11280-032	32	40	Phototransistor	30	20M8308	8.440	
● OP11280-040	40	40	Phototransistor	30	20M8309	8.440	
● OP11280-066	66	40	Phototransistor	30	55M8222	8.440	
● OP11280-080	80	40	Phototransistor	30	55M8223	8.440	
● OP11290-018	18	40	Phototransistor	30	55M8224	9.490	
● OP11290-026	26	40	Phototransistor	30	55M8225	9.490	
● OP11290-032	32	40	Phototransistor	30	20M8310	9.490	
● OP11290-040	40	40	Phototransistor	30	20M8311	9.490	
● OP11290-066	66	40	Phototransistor	30	55M8226	9.490	
● OP11290-080	80	40	Phototransistor	30	20M8312	9.490	

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OPTOISOLATORS



A subsidiary of TT electronics plc

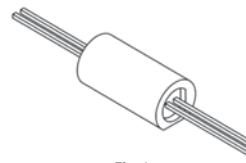


Fig. 1

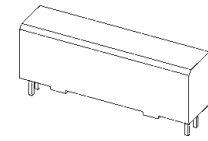


Fig. 2

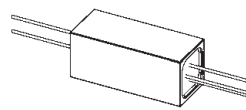


Fig. 3

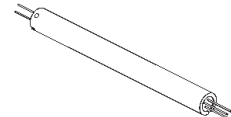


Fig. 4

Mfg. Part No.	Fig.	CTR Min. (%)	V _{EC} (V)	V _{BRCEO} (V)	I _C Min. (mA)	Isolation Min. (kVDC)	Stock No.	Price Each		
								1-99	100-249	250-499
● OP11264A	1	25	5	30	2.5	10.0	08F2861	3.180	2.260	2.140
● OP11264B	1	50	5	30	5	10.0	08F2862	3.180	2.260	2.140
● OP11264C	1	100	5	30	10	10.0	08F2863	3.240	2.300	2.180
● OP11266	2	Photologic	16	2.5	16.0		01C3448	8.550	6.910	6.390
● OP11268	2	Photologic	18	2.5	18.0		83H0206	7.370	5.230	4.940
● OP1155	4	Photologic	18	25	50.0		50H7650	75.830	53.670	51.000
● OP1120	3	20	5	25	25	15.0	08F2860	11.150	9.010	8.330
3C91C	...	0.3	5	50	4	1	01C3706	16.530	11.700	11.120

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OPIA SERIES OPTOCOUPLEDERS



A subsidiary of TT electronics plc

OUTPUT TYPE - PHOTOTRANSISTOR

Mfg. Part No.	V _{ISO} (V)	IC (mA)	Pkg.	Tape Cut		Tape Reel	
				Stock No.	Price Each	Stock No.	Price Each
● OPIA400ATU	5000	50	4-PDIP	99M0621	0.253	99M0620	0.137
● OPIA400DTU	5000	50	4-PDIP	99M0622	0.253	...	...
● OPIA401BTU	3750	150	4-SSOP	99M0624	0.843	99M0623	0.425
● OPIA402BTU	3750	50	4-SSOP	99M0626	0.591	99M0625	0.302
● OPIA403BTU	3750	150	4-SSOP	99M0628	0.647	99M0627	0.329
● OPIA404BTU	3750	50	4-SSOP	99M0630	0.338	99M0629	0.179
● OPIA406CTU	2500	90	4-SSOP	99M0631	0.815	...	...
● OPIA407CTU	2500	50	4-SSOP	99M0632	0.591	...	...
● OPIA408CTU	2500	90	4-SSOP	99M0633	1.070	...	...
● OPIA409CTU	2500	60	4-SSOP	99M0634	1.240	...	...
● OPIA410ATUA	5000	50	4-PDIP	99M0636	0.478	99M0635	0.261
● OPIA410DTUA	5000	50	4-PDIP	99M0637	0.478	...	...
● OPIA411ATU	5000	80	4-PDIP	99M0639	0.647	99M0638	0.329
● OPIA411DTU	5000	80	4-PDIP	99M0640	0.647	...	...
● OPIA412ATU	5000	150	4-PDIP	99M0642	0.647	99M0641	0.329
● OPIA412DTU	5000	150	4-PDIP	99M0643	0.647	...	...
● OPIA413ATU	5000	50	4-PDIP	99M0645	1.130	99M0644	0.562
● OPIA413DTU	5000	50	4-PDIP	99M0646	1.130	...	...
● OPIA414BTUA	3750	50	4-SSOP	99M0648	1.300	99M0647	0.644
● OPIA500BTU	3750	8	5-PDIP	99M0650	1.350	99M0649	0.672
● OPIA600ATU	5000	5	6-PDIP	99M0653	0.338	99M0652	0.179
● OPIA600DTU	5000	5	6-PDIP	99M0654	0.338	...	...
● OPIA601ATU	5000	150	6-PDIP	99M0656	0.843	99M0655	0.425
● OPIA601DTU	5000	150	6-PDIP	99M0657	0.843	...	...
● OPIA602ATU	5000	150	6-PDIP	99M0659	0.675	99M0658	0.316
● OPIA602DTU	5000	150	6-PDIP	99M0660	0.647	...	...
● OPIA603ATU	5000	50	6-PDIP	99M0662	1.270	99M0661	0.631
● OPIA603DTU	5000	50	6-PDIP	99M0663	1.270	...	...
● OPIA604ATUA	5000	50	6-PDIP	99M0665	0.703	99M0664	0.357
● OPIA604DTUA	5000	50	6-PDIP	99M0666	0.703	...	...
● OPIA605ATU	5000	50	8-PDIP	99M0668	0.450	99M0667	0.233
● OPIA605DTU	5000	50	8-PDIP	99M0669	0.450	...	...
● OPIA800DTU	2500	60	8-PDIP	99M0670	1.040	...	...
● OPIA801DTU	2500	60	8-PDIP	99M0671	1.040	...	...
● OPIA802DTU	2500	8	8-PDIP	99M0672	1.040	...	...
● OPIA803DTU	2500	8	8-PDIP	99M0673	1.040
● OPID804DTU	2500	50	8-PDIP	99M0674	1.130

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HIGH-SPEED OPTOCOUPLEDERS



ANALOG HIGH-SPEED — 0.1MBd

Mfg. Part No.	Channels	CTR Min (%)	T _{FLH} Max (nS)	T _{FHL} Max (nS)	R _i (kΩ)	CMR typ (V/μs)	Package	Stock No.	Price Each	
									1-99	
● 6N138	1	300	10	35	2.2	500	8-DIP	35K5294	0.974	
● 6N139	1	500	25	60	4.7	500	8-DIP	35K3079	1.070	
● SFH6138	1	300	35	10	4.1	500	8-DIP	35K4882	0.974	
● SFH6139	1	500	60	25	1.9	500	8-DIP	35K0165	1.070	
● SFH6318T	1	300	35	10	1.9	1000	8-SOIC	35K4883	1.170	
● SFH6319T	1	500	60	25	4.1	1000	8-SOIC	21H7788	1.220	

ANALOG HIGH-SPEED — 1 MBd

● 6N135	1	5	0.3	0.3	2.2	1000	8-DIP	35K3077	0.876	
● 6N136	1	15	0.2	0.2	4.7	1000	8-DIP	35K3078	0.900	
● SFH6135	1	5	0.3	0.3	1.9	1000	8-DIP	35K4881	0.876	
● SFH6136	1	15	0.2	0.2	4.1	1000	8-DIP	35K0164	0.900	
● SFH6315T	1	5	2	2	1.9	1000	8-SOIC	21H7785	1.220	
● SFH6316T	1	15	1	1	4.1	1000	8-SOIC	21H7786	1.270	
● SFH636	1	15	0.8	0.8	1.9	10000	6-DIP	35K3225	2.070	
● SFH6343T	1	15	1	1	1.9	30000	8-SOIC	21H7791	1.410	
● SFH6345	1	15	0.8	0.8	4.1	30000	8-DIP	35K0167	1.340	
● SFH6325	2	5	1.5	1.5	1.9	1000	8-DIP	35K4884	1.580	
● SFH6326	2	15	0.8	0.8	1.9	1000	8-DIP	35K0166	1.580	

DIGITAL HIGH-SPEED — 5MBd

Mfg. Part No.	Channels	T _{RISE} Max (nS)	T _{FALL} Max (nS)	T _{PLH} Max (nS)	T _{FHL} Max (nS)	CMTI Min (V/μs)	Package	Stock No.	Price Each	
									1-99	
● SFH6700	1	40	10	115	90	1000	8-DIP	35K4885	1.370	
● SFH6701	1	40	10	115	90	1000	8-DIP	35K0168	1.370	
● SFH6702	1	40	10	115	90	1000	8-DIP	35K4886	1.370	
● SFH6705	1	25	4	115	90	1000	8-DIP	35K0169	1.510	
● SFH6720T	1	40	10	115	90	1000	8-SOIC	21H7809	1.580	
● SFH6711	1	40	10	115	90	2500	8-DIP	35K4887	1.510	
● SFH6712	1	40	10	115	90	2500	8-DIP	35K4888	1.510	
● SFH6719	1	40	10	115	90	2500	8-DIP	36K2044	1.510	
● SFH6721T	1	40	10	115	90	2500	8-SOIC	21H7810	1.580	
● SFH6731	2	40	10	115	90	1000	8-DIP	35K0170	2.020	
● SFH6732	2	40	10	115	90	5000	8-DIP	35K0171	2.020	

DIGITAL HIGH-SPEED — 10 MBd

● 6N137	1	23	7	75	75	100	8-DIP	52M1895	1.220	
● 6N137-X006	1	23	7	49	50	100	8-WDIP	23K1576	1.270	
● 6N137-X007T	1	23	7	49	50	100	8-SMD	23K1577	1.320	
● SFH6745T	1	23	7	49	50	100	8-SOIC	23K1162	1.710	
● SFH6745T	1	23	7	49	50	100	8-SOIC	23K1889	1.710	

CONTINUED

HIGH-SPEED OPTOCOUPLERS (CONT.)

DIGITAL HIGH-SPEED — 10 MBd

Mfg. Part No.	Channels	T _{RISE} Max (nS)	T _{FALL} Max (nS)	T _{PLH} Max (nS)	T _{PHL} Max (nS)	CMTI Min (V/μs)	Package	Stock No.	Price Each 1-99
● SFH6746T	1	23	7	49	50	5000	8-SOIC	23K1163	1.950
● SFH6746T	1	23	7	49	50	5000	8-SOIC	23K1891	1.950
● SFH6742	1	23	7	100	100	10000	8-DIP	23K1159	1.460
● SFH6747T	1	23	7	49	50	10000	8-SOIC	23K1164	2.070
● SFH6747T	1	23	7	49	50	10000	8-SOIC	23K1892	2.070
● V00600T	1	23	7	49	50	100	8-SOIC	43K9732	1.710
● V00601T	1	23	7	49	50	5000	8-SOIC	43K9733	1.950
● V00611T	1	23	7	49	50	10000	8-SOIC	43K9734	2.070
● V02601	1	23	7	49	50	5000	8-DIP	43K9735	1.340
● V02601-X006	1	23	7	49	50	5000	8-WDIP	43K9736	1.390
● V02601-X007T	1	23	7	49	50	5000	8-SMD	43K9737	1.440
● V02601-X017T	1	23	7	49	50	5000	8-DIP	43K9738	1.490
● V02611	1	23	7	49	50	10000	8-DIP	43K9739	1.460
● V02611-X006	1	23	7	49	50	10000	8-WDIP	43K9740	1.510
● V02611-X007T	1	23	7	49	50	10000	8-SMD	43K9741	1.560
● SFH6750	2	23	7	100	100	100	8-DIP	23K1165	2.070
● SFH6750	2	23	7	100	100	100	8-DIP	23K1892	2.070
● SFH6755T	2	23	7	49	50	100	8-SOIC	23K1172	2.560
● SFH6755T	2	23	7	49	50	100	8-SOIC	23K1894	2.560
● SFH6756T	2	23	7	49	50	5000	8-SOIC	23K1173	2.680
● SFH6756T	2	23	7	49	50	5000	8-SOIC	23K1895	2.680
● SFH6752	2	23	7	100	100	10000	8-DIP	23K1169	2.310
● SFH6757T	2	23	7	49	50	10000	8-SOIC	23K1174	2.800
● SFH6757T	2	23	7	49	50	10000	8-SOIC	23K1896	2.800
● V02630	2	23	7	49	50	100	8-DIP	43K9742	2.070
● V02630-X006	2	23	7	49	50	100	8-WDIP	43K9743	2.120
● V02630-X007T	2	23	7	49	50	100	8-SMD	43K9744	2.170
● V02631	2	23	7	49	50	5000	8-DIP	43K9745	2.190
● V02631-X006	2	23	7	49	50	5000	8-WDIP	43K9746	2.240
● V02631-X007T	2	23	7	49	50	5000	8-SMD	43K9747	2.290
● V04661	2	23	7	49	50	10000	8-DIP	43K9748	0.024
● V04661-X006	2	23	7	49	50	10000	8-WDIP	43K9749	0.024

(74706)

VACTROL® ANALOG OPTOISOLATORS



VTL5C

Provide low noise, infinitely variable resistor as output element. Resistance is inversely proportional to input drive current. Applications include: audio limiting and compression, automatic gain control, linear and DC isolators, SCR and TRIAC drives, logic interfacing and noiseless switching.

Mfg. Part No.	Output Resistance On		Turn-off (Decay) To 100 KΩ Max. (ms)	Stock No.	Price Each	
	Input Current (mA)	Dark Adapted Typ. (Ω)			1-49	50-99
VTL5C1	40	200	35	43F885	9.560	9.020
VTL5C2	40	200	500	43F886	7.420	7.000
VTL5C3	40	1500	35	43F887	9.860	9.300
VTL5C4	10	125	1500	43F888	8.490	8.010
VTL5C6	40	2000	50 (to 1MΩ)	43F889	13.320	12.570
VTL5C7	2	1100	1000	43F890	8.310	7.830
VTL5C8	16	1000	60	97F1140	14.580	13.750
VTL5C9	2	630	50	95F9033	16.240	15.320
VTL5C3/2	40	2000	50	97F1139	17.240	16.260
VTL5C4/2	10	150	1500	98F3997	19.160	18.070

(3774)

OPTOCOUPLERS WITH DARLINGTON OUTPUT



SMD - MF16

Mfg. Part No.	V _{IO} VAC	CTR/V _{IO} % Low	I _F (test) mA	I _F max. mA	V _{CEO} V	T _{ON} /T _{OFF} μs	R _L (Ω)	I _C mA	Stock No.	Price Each 1-99
● TCMD4000	3750	>600	5	60	>35	300/250	100	10	22H1087	1.580
SMD - S06L4										
● TCLD1000	5000	>600	5	60	>35	300/250	100	10	22H1075	0.381
SMD - SOIC8										
● IL221AT	3000	100	1	60	30	...	...	50	20H8790	0.657
● IL222AT	3000	200	1	60	30	...	...	50	20H8791	0.657
● IL223AT	3000	500	1	60	30	...	...	50	20H8792	0.657
● ILD223T	3000	500	1	60	30	...	...	50	20H8682	1.170

▶ CONTINUED ▶

OPTOCOUPLERS WITH DARLINGTON OUTPUT (CONT.)

TH - DIP16

Mfg. Part No.	V _{IO} VAC	CTR/V _{IO} % LOW	I _F (test) mA	I _F max. mA	V _{CEO} V	T _{ON} /T _{OFF} μs	R _L (Ω)	I _C mA	Stock No.	Price Each 1-99
● ILQ30	5300	100	10	60	30	10/35	100	125	58K1688	2.920
● ILQ31	5300	200	10	60	30	10/35	100	125	20H8738	2.990
● ILQ55	5300	100	10	60	55	10/35	100	125	58K1691	3.060
● ILQ66-1	5300	100	2	60	60	200	...	...	58K1698	2.600
● ILQ66-2	5300	300	2	60	60	200	...	...	20H8765	3.020
● ILQ66-3	5300	400	0.7	60	60	200	...	...	58K1699	3.380
● ILQ66-4	5300	500	2	60	60	200	...	...	58K1700	3.160
● ILQ32	5300	500	10	60	30	15/30	...	...	58K1689	2.800

TH - DIP6

Mfg. Part No.	V _{IO} VAC	CTR/V _{IO} % LOW	I _F (test) mA	I _F max. mA	V _{CEO} V	T _{ON} /T _{OFF} μs	R _L (Ω)	I _C mA	Stock No.	Price Each 1-99
● H11B1	5300	500	1	60	25	5/30	100	100	58K1624	0.755
● H11B2	5300	200	1	60	25	5/30	100	100	20H7528	0.731
● H11B3	5300	100	1	60	25	5/30	100	100	58K1625	0.731
● IL30	5300	100	10	60	30	10/35	100	125	20H8805	0.731
● IL31	5300	200	10	60	30	10/35	100	125	20H8826	0.755
● IL55	5300	100	10	60	30	10/35	100	125	20H8829	0.755
● IL66-1	5300	100	2	60	60	200	...	...	20H8894	1.030
● IL66-3	5300	400	0.7	60	60	200	...	...	20H8895	1.340
● IL66-4	5300	500	2	60	60	200	...	...	20H8896	1.560
● IL66B-1	5300	200	2	60	60	200	...	...	20H8898	1.320
● IL66B-2	5300	750	2	60	60	200	...	...	20H8899	1.320
● ILD30	5300	100	10	60	30	10/35	100	125	58K1668	1.750
● ILD31	5300	200	10	60	30	10/35	100	125	58K1669	1.780
● ILD55	5300	100	10	60	30	10/35	100	125	59K0211	1.800
● ILD66-3	5300	400	0.7	60	60	200	...	...	58K1680	1.830
● ILD66-4	5300	500	2	60	60	200	...	...	58K1681	1.710
● ILD32	5300	500	10	60	30	15/30	...	...	58K1670	1.660
● 4N32	5300	500	10	60	30	60	180	125	88K2145	0.307
● 4N33	5300	500	10	60	30	60	180	125	88K1390	0.307

(74705)

LINEAR OPTOCOUPLERS



8-SMT PACKAGE

Mfg. Part No.	Isolation Voltage (V _{RMS})	I _F (mA)	Transfer Gain Linearity (K3)	Stock No.	Price Each	
					1-99	100-499
● IL388	2500	30	0.69 to 1.311	14M5859	3.520	2.920

8-PDIP

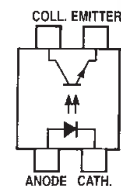
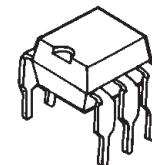
Mfg. Part No.	V _{IO} VAC	CTR/V _{IO} %	I _F (test) mA	I _F max. mA	V _{CEO} V	T _{ON} /T _{OFF} μs	R _L (Ω)	I _C mA	Stock No.	Price Each 1-99	Price Each 100-499
● IL300	5300	60	0.56 to 1.65	60	30	10/35	100	125	58K1707	3.170	2.630
● IL300-E	5300	60	0.851 to 0.955	60	30	10/35	100	125	58K1710	8.680	7.200
● IL300-F	5300	60	0.945 to 1.061	60	30	10/35	100	125	58K1712	8.680	7.200
● IL300-EF	5300	60	0.851 to 1.061	60	30	10/35	100	125	58K1711	5.070	4.210

(74702)

CNY SERIES OPTOCOUPLERS WITH PHOTOTRANSISTOR OUTPUT



- Applications:
- Switch-Mode Power Supplies
 - Line Receivers
 - Computer Peripheral Interfaces



CNY series optocouplers consist of a phototransistor optically coupled to a gallium arsenide infrared-emitting diode in a 6-lead plastic dual inline package. The elements are mounted on 1 leadframe using a coplanar technique, providing a fixed distance between input and output for highest safety requirements.

Mfg. Part No.	V _{IO} VAC	CTR min @ I _F (test) %	CTR max @ I _F (test) %	I _F max. mA	V _{CEO} V	t _{ON} /t _{OFF} μs	R _L Ω	I _C mA	Stock No.	Price Each 1-99
TH-DIL300-6										
● CNY17-1	5300	40	80	60	70	11/7	100	5	35C1609	0.317
● CNY17-2	5300	63	125	60	70	11/7	100	5	35C1610	0.317
● CNY17-3	5300	100	200	60	70	11/7	100	5	35C1611	0.317
● CNY17-4	5300	160	320	60	70	11/7	100	5	35C1612	0.317
TH-DIP6										
● CNY17F-1	5300	40	80	60	70	3/18	75	50	59K0133	0.317
● CNY17F-2	5300	63	125	60	70	4.2/23	75	50	58K0169	0.317
● CNY17F-3	5300	100	200	60	70	4.2/23	75	50	58K0172	0.317

▶ CONTINUED ▶

OPTOCOPLERS

CNY SERIES OPTOCOPLERS WITH PHOTOTRANSISTOR OUTPUT (CONT.)

TH-DIP6

Mfg. Part No.	V _{IO} VAC	CTR min @ I _f (test) %	CTR max @ I _f (test) %	I _f max. mA	V _{CEO} V	t _{on} /t _{off} μs	R _L Ω	I _C mA	Stock No.	Price Each
										1-99
● CNY17F-4	5300	160	320	60	70	6/25	75	50	58K0176	0.317
● CNY117-1	5300	40	80	60	70	3/18	75	50	23K0987	0.501
● CNY117-2	5300	63	125	60	70	4.2/23	75	50	23K0993	0.501
● CNY117-3	5300	100	200	60	70	4.2/23	75	50	23K0999	0.501
● CNY117-4	5300	160	320	60	70	6/25	75	50	23K1005	0.501
● CNY117F-1	5300	40	80	60	70	3/18	75	50	23K1011	0.501
● CNY117F-2	5300	63	125	60	70	4.2/23	75	50	23K1017	0.501
● CNY117F-3	5300	100	200	60	70	4.2/23	75	50	23K1023	0.501
● CNY117F-4	5300	160	320	60	70	6/25	75	50	23K1029	0.501

TH-HV-A

● CNY64	8000 (VDE)	50-300	300	75	>32	5/3	100	5	20H4911	1.620
● CNY64A	8000 (VDE)	63-125	300	75	>32	5/3	100	5	20H4912	1.700
● CNY64B	8000 (VDE)	100-200	300	75	>32	5/3	100	5	20H4913	1.760

TH-HV-B

● CNY65	8000 (VDE)	50-300	300	75	>32	5/3	100	5	20H4914	1.620
● CNY65A	8000 (VDE)	63-125	300	75	>32	5/3	100	5	20H4915	1.700
● CNY65B	8000 (VDE)	100-200	300	75	>32	5/3	100	5	20H4916	1.760
● CNY65EXI	11600 (VDE)	50-300	300	75	>32	5/3	100	5	20H4917	5.370

TH-HV-C

● CNY66	8000 (VDE)	50-300	300	75	>32	5/3	100	5	20H4918	2.690
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SFH SERIES OPTOCOPLERS WITH PHOTOTRANSISTOR OUTPUT



SMD-DIP4-9

Mfg. Part No.	V _{IO} VAC	CTRmin @ I _f (test) %	CTRmax @ I _f (test) %	I _f (test) mA	I _f max. mA	V _{CEO} V	Stock No.	Price Each
								1-99
● SFH6106-1	5300	40	80	1	60	70	58K2191	0.588
● SFH6106-2	5300	63	125	1	60	70	60K6772	0.615
● SFH6106-3	5300	100	200	1	60	70	58K2192	0.615
● SFH6106-4	5300	160	320	1	60	70	58K2193	0.615
● SFH6156-1	5300	40	80	1	60	70	58K2201	0.418
● SFH6156-2	5300	63	125	1	60	70	58K2203	0.418
● SFH6156-3	5300	100	200	1	60	70	69K0186	0.418
● SFH6156-4	5300	160	320	1	60	70	58K2204	0.418
● SFH6186-2	5300	63	125	1	50	55	58K2210	0.588
● SFH6186-3	5300	100	200	1	50	55	21H7751	0.588
● SFH6186-4	5300	160	320	1	50	55	21H7753	0.588
● SFH6186-5	5300	250	500	1	50	55	58K2211	0.588
● SFH1617A-1	5300	40	80	10	60	70	23K1132	1.150
● SFH1617A-2	5300	63	125	10	60	70	23K1138	1.150
● SFH1617A-3	5300	100	200	10	60	70	23K1144	1.150
● SFH1617A-4	5300	160	320	10	60	70	23K1150	1.150

SMD-MF16-1

● SFH6916	3750	50	300	5	50	70	21H7817	3.970
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SMD-SOP4MF

● SFH690ABT	3750	50	300	5	50	70	58K2221	0.370
● SFH690AT	3750	50	150	5	50	70	21H7814	0.418
● SFH690BT	3750	100	300	5	50	70	59K0261	0.418
● SFH1690ABT	3750	50	300	5	50	70	23K1156	0.888
● SFH1690AT	3750	50	150	5	50	70	23K1157	0.990
● SFH1690BT	3750	100	200	5	50	70	43K9391	0.466
● SFH1690CT	3750	100	300	5	50	70	43K9392	0.466

TH-DIP4

● SFH610A-1	5300	40	80	10	60	70	58K2187	0.588
● SFH610A-2	5300	63	125	10	60	70	58K2188	0.615
● SFH610A-3	5300	100	200	10	60	70	58K2189	0.615
● SFH610A-4	5300	160	320	10	60	70	58K2190	0.615
● SFH617A-1	5300	40	80	10	60	70	58K2205	0.492
● SFH617A-2	5300	63	125	10	60	70	58K2206	0.492
● SFH617A-3	5300	100	200	10	60	70	58K2207	0.492
● SFH617A-4	5300	160	320	10	60	70	58K2208	0.492
● SFH614A	5300	50	...	10	60	300	21H7710	0.778
● SFH615A-1	5300	40	80	10	60	70	58K2195	0.418
● SFH615A-2	5300	63	125	10	60	70	58K2196	0.418
● SFH615A-3	5300	100	200	10	60	70	58K2197	0.418
● SFH615A-4	5300	160	320	10	60	70	58K2199	0.418
● SFH615AA	5300	50	600	5	60	70	58K2200	0.370
● SFH615ABL	5300	200	600	5	60	70	21H7721	0.408

CONTINUED

SFH SERIES OPTOCOPLERS WITH PHOTOTRANSISTOR OUTPUT (CONT.)

TH-DIP4

Mfg. Part No.	V _{IO} VAC	CTRmin @ I _f (test) %	CTRmax @ I _f (test) %	I _f (test) mA	I _f max. mA	V _{CEO} V	Stock No.	Price Each
								1-99
● SFH615AGB	5300	100	600	5	60	70	21H7722	0.370
● SFH615AGR	5300	100	300	5	60	70	21H7724	0.370
● SFH618A-2	5300	63	125	1	50	55	21H7744	0.588
● SFH618A-3	5300	100	200	1	50	55	58K2209	0.588
● SFH618A-4	5300	160	320	1	50	55	21H7746	0.588
● SFH618A-5	5300	250	500	1	50	55	59K0259	0.588

4N SERIES OPTOCOPLERS WITH PHOTOTRANSISTOR OUTPUT



TH-DIL300-6

Mfg. Part No.	V _{IO} VAC	CTR/V _{IO} @ I _C /I _F min. (%)	I _F (test) mA	I _F max. mA	V _{CEO} V	T _{ON} /T _{OFF} μs	R _L (Ω)	I _C mA	Stock No.	Price Each
										1-99
● 4N25V	6000 (VDE)	100 (>20)	10	60	>732	11 / 7	100	2	88K1386	0.309
● 4N35V	6000 (VDE)	150 (>100)	10	60	>70	10 / 10	100	2	93K7638	0.309

TH-DIL400-6

● 4N35GV	6000 (VDE)	150 (>100)	10	60	>70	10 / 10	100	2	88K1395	0.309
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TH-DIP-6

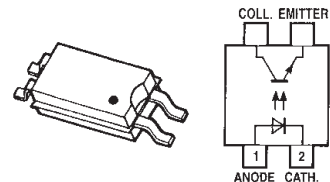
● 4N25	5300	20	10	60	>32	4 / 3	100	10	88K1384	0.285
● 4N26	5300	20	10	60	>32	4 / 3	100	10	88K2144	0.285
● 4N27	5300	100 (>20)	10	60	>32	4 / 3	100	10	88K1388	0.285
● 4N28	5300	100 (>20)	10	60	>32	4 / 3	100	10	88K1389	0.285
● 4N35	5300	150 (>100)	10	60	>32	5.5 / 4.5	100	2	88K1392	0.285
● 4N36	5300	150 (>100)	10	60	>32	5.5 / 4.5	100	2	88K1396	0.285
● 4N37	5300	150 (>100)	10	60	>32	5.5 / 4.5	100	2	88K1397	0.285
● 4N38	5300	10	10	60	>32	5.5 / 4.5	100	2	22H5494	0.294

TCMT SERIES OPTOCOPLERS WITH TRANSISTOR OUTPUT



Applications:

- Programmable Logic Controllers
- Modems
- Answering Machines and General Usage



TCMT series optocouplers consist of a phototransistor optically coupled to a gallium arsenide infrared-emitting diode in a 4-lead plastic Miniflat package. The elements are mounted on 1 leadframe using a coplanar technique, providing a fixed distance between input and output for highest safety requirements. Collector emitter voltage/repetitive peak voltage: >70.

SMD - MF16

Mfg. Part No.	V _{IO} VAC	CTR/V _{IO} (% _{LOW})	I _F (test) mA	V _{CEO} V	T _{ON} /T _{OFF} μs	R _L (Ω)	I _C mA	Stock No.	Price Each
									1-99
● TCMT4100	3750	50-600	5	>70	6/5	100	2	06H1639	1.450

SMD - MF4

● TCMT1100	3750	50-600	5	>70	6/5	100	2	35C2106	0.362
● TCMT1102	3750	63-125	10	>70	6/5	100	2	35C2108	0.362
● TCMT1103	3750	100-200	10	>70	6/5	100	2	35C2109	0.362
● TCMT1104	3750	160-320	10	>70	6/5	100	2	35C2110	0.362
● TCMT1105	3750	50-150	5	>70	6/5	100	2	35C2111	0.362
● TCMT1106	3750	100-300	5	>70	6/5	100	2	35C2112	0.362
● TCMT1107	3750	80-160	5	>70	6/5	100	2	35C2113	0.362
● TCMT1108	3750	130-260	5	>70	6/5	100	2	35C2114	0.362
● TCMT1109	3750	200-400	5	>70	6/5	100	2	35C2115	0.362

(69156)

OPTOCOUPLERS

OPTOCOUPLERS WITH AC INPUT AND TRANSISTOR OUTPUT



SMD - DIP4-9

Mfg. Part No.	V _{IO} VAC	CTR min @ I _F (test) (%)	CTR max @ I _F (test) (%)	I _F (test) (mA)	I _F max. (mA)	V _{CEO} (V)	T _{ON} /T _{OFF} (μs)	R ₁ (Ω)	Stock No.	Price Each
● SFH6206-1	5300	40	125	10	60	70	3/2.3	75	21H7770	0.488
● SFH6206-2	5300	63	200	10	60	70	3/2.3	75	60K6774	0.488
● SFH6206-3	5300	100	320	10	60	70	3/2.3	75	58K2214	0.488
● SFH6286-2	5300	63	125	1	50	55	6/5.5	100	21H7780	0.731
● SFH6286-3	5300	100	200	1	50	55	6/5.5	100	58K2216	0.731
● SFH6286-4	5300	160	320	1	50	55	6/5.5	100	58K2217	0.731

SMD - MF16

● TCMT4600	3750	80	300	5	60	>70	6/5	100	22H1089	1.580
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SMD - MF4

● TCMT1600	3750	80	300	5	60	>70	6/5	100	22H1088	0.395
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SMD - SO6L4

● TCLT1600	5000	80	300	5	60	>70	6/5	100	22H1085	0.395
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SMD - SOIC8

● IL256AT	3000	20	...	10	60	30	20H8804	0.731
● ILD256T	3000	20	...	10	30	70	20H8687	1.120

TH - DIL300-16

● K814P	5000	>20	300	5	60	>70	6/5	100	21H0422	0.276
● TCET2600	8000	>20	300	5	60	5	60	100	22H1069	0.807

TH - DIL300-4

● K824P	5000	>20	300	5	60	>70	6/5	100	21H0434	0.610
● TCET1600G	8000 (VDE)	>20	300	5	60	>70	6/5	100	22H1064	0.276

TH - DIL300-8

● K844P	5000	>20	300	5	60	>70	6/5	100	21H0437	1.220
● TCET4600	8000 (VDE)	>20	300	5	60	>70	6/5	100	22H1073	1.620

TH - DIL400-4

● TCET1600	8000 (VDE)	>20	300	5	60	>70	6/5	100	22H1063	0.276
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TH - DIP-16

● ILQ620GB	5300	50	600	5	60	70	58K1695	3.280
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TH - DIP4

● SFH620A-1	5300	40	125	10	60	70	3/2.3	75	21H7759	0.488
● SFH620A-2	5300	63	200	10	60	70	3/2.3	75	21H7761	0.488
● SFH620A-3	5300	100	320	10	60	70	3/2.3	75	58K0260	0.488
● SFH620AA	5300	50	600	5	60	70	2/2.5	...	58K2212	0.488
● SFH620AGB	5300	100	600	5	60	70	2/2.5	...	58K2213	0.488
● SFH628A-2	5300	63	125	1	60	70	6/5.5	100	21H7776	0.731
● SFH628A-3	5300	100	200	1	60	70	6/5.5	100	62K3462	0.731
● SFH628A-4	5300	160	320	1	60	70	6/5.5	100	58K2215	0.731

TH - DIP6

● H11AA1	5300	20	...	10	60	30	...	...	58K1620	0.779
● IL250	5300	50	...	10	60	30	...	...	58K1705	0.900
● IL251	5300	20	...	10	60	30	...	...	20H8796	0.974
● IL252	5300	100	...	10	60	30	...	...	58K1706	1.030
● IL255	5300	20	...	10	130	30	...	...	20H8800	1.270
● IL255-1	5300	20	80	100	130	30	...	...	20H8802	1.460
● IL755-1	5300	750	...	2	60	60	50	...	58K1727	1.290
● IL755-2	5300	1000	...	1	60	60	70	...	20H8905	1.510
● IL766-1	5300	500	...	2	60	60	100	...	20H8908	1.290
● IL766B-1	5300	400	...	1	60	60	200	...	20H8910	1.290
● IL766B-2	5300	900	...	0.5	60	60	200	...	58K1729	1.510

TH - DIP8

● ILD250	5300	20	...	19	60	30	...	...	58K1666	2.310
● ILD251	5300	20	...	10	60	30	...	...	58K1667	2.560
● ILD252	5300	100	...	10	60	30	50	...	20H8685	3.040
● ILD755-1	5300	750	...	2	60	60	70	...	58K1683	2.430
● ILD755-2	5300	1000	...	1	60	60	100	...	58K1684	3.790
● ILD766-1	5300	500	...	2	60	60	100	...	20H8727	2.680
● ILD766-2	5300	500	...	1	60	60	...	...	58K1685	4.040
● ILD620	5300	50	600	5	60	70	...	...	58K1676	1.580
● ILD620GB	5300	100	600	5	60	70	...	...	58K1677	1.750

(74707)

IL SERIES OPTOCOUPLERS WITH TRANSISTOR OUTPUT



SMD - SOIC8

Mfg. Part No.	V _{IO} VAC	CTRmin @ I _F (test) (%)	CTRmax @ I _F (test) (%)	I _F test (mA)	I _F max. (mA)	V _{CEO} (V)	Stock No.	Price Each
● IL205AT	3000	40	80	10	60	70	20H8780	0.560 0.470
● IL206AT	3000	63	125	10	60	70	20H8781	0.560 0.470
● IL207AT	3000	100	200	10	60	70	20H8782	0.560 0.470
● IL208AT	3000	160	320	10	60	70	20H8783	0.560 0.470
● IL211AT	3000	20	50	10	60	30	20H8784	0.560 0.470
● IL212AT	3000	50	80	10	60	30	20H8785	0.560 0.470
● IL213AT	3000	100	130	10	60	30	20H8786	0.560 0.470
● IL215AT	3000	20	50	1	60	30	20H8787	0.610 0.512
● IL216AT	3000	50	80	1	60	30	20H8788	0.610 0.512
● IL217AT	3000	100	130	1	60	30	20H8789	0.610 0.512
● IL1205AT	4000	40	80	10	60	70	23K1058	1.320 1.160
● IL1206AT	4000	63	125	10	60	70	23K1059	1.320 1.160
● IL1207AT	4000	100	200	10	60	70	23K1060	1.320 1.160
● IL1208AT	4000	160	320	10	60	70	23K1061	1.320 1.160
● ILD205T	3000	40	80	10	30	70	20H8678	0.802 0.674
● ILD206T	3000	63	125	10	30	70	01H7271	0.802 0.674
● ILD207T	3000	100	200	10	30	70	97C8648	0.802 0.674
● ILD211T	3000	20	...	10	30	70	20H8679	0.802 0.674
● ILD213T	3000	100	...	10	30	70	20H8680	0.802 0.674
● ILD217T	3000	100	...	10	30	70	20H8681	0.852 0.716
● ILD1205T	4000	40	80	10	30	70	23K1037	1.850 1.620
● ILD1206T	4000	63	125	10	30	70	23K1038	1.850 1.620
● ILD1207T	4000	100	200	10	30	70	20K7469	1.850 1.620

SMD - SOP8 MF-HS

● IL352	3000	100	...	10	60	30	20H8829	7.740 6.500
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TH - DIP16

● ILQ74	5300	12	...	16	60	20	58K1701	3.040 2.560
● ILQ615-1	5300	40	80	10	60	70	20H8746	2.430 2.050
● ILQ615-2	5300	63	125	10	60	70	62K3435	2.310 1.940
● ILQ615-3	5300	100	200	10	60	70	58K1692	2.310 1.940
● ILQ615-4	5300	160	320	10	60	70	20H8750	2.430 2.050
● ILQ621	5300	50	600	5	60	70	58K1696	2.310 1.940
● ILQ621GB	5300	100	600	5	60	70	58K1697	2.430 2.050
● ILQ615-1	5300	40	80	10	60	70	23K1050	5.370 4.710
● ILQ615-2	5300	63	125	10	60	70	23K1052	5.100 4.480
● ILQ615-3	5300	100	200	10	60	70	23K1054	5.100 4.480
● ILQ615-4	5300	160	320	10	60	70	23K1056	5.370 4.710

TH - DIP6

● IL1	5300	20	300	10	60	50	58K1702	0.584 0.490
● IL2	5300	100	500	10	60	70	58K1703	0.633 0.532
● IL5	5300	50	400	10	60	70	58K1726	0.584 0.490
● IL201	5300	75	150	10	60	50	20H8775	2.000 1.760
● IL202	5300	125	250	10	60	70	20H8776	0.974 0.818
● IL74	5300	12	...	16	60	20	59K0216	0.584 0.490

TH - DIP8

● ILD74	5300	12	...	16	60	20	58K1682	1.100 0.920
● ILCT6	5300	20	...	10	60	30	58K1630	0.610 0.512
● MCT6	5300	20	...	10	60	30	58K1824	0.809 0.678
● ILD1	5300	20	300	10	60	50	58K1663	0.924 0.776
● ILD2	5300	100	500	10	60	70	60K5997	0.974 0.818
● ILD5	5300	50	400	10	60	70	58K1671	1.440 1.210
● ILD615-1	5300	40	80	10	60	70	58K1673	1.120 0.939

OPTOCOUPLED

K8 SERIES OPTOCOUPLEDERS WITH TRANSISTOR OUTPUT



TH - DIL300-16

Mfg. Part No.	V _{IO} VAC	CTR/V ₀ @ I _C /I _F min. (%)	I _F (test) mA	V _{CEO} V	T _{ON} /T _{OFF} μs	R _{th} (°C)	I _C mA	Stock No.	Price Each
● K817P	5000	50-600	5	>70	6/5	100	2	21H0424	0.229
● K817P1	5000	40-80	10	>70	6/5	100	2	21H0425	0.260
● K817P2	5000	63-125	10	>70	6/5	100	2	21H0426	0.229
● K817P3	5000	100-200	10	>70	6/5	100	2	21H0427	0.246
● K817P4	5000	160-320	10	>70	6/5	100	2	21H0428	0.260
● K817P5	5000	50-150	5	>70	6/5	100	2	21H0429	0.229
● K817P6	5000	100-300	5	>70	6/5	100	2	21H0430	0.229
● K817P7	5000	80-160	5	>70	6/5	100	2	21H0431	0.229
● K817P8	5000	130-260	5	>70	6/5	100	2	21H0432	0.260
● K817P9	5000	200-400	5	>70	6/5	100	2	21H0433	0.291

TH-DIL300-4

● K827PH	5000	50-600	5	>70	6/5	100	2	21H0436	1.510
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TH-DIL300-8

● K847PH	5000	50-600	5	>70	6/5	100	2	21H0439	0.974
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(74711)

MC AND MOC SERIES OPTOCOUPLEDERS WITH TRANSISTOR OUTPUT



TH - DIL300-8

Mfg. Part No.	V _{IO} VAC	CTR/V ₀ Low	I _F (test) mA	I _F max. mA	V _{CEO} V	Stock No.	Price Each	
● MCT6H	5300	>60	10	60	>70	21H1292	0.809	0.678
● MCT62H	5300	>100	5	60	>70	21H1293	0.492	0.412

TH - DIP-6

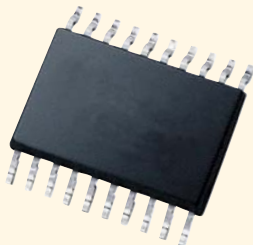
● H11A3	5300	20	10	60	70	58K1622	0.442	0.370
● SFH600-1	5300	63	10	60	70	58K2178	0.320	0.268
● MCT272	5300	75	10	60	30	58K1819	0.662	0.554
● MCT277	5300	100	10	60	30	21H1283	0.808	0.677
● MCT5210	5300	70	3	60	70	58K1822	0.908	0.760
● MCT5211	5300	110	1	60	70	58K1823	0.932	0.780
● MOC8101	5300	50	10	60	30	21H2203	0.370	0.310
● MOC8102	5300	73	10	60	30	58K1957	0.370	0.310
● MOC8103	5300	108	10	60	30	58K1958	0.370	0.310
● MOC8104	5300	160	10	60	30	60K6271	0.370	0.310
● MOC8105	5300	65	10	60	30	21H2214	0.370	0.310
● MOC8111	5300	20	10	60	30	21H2215	0.418	0.350

TH - DIP-8

● MCT6	5300	20	10	60	30	58K1824	0.809	0.678
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(74712)

Huge Expanded Selection of Semiconductors

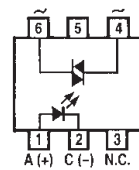
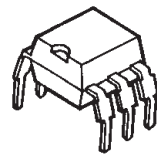


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(148844)

OPTOCOUPLEDERS WITH TRIAC/SCR OUTPUT



TH-DIL300-6

Mfg. Part No.	V _{IO} (VAC)	I _F (max.) (mA)	V _{DRM} (max.) (V)	Dv/dt V/μs	Stock No.	Price Each
● K3010P	6000 (VDE)	<15	250	10	21H0411	0.503
● K3011P	6000 (VDE)	<10	250	10	21H0413	0.519
● K3012P	6000 (VDE)	<5	250	10	21H0415	0.538
● K3020P	6000 (VDE)	<30	400	10	35C1755	0.503
● K3021P	6000 (VDE)	<15	400	10	35C1756	0.519
● K3022P	6000 (VDE)	<10	400	10	35C1757	0.538
● K3023P	6000 (VDE)	<5	400	10	35C1758	0.555
● K3036P	6000 (VDE)	<3.6	400	10	21H0421	0.617

TH-DIL400-6

● K3010PG	6000 (VDE)	<15	250	10	21H0412	0.503
● K3011PG	6000 (VDE)	<10	250	10	21H0414	0.519
● K3012PG	6000 (VDE)	<5	250	10	21H0416	0.538
● K3020PG	6000 (VDE)	<30	400	10	21H0417	0.503
● K3021PG	6000 (VDE)	<15	400	10	21H0418	0.519
● K3022PG	6000 (VDE)	<10	400	10	21H0419	0.538
● K3023PG	6000 (VDE)	<5	400	10	21H0420	0.555

TH-DIP6

Mfg. Part No.	V _{IO} (VAC)	I _F (min.) (mA)	I _F (test) (mA)	Dv/dt V/μs	Stock No.	Price Each
● IL410	5300	2	60	10000	58K1715	2.800
● IL420	5300	2	60	10000	58K1719	2.800
● IL4208	5300	2	60	10000	58K1722	3.040
● IL440-4	5300	15	60	10	20H8882	0.974
● IL440-5	5300	10	60	10	20H8884	0.998
● IL440-6	5300	5	60	10	20H8885	1.050
● IL4116	5300	1.3	60	10000	58K1717	3.040
● IL4117	5300	1.3	60	10000	20H8851	3.360
● IL4118	5300	1.3	60	10000	58K1718	3.840
● IL4216	5300	1.3	60	10000	58K1723	3.040
● IL4217	5300	1.3	60	10000	58K1724	3.360
● IL4218	5300	1.3	60	10000	59K0215	3.840

(89157)

PHOTOTRIAC OPTOCOUPLEDERS



Features

- Phototriac output
- Forward voltage: 1.2 V
- Isolation test voltage: 5000 V_{RMS}

Applications

- Industrial controls
- Office equipment
- Consumer appliances

VO series consist of a GaAs IRLLED optically coupled to a photosensitive TRIAC.

ZERO CROSSING

Mfg. Part No.	Blocking Voltage (V)	LED Trigger Current (mA)	dV/dt (kV/μs)	Package	Stock No.	Price Each
● V03062	600	5	1.5	6-DIP	93K1111	0.920
● V03063	600	5	1.5	6-DIP	93K1114	0.970
● V04154D	400	1.6	5	6-DIP	93K1117	0.034
● V04154H	400	2	5	6-DIP	93K1120	0.034
● V04154M	400	3	5	6-DIP	93K1123	0.034
● V04156D	600	1.6	5	6-DIP	93K1126	0.034
● V04156H	600	2	5	6-DIP	93K1129	0.034
● V04156M	600	3	5	6-DIP	93K1132	0.034
● V04157D	700	1.6	5	6-DIP	93K1135	0.034
● V04157H	700	1.6	5	6-DIP	93K1138	0.034
● V04157M	700	1.6	5	6-DIP	93K1141	0.034
● V04158D	800	2	5	6-DIP	93K1144	0.034
● V04158H	800	2	5	6-DIP	93K1147	0.034
● V04158M	700	3	5	6-DIP	93K1150	0.034

NON-ZERO CROSSING

● V04254D	400	1.6	5	6-DIP	93K1153	0.034
● V04254H	400	2	5	6-DIP	93K1156	0.034
● V04254M	400	3	5	6-DIP	93K1159	0.034
● V04256D	600	1.6	5	6-DIP	93K1162	0.034
● V04256H	600	2	5	6-DIP	93K1165	0.034
● V04256M	600	3	5	6-DIP	93K1168	0.034

CONTINUED

OPTOCOUPLERS • PHOTOCONDUCTOR CELLS • PHOTODIODES

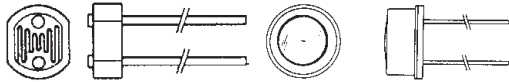
PHOTOTRIAC OPTOCOUPLERS (CONT.)

NON-ZERO CROSSING

Mfg. Part No.	Blocking Voltage (V)	LED Trigger Current (mA)	dV/dt (kV/us)	Package	Stock No.	Price Each
● VQ4257D	700	1.6	5	6-DIP	93K1171	0.034
● VQ4257H	700	2	5	6-DIP	93K1174	0.034
● VQ4257M	700	3	5	6-DIP	93K1177	0.034
● VQ4258D	800	1.6	5	6-DIP	93K1180	0.034
● VQ4258H	800	2	5	6-DIP	93K1183	0.025
● VQ4258M	800	3	5	6-DIP	93K1186	0.025

(94561)

CdS PHOTOCONDUCTIVE CELLS

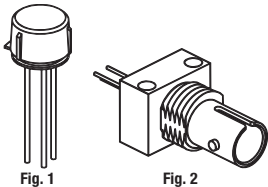


Economy solutions for many light level sensing applications: mfg. part no. VT43N3 for street lights; mfg. part no. VT90N2 for night lights; mfg. part no. VT935G for toys and cameras; mfg. part no. VT90N2 for low light detection; mfg. part no. VT33N1 for photocopies; mfg. part no. VT50N3 for flame detection.

Mfg. Part No.	Resistance (kOhms)				Stock No.	Price Each	
	10 lux 2850k		Dark			1-49	50-99
VT20N1	8	24	200	5	99F4264	6.560	6.160
VT20N2	16	52	500	5	96F9261	7.650	7.180
VT30N1	6	18	200	5	99F5100	7.540	7.080
VT33N1	20	60	200	5	96F9262	9.190	8.630
VT43N3	16	48	500	30	96F9263	1.600	1.500
VT50N3	16	48	1000	5	96F9264	7.790	7.320
VT80N1	4	12	100	5	99F3724	1.660	1.560
VT90N1	6	18	200	5	99F4265	0.420	0.395
VT90N2	12	36	500	5	01F124	0.392	0.369
VT93N2	24	72	500	5	99F5218	0.392	0.369
VT935G*	10	27	1000	10	95F9039	0.336	0.316
	20	38	1000	10			
	31	50	1000	10			

*This device meets one of the three specification groups listed. The actual mix of parts will vary in each order. (3771)

PIN PHOTODIODES



A subsidiary of TT electronics plc



Mfg. Part No.	Fig.	Package Style	Responsivity (A/W)		Rise/Fall Time (ns)	Stock No.	Price Each
			Min.	Typ.			1-9
● OPF470	1	TO-46, Plastic Lens Cap	0.5	0.55	6.0	08F2852	10.290
● OPF472	2	ST Receptacle	0.45	0.55	6.0	08F2854	18.600
● OPF432	2	ST Receptacle	0.45	0.55	1.0	08F2851	34.870

(73901)

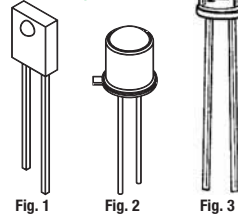
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(148888)

PHOTODIODES

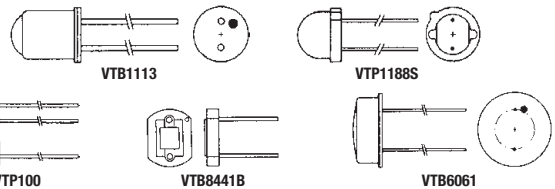


A subsidiary of TT electronics plc

Mfg. Part No.	Fig.	Beam Angle	I _d Min. (μA)	V _R (V)	E _e (mW/cm ²)	Stock No.	Price Each		
							1-99	100-249	250-499
● OP950	1	95°	8	5	1	91F1840	0.789	0.653	0.595
● OP955	1	90°	8	5	1	91F1841	0.905	0.749	0.683
● OP913WSL	2	60°	40	5	5	08F3055	8.800	7.280	6.640
● OP999	2	18°	6.5	5	0.25	91F1843	0.952	0.788	0.718
● OP993	3	118°	12.5	5	1.7	91F1842	0.882	0.730	0.665

(13169)

SILICON PHOTODIODES

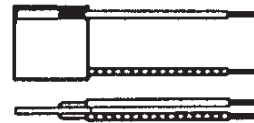


Optical detectors for sensing in such applications as bar code scanners, brightness controls, encoders, copier toner density, optical communications, headlight dimmers, etc. Suffix B in mfg. part no. denotes device incorporates an infrared rejection filter.

Mfg. Part No.	Package	Min. (μA)	Typ. (μA)	I _d Max.	@ V _R	Stock No.	Price Each	
							1-49	50-99
● VTB-1013BH	TO-46	.8	1.3	20pA	2V	79K2449	6.770	6.430
● VTB1113H	TO-46 Lensed	30	60	20pA	2V	79K2457	4.890	4.640
● VTB5051BH	TO-5 Hermetic	8	13	250pA	2V	79K2459	42.140	40.020
● VTB8441BH	8mm Ceramic	4	5	100pA	2V	79K2473	4.250	4.040
● VTP100CH	Flt. Sidelooker	35	55	30nA	10V	79K2519	1.650	1.560
● VTP1188SH	Lens Ceramic	...	200	30nA	10V	79K2522	1.800	1.710
● VTB6061H	TO-8 Hermetic	260	350	2nA	2V	79K2466	36.730	34.890
● VTD34H	Mini DIP	50	70	30nA	10V	79K2486	1.980	1.880
● VTP413H	Lensed Sidelooker	...	75	30nA	10V	79K2531	1.760	1.670

(3776)

PHOTODIODES WITH SOLDERABLE CONTACTS



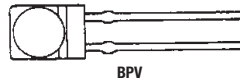
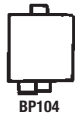
Mfg. Part No.	Active Area in ² (mm ²)	Open Circuit Voltage V _{OC} * Typ. (V)	Dark Current I _d † Max. (μA)	Stock No.	Price Each	
					1-4	5-9
● VTS3085H	0.035 (22.4)	0.45	0.1	79K2560	4.530	4.040
● VTS3082H	0.138 (88.9)	0.45	0.2	79K2557	11.240	10.020

*@2850K, 1000lux; †@H = 0, V_R = 100mV (3777)

PHOTODIODES • PHOTOMICROSENSORS

DETECTORS PHOTO PIN DIODES

Diodes have filter matched for GaAs IREDs.



PIN PHOTODIODES

Mfg. Part No.	Peak Wavelength (nm)	Bandwidth (nm)	Sensitivity (µA)	Angle of Half Sensitivity (°)	Photo Area (mm ²)	Rise and Fall Time (µs)	Package	Stock No.	Price Each	
									1-99	100-499
● BPV10	920	570-1040	85	20	0.78	2.5	5 mm, T-1 3/4	32C9134	0.588	0.494
● BPV10NF	940	790-1050	55	20	0.78	2.5	5 mm, T-1 3/4	32C9136	0.588	0.494
● BP104	950	870-1050	45	65	7.50	100	Top View	14M4504	0.691	0.580
● BPW34	900	600-1050	75	65	7.50	100	Top View	32C9150	0.719	0.604
● BPW24R	900	600-1050	60	12	0.78	7	T0-18	32C9149	3.260	2.740
● BPV22F	950	870-1050	80	60	7.50	100	Side View	95B4213	0.660	0.554
● BPV22NFL	940	790-1050	85	60	7.50	100	Side View	32C9142	0.660	0.554
● BPV23FL	950	870-1050	63	60	5.70	70	Side View	32C9143	0.612	0.514
● BPW41N	950	870-1050	45	65	7.50	100	Side View	32C9151	0.612	0.514
● BPW46	900	600-1050	75	65	7.50	100	Side View	32C9152	0.643	0.540
● BPW82	950	790-1050	45	65	7.50	100	Side View	32C9157	0.643	0.540

SURFACE MOUNT PIN PHOTODIODES

● TEMD1000	900	840-1050	10	15	0.25	4	1.9 mm	58K2402	0.514	0.432
● TEMD5010X01	900	600-1050	55	65	7.50	100	4.0 x 5.0 mm	54K7187	1.010	0.848
● TEMD5020X01	900	600-1050	35	65	5.70	100	4.0 x 5.0 mm	54K7188	0.960	0.806
● TEMD5110X01	940	790-1050	55	65	7.50	100	4.0 x 5.0 mm	54K7189	1.010	0.848
● TEMD5120X01	940	790-1050	35	65	5.70	100	4.0 x 5.0 mm	54K7190	0.960	0.806

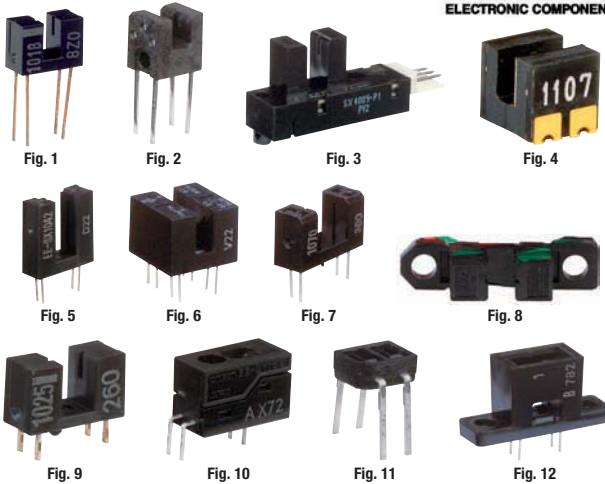
SILICON PN PHOTODIODE

● BPW20RF	920	550-1040	60	50	7.5	3400/3700	Short T0-5	93C9593	8.850	6.070
● BPW21R	565	420-675	9	50	7.5	3100/3000	Short T0-5	32C9148	16.610	11.380

(52592)

4

PHOTOMICROSENSORS — NONAMPLIFIED



- Output Configuration: Phototransistor
- Non-Modulated, Except for Mfg. Part No. EE-SX-198 (Optical Modulation)

TRANSMISSIVE SENSING METHOD

Mfg. Part No.	Fig.	Sensing Distance (mm)	Terminal Type	On/Off Type	Aperture Orientation, Width (mm)	Slot Width/Depth (mm)	Stock No.	Price Each
● EE-SG3	12	3.6	Solder	4/4	Hor., 0.2	3.6/9	36K7268	3.980
● EE-SG3-B	12	3.6	PC Board	4/4	Hor., 0.2	3.6/9	90B9375	3.980
● EE-SH3	8	...	Solder	4/4	Hor., 0.5	3.4/7.2	36K7269	3.970
● EE-SV3	...	...	Solder	4/4	Hor., 0.5	3.4/7.2	36K3211	4.920
● EE-SV3-B	...	...	PC Board	4/4	Hor., 0.5	3.4/7.2	35K4492	3.910
● EE-SX1018	1	2	PC Board	4/4	Hor., 0.5	2/4.5	39K9776	1.850
● EE-SX1041	1	5	PC Board	4/4	Hor., 0.5	5/8.2	36K3212	1.850
● EE-SX1071	1	3.4	PC Board	4/4	Hor., 0.5	3.4/7.2	36K7271	1.850
● EE-SX198	1	3	PC Board	4/4	Hor., 0.5	3/7.5	35K4494	1.820
● EE-SX199	1	3	PC Board	4/4	Hor., 0.5	3/7.5	36K3216	1.850
● EE-SX1103	2	2	PC Board	10/10	Hor., 0.4	2/2.8	36K1923	1.350
● EE-SX1105	2	2	PC Board	10/10	Hor., 0.4	2/2.6	35K3187	1.350
● EE-SX1106	2	3	PC Board	10/10	Hor., 0.4	3/3.9	39K9777	1.350
● EE-SX4009-P1*	3	5	Amp [®] Connector	3kHz	Hor., 0.5	5/10.5	36K1924	4.020

▶ CONTINUED ▶

PHOTOMICROSENSORS — NONAMPLIFIED (CONT.)

Mfg. Part No.	Fig.	Sensing Distance (mm)	Terminal Type	On/Off Type	Aperture Orientation, Width (mm)	Slot Width/Depth (mm)	Stock No.	Price Each
● EE-SX4009-P10*	3	5	Molex [®] Connector	3kHz	Hor., 0.5	5/10.5	88K1915	4.960
● EE-SX1042	5	5	PC Board	4/4	Hor., 0.5	5/12	36K3213	1.850
● EE-SX1031	6	3.4	PC Board	4/4	Hor., 0.3	3.4/7.2	35K4493	4.530
● EE-SX1070	7	8	PC Board	3kHz	Hor., 0.5	8/8.2	36K3214	1.850
● EE-SX4070	7	8	PC Board	3kHz	Hor., 0.5	8/7.5	88K1916	2.140
● EE-SX1088-W1***	8	3.4	61cm Wires	4/4	Ver., 0.5	8/8.2	26M8263	7.190
● EE-SX1025	9	2.8	PC Board	4/4	Hor., 0.5	2.8/4.4	35K3186	2.260
● EE-SX1035	9	5.2	PC Board	4/4	Hor., 0.5	5.2/5.4	52F3867	2.350

TRANSMISSIVE SENSING METHOD

Mfg. Part No.	Fig.	Sensing Distance (mm)	Terminal Type	On/Off Type	Aperture Orientation, Width (mm)	Slot Width/Depth (mm)	Stock No.	Price Each
● EE-SX1107	4	1	SMT	10/10	Hor., 0.15	1/2	36K3215	1.350
● EE-SX1108	4	2	SMT	10/10	Hor., 0.3	2/2.8	15C6612	1.350
● EE-SX1109	4	3	SMT	10/10	Hor., 0.5	3/3.5	36K7272	1.350
● EE-SX1131**	4	2	SMT	10/10	Hor., 0.3	2/2.8	20C2151	1.350

REFLECTIVE SENSING METHOD

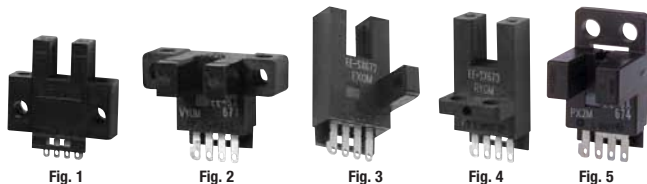
Mfg. Part No.	Fig.	Sensing Distance (mm)	Terminal Type	On/Off Type	Sensing Method	Sensing Object	Stock No.	Price Each
● EE-SY190	...	4.5	PC Board	30/30	Reflective/Vertical	...	16F7489	11.820
● EE-SY169	10	4	PC Board	30/30	Red LED Reflective	White Paper	88K1083	11.670
● EE-SY169A	10	4	PC Board	30/30	IR Reflective	White Paper	43K6809	10.450
● EE-SY124	11	1	PC Board	35/25	Reflective	Al. Surface	36K1925	2.100
● EE-SY125	11	1	SMT	35/25	Reflective	Al. Surface	17M6595	2.100
● EE-SB5	12	5	Solder	30/30	Reflective	White Paper	35K4491	5.300
● EE-SB5-B	12	5	PC Board	30/30	Reflective	White Paper	36K1921	5.300
● EE-SF5	...	5	Solder	30/30	Reflective	White Paper	39C6306	5.210
● EE-SF5-B	...	5	PC Board	30/30	Reflective	White Paper	35K3185	5.210

*Output configuration is Photo IC Light-On, **Dual Slot, ***Vertical Slot

(5264)

PHOTOMICROSENSORS

AMPLIFIED PHOTOMICROSENSORS



- Operating Voltage: 5 - 24VDC
- Response Frequency: 1 kHz Max.
- LED Status Indicator, Off When Object Detected

"A" suffix denotes LED status indicator on when object detected. UL recognized, CE compliant. Use connector and converter options EE-1001, EE-1006, EE-1006A and EE-2002 on page 1390.

Mfg. Part No.	Fig.	Slot Width	Slot Depth	Output Config.	Output Type	Stock No.	Price Each	
							1-14	15-24
EE-SX670	1	5mm	9mm	LO/DO	NPN, 100mA Max.	52F3827	21.080	19.980
EE-SX670A	1	5mm	9mm	LO/DO	NPN, 100mA Max.	18M7274	19.740	18.700
EE-SX471	2	5mm	9mm	LO	NPN, 100mA Max.	90B4371	28.080	26.610
EE-SX671	2	5mm	9mm	LO/DO	NPN, 100mA Max.	52F3828	20.090	19.040
EE-SX671A	2	5mm	9mm	LO/DO	NPN, 100mA Max.	18M7275	20.090	19.040
EE-SX671P	2	5mm	9mm	LO/DO	PNP, 50mA Max.	18M7276	20.090	19.040
EE-SX672	3	5mm	9mm	LO/DO	NPN, 100mA Max.	52F3829	20.350	19.280
EE-SX672A	3	5mm	9mm	LO/DO	NPN, 100mA Max.	52F3833	20.350	19.280
EE-SX673	4	5mm	9mm	LO/DO	NPN, 100mA Max.	52F3830	21.080	19.980
EE-SX673A	4	5mm	9mm	LO/DO	NPN, 100mA Max.	18M7277	21.080	19.980
EE-SX674	5	5mm	9mm	LO/DO	NPN, 100mA Max.	90B3079	21.670	20.540
EE-SX674A	5	5mm	9mm	LO/DO	NPN, 100mA Max.	18M7278	23.240	22.030

(68281)

AMPLIFIED, MODULATED PHOTOMICROSENSORS

- Operating Voltage: 12-24VDC
- Mfg. Part No. EE-SPX301
- Operating Voltage: 5-24VDC
- Output: NPN, 80mA Max.
- Response Frequency: 500Hz
- Optically Modulated to Minimize Interference
- Large Slot Width
- LED Status Indicator, Off When Object Detected

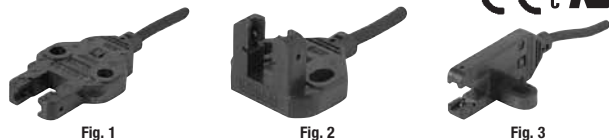


Use Connector and Converter options EE-1001, EE-1006, EE-1006A, and EE-2002 on page 1390.

Mfg. Part No.	Slot Width	Slot Depth	Output	Dimensions			Stock No.	Price Each	
				H	W	D		1-14	15-24
EE-SPX301	3.6mm	9mm	Dark-On	1.24" (31.5mm)	1.02" (26mm)	0.28" (7mm)	16F7249	42.370	40.230
EE-SPX303	13mm	10mm	Dark-On	1.02" (26mm)	1.02" (26mm)	0.29" (7.4mm)	18M7265	43.950	41.730
EE-SPX401	3.6mm	9mm	Light-On	1.24" (31.5mm)	1.02" (26mm)	0.28" (7mm)	08C5273	42.370	40.230
EE-SPX403	13mm	10mm	Light-On	1.02" (26mm)	1.02" (26mm)	0.29" (7.4mm)	18M7266	43.950	41.730

(68283)

AMPLIFIED PHOTOMICROSENSORS, PREWIRED



- Operating Voltage: 5 - 24VDC
- Output: NPN, 100mA Max.
- Response Frequency: 1kHz
- LED Status Indicator, Off When Object Detected
- Standard M3 Screw Mounting

Prewired 2m flexible cable connection. To order units with LED status indicator ON when object detected, add suffix "A" to mfg. part no.; for PNP, add suffix "P". For PNP with LED ON when object detected, add suffix "R". UL Canadian/USA recognized, CE compliant.

▶ CONTINUED ▶

AMPLIFIED PHOTOMICROSENSORS, PREWIRED (CONT.)

Mfg. Part No.	Slot Width / Depth	Output	Dimensions			Fig.	Stock No.	Price Each	
			H	W	D			1-14	15-24
EE-SX770	5mm / 9mm	DO	1.22" (31.1mm)	0.71" (18mm)	0.16" (4mm)	1	41M3166	27.990	26.750
EE-SX771	5mm / 9mm	DO	0.83" (21mm)	0.71" (18mm)	0.51" (13mm)	2	42M1824	31.270	29.880
EE-SX771A	5mm / 9mm	DO	0.83" (21mm)	0.71" (18mm)	0.51" (13mm)	2	31C7142	32.080	30.660
EE-SX772	5mm / 9mm	DO	0.83" (21mm)	0.47" (12mm)	0.48" (12.3mm)	3	93K7544	30.890	29.520
EE-SX870	5mm / 9mm	LO	1.22" (31.1mm)	1.22" (18mm)	0.16" (4mm)	1	48F3662	27.990	26.750
EE-SX871	5mm / 9mm	LO	0.83" (21mm)	0.83" (18mm)	0.51" (13mm)	2	88K1918	29.610	28.300
EE-SX872	5mm / 9mm	LO	0.83" (21mm)	0.47" (12mm)	0.48" (12.3mm)	3	04M4519	30.890	29.520

(68284)

AMPLIFIED PHOTOMICROSENSORS, DIFFUSE REFLECTIVE

- Operating Voltage: 5 - 24VDC
- Output: NPN, 80mA Max.
- Response Frequency: 100Hz
- Optically Modulated To Reduce Interference
- LED Status Indicator, ON When Object Detected
- 5mm Sensing Distance



Use Connector options EE-1001, EE-1003 on page 1390.

Mfg. Part No.	Sensing Direction	Output	Dimensions			Stock No.	Price Each	
			H	W	D		1-14	15-24
EE-SPY301	Horizontal	Dark-On	1.02" (26mm)	0.79" (20mm)	0.28" (7mm)	18M7268	41.120	39.040
EE-SPY302	Vertical	Dark-On	1.02" (26mm)	0.79" (20mm)	0.28" (7mm)	18M7269	41.120	39.040
EE-SPY401	Horizontal	Light-On	1.02" (26mm)	0.79" (20mm)	0.28" (7mm)	52F3839	41.120	39.040
EE-SPY402	Vertical	Light-On	1.02" (26mm)	0.79" (20mm)	0.28" (7mm)	18M7271	41.120	39.040

(68286)

AMPLIFIED PHOTOMICROSENSORS, CONVERGENT REFLECTIVE

- Operating Voltage: 5-24VDC
- Output: NPN, 80mA Max.
- Response Frequency: 100Hz
- Optically Modulated to Minimize Interference
- LED Status Indicator, On When Object Detected
- Sensing Distance: 2-6mm



Use Connector Options EE-1001 and 1006 on page 1390.

Mfg. Part No.	Maximum Range (mm)	Sensing Direction	Output	Stock No.	Price Each	
					1-14	15-24
EE-SPY311	6	Horizontal	Dark-On	26M8262	40.710	38.630
EE-SPY411	6	Horizontal	Light-On	18M7272	40.710	38.630
EE-SPY312	5	Vertical	Dark-On	18M7270	40.710	38.630
EE-SPY412	5	Vertical	Light-On	18M7273	40.710	38.630
EE-SPY415	11	Horizontal	Dark-On	17M6594	16.800	15.750

(68287)

AMPLIFIED PHOTOMICROSENSORS, DIFFUSE REFLECTIVE WITH ADJUSTABLE SENSITIVITY

- Operating Voltage: 5 - 24VDC
- Output: NPN, 100mA Max.
- Response Frequency: 50Hz
- LED Status Indicator, ON When Object Detected
- Sensing Distance: 1 - 5mm Adjustable



Use Connector options EE-1001 and EE-1006 on page 1390.

Mfg. Part No.	Sensing Direction	Output	Dimensions			Stock No.	Price Each	
			H	W	D		1-14	15-24
EE-SY671	Horizontal	Light-On / Dark-On	0.98" (25mm)	1.00" (25.4mm)	0.27" (6.95mm)	18M7279	24.970	23.730
EE-SY672	Vertical	Light-On / Dark-On	0.98" (25mm)	1.00" (25.4mm)	0.27" (6.95mm)	52F3844	24.970	23.730

(68288)

PHOTOMICROSENSORS • PHOTOTRANSISTORS

PHOTOMICROSENSOR ACCESSORIES



For use with Omron photomicrosensors, *Go online or call.*

Mfg. Part No.	Description	Stock No.	Price Each	
			1-24	25-49
● E39-R1	Reflector	27M2403	15.370	14.620
● E39-R2	Reflector	38B246	20.450	19.460
● EE-1001	Connector With Quick Connect Terminals	93K7545	2.870	2.730
● EE-1006	Connector With 2m Wire Harness	18M7281	13.450	12.800
● EE-1006A	Connector Holder for Mfg. Part No. EE-1006	91B9905	4.050	3.850
● EE-1002	Connector With Quick Connect Terminals	88K1919	2.870	2.730
● EE-1003	Connector With 2m Wire Harness	27M2346	5.080	4.840
● EE-1003A	Connector Holder for Mfg. Part No. EE-1003	18M7280	1.560	1.490
● EE-2002	NPN to PNP Output Converter	27M2347	28.090	26.720

(68289)

AMPLIFIED, MODULATED PHOTOMICROSENSOR WITH LONG SENSING DISTANCE



- Long Sensing Distance With Built-in Amplifier and Light Modulation
- Light Modulation Effectively Reduces External Light Interference
- Easy Adjustment and Optical Axis Monitoring With a Light-ON Operation Indicator
- Wide Operating Voltage Range (5 to 24VDC) Makes a Smooth Connection Possible With TTLs, Relays and Programmable Controllers (PLCs)
- Easy-to-Wire Connector Assures Ease of Maintenance
- 100Hz Response Frequency
- Light Source: GaAs Infrared LED (Pulse-Modulated) With a Wavelength of 940nm
- Dark-ON Output Configuration Also Available; *Go online or call*
- Use Connectors [EE-1002](#), [EE-1003](#) and [EE-1003A](#) and Reflector [E39-R1](#) on this page



Mfg. Part No.	Sensing Method	Sensing Distance	Output	Stock No.	Price Each	
					1-24	25-49
● EE-SPZ401-A	Diffuse (Retroreflective)	200mm	Light-On	27M2345	53.570	

(73108)

AMPLIFIED COMPACT PHOTOMICROSENSORS, PREWIRED



- Prewired Compact Sensing Head for Easy Mounting in Space-Constrained Areas
- Light Modulation Effectively Reduces External Light Interference
- Easy-to-Use Photomicrosensor with Cable Attached
- Wide Operating Voltage Range: 5 to 24VDC
- Optical Axis Monitoring with a Light-ON Indicator
- Amplifier's NPN Output Can Be Directly Connected to a TTL and Programmable Controller
- Incorporates Dust-Proof Slit
- Detects an Object with 0.5mm Diameter
- Dimensions in inches (mm): 0.61H x 1.07L x 0.27 (15.5 x 27.2 x 6.95)



Mfg. Part No.	Slot Width (mm)	Slot Depth (mm)	Output	Stock No.	Price Each	
					1-14	15-24
● EE-SPX405-W2A	5	9	Light-ON	18M7267	67.470	63.920
● EE-SPX305-W2A	5	9	Dark-ON	52F3836	73.090	69.240

(73109)

AMPLIFIED TRANSMISSIVE PHOTOMICROSENSOR WITH LIGHT MODULATION



- Light Modulation Effectively Reduces External Light Interference
- Easy Adjustment and Optical Axis Monitoring With a Light-ON Indicator
- Operating Voltage: 5 to 24VDC
- Amplifier Output Can Be Directly Connected to a Programmable Controller (PLC)
- Easy-to-Wire Connector Type
- Dimensions: 2.4H x 2.6L x 6W (mm)



Mfg. Part No.	Slot Width	Slot Depth	Output	Stock No.	Price Each	
					1-14	15-24
● EE-SPX301	3.6mm	9mm	Dark-ON	16F7249	42.370	40.230

(73257)

AMPLIFIED PHOTOMICROSENSORS WITH 80A BUILT-IN SWITCHING



- Sensing Method: Diffuse
- Built-in Amplifier with NPN Output
- Available with 5-12VDC and 5-15VDC Input
- CMOS- and TTL-Compatible
- White Paper with Reflection Factor of 90%
- Standard Sensing Object: 15mm x 15mm
- Differential Distance: 0.1mm
- Light Source: GaAs Infrared LED with Peak Wavelength of 940nm
- Response Frequency: 50Hz

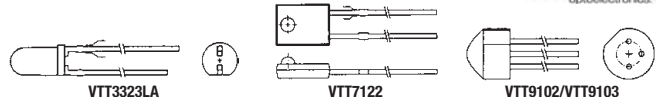


DO = Dark-On; LO = Light-On. Dimensions in inches (mm): 1.11 (28.4)H x 1.00 (25.4)W x 0.27 (6.95)L. Use connector option [mfg. part nos. EE-1001](#) and [EE-1006](#) and PNP converter option [mfg. part no. EE-2002](#), ordered separately on this page.

Mfg. Part No.	Sensing Distance	Output	Supply Voltage (VDC)	Current Composition (mA max.)	Forward/Reverse Voltage	Stock No.	Price Each
							1-24
● EE-SB5V	.197" (5mm)	LO	5 to 15	48	1.5V max. /4V max.	34M5920	23.390
● EE-SB5V-E	.748" (19mm)	LO	5 to 15	48	1.5V max. /4V max.	27M2344	32.670

(73295)

PHOTOTRANSISTORS



Mfg. Part No.	Light Current I _L		Dark Current I _{CEO} *		Emitter Breakdown V _{BR(EO)}	Stock No.	Price Each	
	Min. (mA)	H (fc)	Max. (nA)	V _{CE}			1-49	50-99
● VTT3323LAH	2.0	20	100	10	5.0	79K2590	0.614	0.589
● VTT7122H	1.0	100	100	10	5.0	79K2597	0.614	0.589
● VTT9102H	6.0	20	100	5	4.0	79K2605	2.280	2.190
● VTT9103H	13.0	20	100	5	4.0	79K2606	2.140	2.060

* @ H = 0 (3773)

PHOTOTRANSISTORS



Hermetically-sealed packages.

Mfg. Part No.	Peak Wavelength (nm)	Bandwidth (nm)	Collector Light Current, Typical (mA)	Angle of Half Sensitivity (°)	Rise and Fall Time (µs)	Pkg.	Stock No.	Price Each
								1-99
● BPV11F	930	900 to 980	9	15	6		32C9138	0.574
● BPV11	850	620 to 980	10	15	6	5 mm, T-1 3/4	32C9137	0.574
● BPW96B	850	620 to 980	1.5	20	2		32C9166	0.522
● BPW96C	850	620 to 980	1.5	20	2		32C9167	0.522
● BPW16N	825	620 to 960	0.14	40	5	1.8 mm	32C9145	0.441
● BPW17N	825	620 to 960	1	12	5	1.8 mm	32C9146	0.441
● BPW76A	850	620 to 980	0.4	40	6	TO-18	32C9154	1.630
● BPW76B	850	620 to 980	0.4	40	6	TO-18	95B4217	1.630
● BPW77NA	850	620 to 980	7.5	10	6	TO-18	95B4218	1.630
● BPW77NB	850	620 to 980	7.5	10	6	TO-18	95B4219	1.630
● TEST2600	920	850 to 980	2.5	30	6	Side View	33C1238	0.629
● TEKT5400S	920	850 to 980	4	37	6	Side View	22H1091	0.555

SURFACE MOUNT

● TEMT1000	950	750 to 980	7	15	2	1.9 mm	33C1233	0.460
● TEMT3700-GS08	830	620 to 980	0.5	60	6	PLCC-2	58K2404	0.514

(52594)

COLOR SENSOR AND EVALUATION KIT



- Applications:**
- Pharmaceutical
 - Ink and/or Paper
 - Color Detection
 - Color Printer
 - Calibration Sensors
 - Colormatch Sensing



EVALUATION KIT

The kit includes the **OPB780** Series sensor, a full color sensor with four different frequencies relating directly to a specific color seen by the sensor. Housed in a small, lightweight package, the color sensor uses a programmable light-to-frequency converter that combines 64 configurable silicon photodiodes and a current-to-frequency converter on a single monolithic CMOS integrated circuit. The color sensor consists of a white LED for illumination of the target; photodiode array consisting of 16 green, clear, red and blue filter diodes; a current to frequency converter; TTL and CMOS drive circuitry; and plastic packaging with 10 pin (25.4 cm) FFC. All 16 photodiodes that have the same color filter are connected in parallel, while all 64 photodiodes are 120µm x 120µm in size and are on 144µm centers. The **OPB780 Kit's** photodiode is designed to recognize ultraviolet, visible, and infrared wavelengths.

Mfg. Part No.	Contents of Kit	Stock No.	Price Each
OPB780KIT	OPB780 sensor, PC board, USB A/B interface cable and USB flash drive w/software, data sheet and instructions.	45P7985	96.000

COLOR SENSOR

Mfg. Part No.	Description	Stock No.	Price Each
OPB780Z	Reflective Color Sensor Assembly	38M9842	19.480

(146396)

HOA6480 SERIES BARCODE SENSOR



Honeywell

Sensing and Control



- Class IIIB VCSEL
- Digital output
- Depth of field: 4.5mm ±0.5mm (0.180" ±0.20")
- Focal length: 4.5mm (0.180")
- Allows measurement with no contact
- Resolution: 0.254mm (0.010")
- Pin termination

The **HOA6480 series** is a reflective barcode sensor that incorporates a VCSEL (Vertical Cavity Surface-emitting Laser) emitter and phototransistor detector in a custom-molded plastic package. The VCSEL technology allows the sensor to operate with a very low drive current. The phototransistor drives an operational amplifier with an open-collector output, providing users with flexibility in their interface designs.

Mfg. Part No.	Supply Current (mA)	Scan Speed	Stock No.	Price Each		
				1-14	15-24	25-49
HOA6480-001	15	254mm(10.0") per second	71J4541	22.910	22.410	21.320

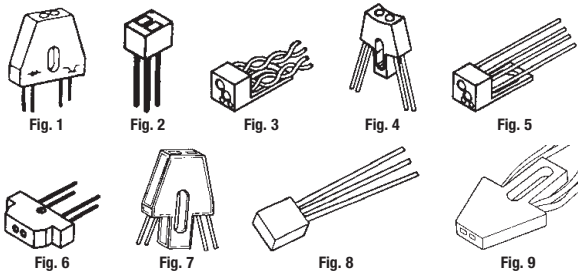
(85532)

REFLECTIVE SENSORS



Honeywell

Sensing and Control



PLASTIC TRANSISTOR OUTPUT

Mfg. Part No.	Fig.	Light Current I _L @ I _F		Target Distance	Stock No.	Price Each		
		(mA)	(mA)			1-24	25-49	50-99
HOA0708-001	1	0.2	40	0.150"	87F6452	5.580	5.090	4.590
HOA1397-002	2	0.7	20	0.050"	87F6508	4.300	3.920	3.530
HOA0149-001	6	1.0	40	0.150"	89F5784	4.090	3.720	3.360
HOA1405-002	7	0.8	30	0.200"	90F8550	4.840	4.410	3.980
HLC1395-002	8	0.6	10	0.040"	96F6323	2.080	1.890	1.710

PLASTIC DARLINGTON OUTPUT

HOA0709-001	1	1.0	40	0.150"	87F6454	4.520	4.120	3.720
HOA0709-011	1	1.0	40	0.150"	87F6487	5.570	5.070	4.570
HOA1397-032	2	7.0	20	0.050"	87F6707	4.370	3.980	3.590

HERMETIC TRANSISTOR OUTPUT

HOA1180-002	3	0.16	30	0.500"	10M5200	14.980	13.640	12.310
HOA1404-002	4	0.8	30	0.200"	87F6510	13.170	12.000	10.820
HOA2498-002	5	0.16	30	0.500"	90F8552	10.240	9.330	8.410

➔ CONTINUED ➔

REFLECTIVE SENSORS (CONT.)

HERMETIC DARLINGTON OUTPUT

Mfg. Part No.	Fig.	Light Current I _L @ I _F		Target Distance	Stock No.	Price Each		
		(mA)	(mA)			1-24	25-49	50-99
HOA1180-003	3	2.0	30	0.500"	10M5201	17.470	15.920	14.360
HOA1404-003	4	2.0	30	0.200"	90F8555	13.090	11.930	10.760
HOA1406-003	7	2.0	40	0.200"	96F9194	56.910	51.830	46.760
HOA1406-001	9	2.5	40	0.200"	10M5202	30.620	27.890	25.160

HERMETIC DARLINGTON OUTPUT

Mfg. Part No.	Fig.	Light Current I _L @ I _F		Target Distance	Stock No.	Price Each		
		(mA)	(mA)			1-24	25-49	50-99
HOA0891-T55	3	2.0	30	0.500"	05M0337	10.950	9.980	9.000

(3813)

HALLOGIC® HALL EFFECT SENSORS

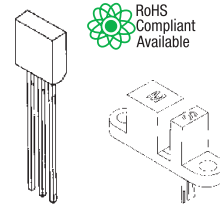


Fig. 1

Fig. 2

Sensors meet the demands of motion sensing in harsh environments. All case styles are plastic lateral. Operate point @ T_A = 25°C, unless otherwise indicated.

Mfg. Part No.	Fig.	Gauss								Stock No.	Price Each
		Operate Point		Release Point		Hysteresis					
		Min	Max	Min	Typ	Max	Min	Typ	Max		
OHN3020U	1	70	230	350	50	180	20	50	...	08F2591	2.960
OHN3140U	1	45°	260	25	...	240	20	35	...	08F2600	3.450
OHS3140U	1	45°	270	25	...	250	20	35	...	08F2609	3.450
OH090U	1	0	180	-100	65	100	10	25	100	08F2612	2.960
OH180U	1	70	290	0	140	230	20	40	120	08F2613	2.960
OH360U	1	235	465	120	235	325	30	65	200	08F2614	2.960
OHN3120U	...	70	425	50	...	405	20	...	...	08F2597	2.700
OHS3175U	...	10	260	-10	...	-260	60	...	...	08F2610	2.040

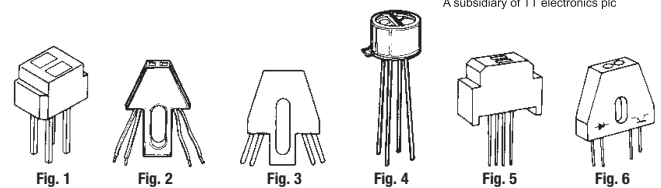
SENSOR ASSEMBLY

Mfg. Part No.	Fig.	Supply Current I _{cc}	Supply Voltage V _{cc}	Stock No.	Price Each	
					1-99	100-249
OHB900	2	7mA Max.	4.5 to 24V	08F2589	7.480	4.370

(1) T_A = -40°C to 125°C (2) T_A = -20°C to 125°C

REFLECTIVE OBJECT SENSORS

Just Added



PHOTOTRANSISTOR REFLECTIVE OBJECT SENSORS

Mfg. Part No.	Fig.	Wave-length (nm)	I _{CO(ON)} Min. (mA)	Test Conditions			Stock No.	Price Each		
				I _F (mA)	V _{CE} (V)	Distance (Inches)		1-99	100-249	250-499
OPB607A	1	935	25	20	5	0.11	08F2620	1.960	1.420	1.340
OPB608A	1	890	2	20	5	0.11	52F6179	2.280	1.650	1.550
OPB608R	1	660	1	20	5	0.11	57J6453	2.600	1.880	1.770
OPB608V	1	850	5	12	5	0.11	11J5266	14.690	10.610	10.000
OPB609AX	...	940	0.1	50	10	0.5	55M8216	0.519	0.375	0.353
OPB609GU	...	940	0.1	50	10	0.5	55M8217	0.749	0.541	0.510
OPB609RA	...	940	0.1	50	10	0.5	55M8218	0.519	0.375	0.353
OPB700Z	2	890	0.025	40	5	0.2	69K8446	11.440	8.260	7.790
OPB700ALZ	2	890	0.025	40	5	0.2	69K8445	12.940	9.340	8.800
OPB701Z	2	890	2	40	5	0.2	69K8448	13.940	10.070	9.490
OPB701ALZ	2	890	2	40	5	0.2	69K8447	14.950	10.800	10.180
OPB702	5	890	0.5	20	5	0.15	89C2268	3.000	2.170	2.040
OPB703	3	890	0.2	40	5	0.15	08F2639	3.340	2.420	2.280
OPB704	2	890	0.2	40	30	0.15	08F2641	3.750	2.740	2.510
OPB704WZ	2	890	0.2	40	5	0.15	69K8449	5.250	3.790	3.570

➔ CONTINUED ➔

SENSORS

REFLECTIVE OBJECT SENSORS (CONT.)

Mfg. Part No.	Fig.	Wave-length (nm)	I _{C(ON)} Min. (mA)	Test Conditions			Stock No.	Price Each		
				I _F (mA)	V _{CE} (V)	Distance (Inches)		1-99	100-249	250-499
● OPB706A	...	935	0.5	50	24	0.05	08F2643	2.490	2.040	1.880
● OPB707A	...	935	25	50	15	0.05	08F2644	3.810	2.780	2.550
● OPB710	4	935	0.15	20	5	0.25	08F2647	8.760	6.330	5.960
● OPB710F	4	935	0.15	20	5	0.25	52F6182	9.130	6.600	6.220
● OPB711	5	890	0.35	20	5	0.08	08F2648	3.860	2.790	2.630
● OPB712	5	890	20	20	5	0.08	08F2649	4.320	3.120	2.940
● OPB716Z	...	890	...	...	5.25	0.5	73K1076	8.100	7.210	6.500
● OPB730	4	935	1	20	5	0.25	08F2650	9.130	6.600	6.220
● OPB730F	4	935	1	20	5	0.25	52F6183	9.770	7.060	6.650
● OPB732WZ	...	850	50	50	30	1	73K1080	6.150	5.040	4.630
● OPB733TR	...	890	0.1	50	10	1	58P0542	2.650	1.920	1.810
● OPB740WZ	3	890	0.05	20	5	0.15	69K8450	5.450	3.940	3.710
● OPB742	6	890	0.01	20	5	0.15	08F2652	3.320	2.400	2.260
● OPB744WZ	3	890	0.2	20	5	0.15	69K8451	6.280	4.540	4.280
● OPB745	6	890	1	20	5	0.15	08F2653	4.120	2.980	2.810
● OPB750N	...	890	0.5	30	5	0.08	01C3068	5.790	4.180	3.940
● OPB755TZ	...	890	0.5	30	5	0.08	69K8452	8.620	6.220	5.860
● OPB770TZ	...	890	...	40	5.25	0.22	73K1087	8.430	7.510	6.770
● OPB880P51Z	...	890	0.5	20	30	0.01	73K1122	5.590	4.040	3.810

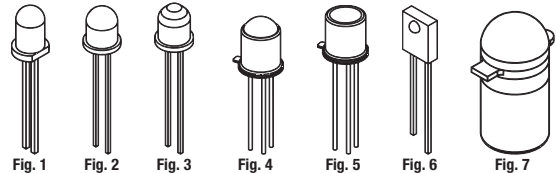
TUBE FLUID SENSORS (CONT.)

Mfg. Part No.	I _F (mA)	V _{BRCEO} (V)	I _{C(ON)} Min. (mA)	Tube Size O.D. (in.)	On/Off Ratio	Mount Type	Pkg.	Stock No.	Price Each
									1-99
● OPB350L250	20	24	0.75	¼	2.3	PCB	N	27K2373	6.980
● OPB350W250Z	20	24	0.75	¼	2.3	24" 26 AWG Wires	T	69K8440	9.450

PHOTOSENSORS



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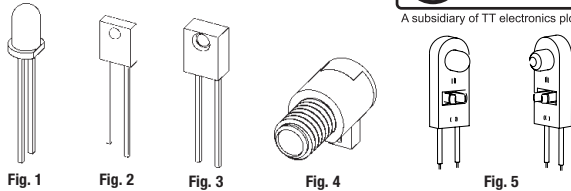
All are phototransistors. All mfg. part nos. OP505 are narrow reception.

Mfg. Part No.	Fig.	Beam Angle	I _{C(ON)} Min. (mA)	V _{CE} (V)	E _s (mW/cm ²)	Stock No.	Price Each		
							1-99	100-249	250-499
● OP505D	1	18	0.55	5.0	0.5	08F3009	0.662	0.543	0.499
● OP505C	1	18	1.1	5.0	0.5	08F3008	0.684	0.561	0.516
● OP505A	1	18	4.3	5.0	0.5	08F3006	0.684	0.561	0.516
● OP506A	1	18	4.3	5.0	0.5	08F3011	0.867	0.711	0.654
● OP535A	1	60	10.5	15.0	0.13	94B4223	1.030	0.832	0.769
● OP593A	2	130	3.0	5.0	1.7	08F3024	0.776	0.636	0.585
● OP598A	3	25	7.5	5.0	1.7	08F3026	0.776	0.636	0.585
● OP598C	3	25	2.5	5.0	1.7	08F3027	0.776	0.636	0.585
● OP802SL	4	25	2.0	5.0	5.0	08F3033	2.440	2.000	1.840
● OP803SL	4	25	4.0	5.0	5.0	08F3037	2.440	2.000	1.840
● OP804SL	4	25	7.0	5.0	5.0	08F3040	2.440	2.000	1.840
● OP805SL	4	25	15.0	5.0	5.0	08F3042	2.440	2.000	1.840
● OP830SL	4	25	15.0	5.0	0.5	08F3043	2.440	2.000	1.840
● OP802WSL	5	75	2.5	5.0	5.0	08F3035	3.170	2.600	2.390
● OP830WSL	5	75	4.0	5.0	0.5	08F3045	3.170	2.600	2.390
● OP550A	6	60	2.55	5.0	1.0	08F3016	0.776	0.636	0.585
● OP644SL	7	35	7.0	5.0	20	25H7639	2.650	2.170	2.000

DEVICE PAIRS

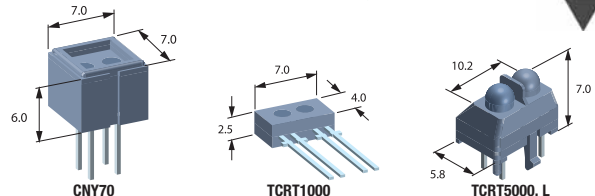


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Mfg. Part No.	Fig.	Description	I _F (mA)	V _{BRCEO} (V)	I _{C(ON)} Min. (mA)	Dist. (in.)	Stock No.	Price Each
								1-99
● OPS666	1	LED/Sensor Matched Pair/T-1	20	5.0	5.0	0.25	08F2907	2.440
● OPS692	2	LED/Sensor Matched Pair Lateral	20	5.0	1.0	0.125	01C3528	1.800
● OPS697	3	LED/Sensor Matched Pair Lateral	20	5.0	1.0	0.125	01C3531	2.120
● OPB856Z	4	890nm Slotted Switch Phototransistor-Transistor and LED	20	30.0	1.8	2.0	73K2088	35.110
● OPB100EZ	5	890nm Infrared LED Emitter	20	30.0	...	36.0	69K8437	5.320
● OPB100SZ	5	Silicon Phototransistor Sensor	20	30.0	...	36.0	69K8438	5.120

REFLECTIVE OPTICAL SENSORS WITH TRANSISTOR OUTPUT



Sensors have polycarbonate housing. V_{CE} 1mA: < 32V. Output Configuration: Transistor. Dimensions are shown in (mm).

Mfg. Part No.	Operating Range * (mm)	Peak Operating Distance (mm)	Output	Stock No.	Price Each
					1-99
● CNY70	0 to 3	1	Transistor	95B4223	1.230
● TCRT1000	1 to 2	1	Transistor	95B4819	1.110
● TCRT1010	1 to 2	1	Transistor	95B4820	1.150
● TCRT5000	1 to 14	2.5	Transistor	95B4821	1.110
● TCRT5000L	1 to 14	2.5	Transistor	33C1109	1.110
● TCND5000	2 to 25	8	Photodiode	23K1221	2.480

* Relative collector current greater than 20% (52576)

TUBE FLUID SENSORS

Just Added



A subsidiary of TT electronics plc

Features

- Can identify if liquid is present in clear tubes that have a 1/8" (3.175mm), 3/16" (4.763mm) or 1/4" (6.350mm) outside diameter
- Opaque plastic housing enhances ambient light rejection
- Printed circuit board mounting or 24" (609.600mm) wires

Applications

- Non-contact fluid sensing
- IV fluid
- Oils and other petroleum products
- Colored fluids
- Toner fluids
- Water

OPB350 series liquid sensor is designed to work with 1/16", 1/8", 3/16" and 1/4" outside diameter clear tubes. When output reference circuitry is added, multiple output states such as "fluid present," "no fluid present" and "no tube present" can be recognized.

Mfg. Part No.	I _F (mA)	V _{BRCEO} (V)	I _{C(ON)} Min. (mA)	Tube Size O.D. (in.)	On/Off Ratio	Mount Type	Pkg.	Stock No.	Price Each
									1-99
● OPB350	20	30	1.00	1/8	3	PCB	N	73H3201	6.780
● OPB350W062Z	20	24	0.3	1/16	3	24" 26 AWG Wires	T	30M5162	9.450
● OPB350W187Z	20	24	1.00	3/16	2.3	24" 26 AWG Wires	T	69K8439	9.450

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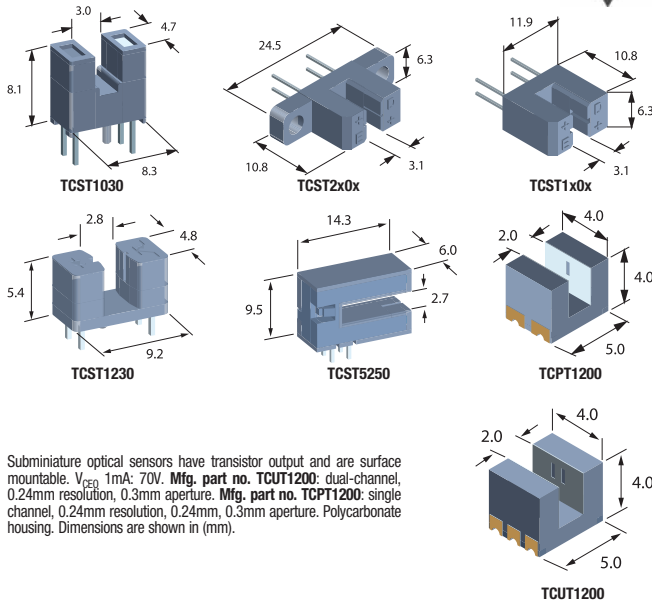


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(148881)

TRANSMISSIVE OPTICAL SENSORS WITH TRANSISTOR OUTPUT



Subminiature optical sensors have transistor output and are surface mountable. V_{CE0} 1mA, 70V. **Mfg. part no. TCUT1200:** dual-channel, 0.24mm resolution, 0.3mm aperture. **Mfg. part no. TCPT1200:** single channel, 0.24mm resolution, 0.24mm aperture. Polycarbonate housing. Dimensions are shown in (mm).

SCHMITT TRIGGER OUTPUT

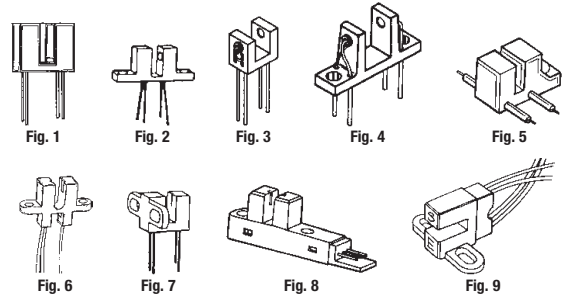
Mfg. Part No.	I_C/I_{FT} (mA)	CTR/V_{CE0} @ I_{FT} low %/V (mA)	V_{CE0}/V_{FC} (V)	Dist/Gap (mm)	Resol. (mm)	Apert. (mm)	On/Off Time (us)	Stock No.	Price Each
TRANSISTOR OUTPUT									
● TCPT1200	>100 (250)	>2 (5) @ 15	70	2	0.24	0.3	20/30	95B4818	1.250
● TCST1030	2.5 (>1.2)	25 (>12) @ 10	70	3.1	0.8	...	15/10	95B4823	0.674
● TCST1103	4 (>2)	20 (>10) @ 20	70	3.1	0.6	1	10/8	33C1113	0.881
● TCST2103	4 (>2)	20 (>10) @ 20	70	3.1	0.6	1	10/8	33C1118	1.200
● TCST1202	2 (>1)	10 (>5) @ 20	70	3.1	0.4	0.5	10/8	33C1114	0.919
● TCST2202	2 (>1)	10 (>5) @ 20	70	3.1	0.4	0.5	10/8	33C1119	1.200
● TCST1300	0.5 (>0.25)	2.5 (>1.25) @ 20	70	3.1	0.2	0.25	10/8	33C1117	1.180
● TCST2300	0.5 (>0.25)	2.5 (>1.25) @ 20	70	3.1	0.2	0.25	10/8	33C1120	1.350
● TCST1230	1 (>0.5)	5 (>2.5) @ 20	70	2.8	0.4	0.5	15/10	33C1116	0.703
● TCST5250	1.5 (>0.5)	7.5 (>2.5) @ 20	70	2.7	0.4	0.5	15/10	33C1123	1.040
● TCUT1200	>100 (250)	>2 (5) @ 15	70	2	0.24	0.3	20/30	95B4825	1.430

(52677)

SLOTTED OPTICAL SWITCHES



Honeywell
Sensing and Control



HERMETIC TRANSISTOR OUTPUT

Mfg. Part No.	Fig.	Collector Current $I_{C(ON)}$ @ I_F (mA)	Sensor Aperture L x W	Aperture Gap Depth	Aperture Gap Width	Stock No.	Price Each
● HOA1873-011	2	0.3	30	0.060" Diameter	0.100"	91B4804	4.240 3.860
● HOA1875-002	3	0.6	30	0.050" Diameter	0.250"	87F6515	9.950 9.060
● HOA1877-002	4	0.5	30	0.050" Diameter	0.500"	87F6448	9.950 9.060

HERMETIC DARLINGTON OUTPUT

● HOA1875-003	3	1.8	30	0.050" Diameter	0.250"	90F8598	10.820 9.860
● HOA1874-012	2	1.8	30	0.060" Diameter	0.120"	05M0338	6.000 5.460

PLASTIC TRANSISTOR OUTPUT

● HOA0875-T51	2	0.5	20	0.060 x 0.010"	0.345"	0.125"	10M5197	4.240 3.860
● HOA1873-012	2	1.8	20	0.060" Diameter	0.250"	0.100"	87F6514	4.300 3.920
● HOA1882-012	3	1.8	20	0.060" Diameter	0.220"	0.200"	10M5204	3.210 2.930
● HOA1879-015	2	1.8	20	0.040 x 0.010"	0.325"	0.125"	96F6342	5.390 4.910
● HOA1870-031	5	0.3	20	0.040 x 0.006"	0.250"	0.070"	10M5203	8.330 7.590
● HOA1881-012	6	1.8	20	0.060" Diameter	0.295"	0.125"	87F6450	6.760 6.150
● HOA1884-012	7	1.8	20	0.060 x 0.020"	0.315"	0.125"	10M5205	5.670 5.160
● HOA1887-012	9	1.8	20	0.060 x 0.010"	0.125"	0.250"	01F758	8.540 7.780

PLASTIC DARLINGTON OUTPUT

● HOA1872-013	1	4.0	20	0.060" Diameter	0.250"	0.100"	90F8558	5.450 4.960
● HOA1873-013	2	4.0	20	0.060" Diameter	0.250"	0.100"	98F057	4.430 4.040
● HOA1870-033	5	2.0	20	0.040 x 0.006"	0.250"	0.070"	90F8527	8.200 7.470
● HOA1887-013	9	4.0	20	0.060 x 0.010"	0.125"	0.250"	10M5206	9.930 9.050

PLASTIC OPTOSCHMITT OUTPUT

Mfg. Part No.	Fig.	Operating Voltage (V)	Sensor Aperture L x W	Gap Depth	Gap Width	Stock No.	Price Each
● HOA7720-M22	8	4.5-5.5	0.070 x 0.020"	0.295"	0.118"	95F9370	10.300 9.390
● HOA7730-M22	8	4.5-5.5	0.070 x 0.020"	0.295"	0.118"	10M8425	11.190 10.190

PLASTIC DARLINGTON OUTPUT

Mfg. Part No.	Fig.	$I_{FT(ON)}$ Max (mA)	Sensor Aperture L x W	Gap Depth	Gap Width	Stock No.	Price Each
● HOA2001-001	2	10	0.060" Diameter	0.305"	0.120"	10M5207	4.850 4.410
● HOA2003-001	2	20	0.040 x 0.010"	0.325"	0.125"	90F8559	6.800 6.190
● HOA6990-T51	6	15	0.060 x 0.010"	0.345"	0.125"	10M5208	7.990 7.280
● HOA6991-T51	6	15	0.060 x 0.010"	0.345"	0.125"	10M8424	9.490 8.640
● HOA6993-T51	6	15	0.060 x 0.010"	0.345"	0.125"	90F8588	7.880 7.170
● HOA6992-T51	6	15	0.060 x 0.010"	0.345"	0.125"	15M0933	14.020 12.770
● HOA2004-001	7	20	0.040 x 0.020"	0.315"	0.125"	90F8560	5.810 5.290
● HOA2005-001	9	20	0.060 x 0.010"	0.250"	0.125"	01F760	9.970 9.080

(3812)



TechCast® Product Training

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(148854)

SLOTTED OPTICAL SWITCHES



A subsidiary of TT electronics plc

Features:

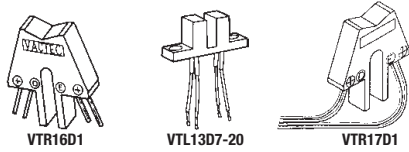
- Non-contact switching
- Right Angle Sensor: LED in tower, photosensor in base
- Choice of output configuration
- Optical line can be broken in three axis
- 24" minimum, 26 AWG UL approved wire leads

Mfg. Part No.	PhotoSensor Type	VF Max. (V)	V(BR) CEO Min. (V)	$I_{C(ON)}$ MIN (mA)	Stock No.	Price Each
● OPB420AZ	Phototransistor	1.7	30	1	01P0044	5.710
● OPB420BZ	R(BE) Phototransistor	1.7	24	1	01P0045	5.640

(147094)

SWITCHES

OPTICAL SWITCHES

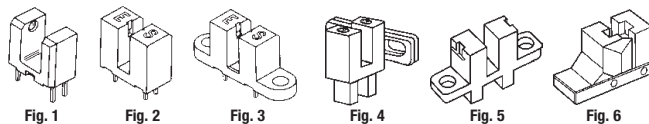


Optical switches for sensing in such applications as printers and typewriters, floppy drives, copiers, etc. Sealed case.

Mfg. Part No.	Light Current		Dark Current		Sat. Max. (V)	Price Each		
	Min. (mA)	@ V _{CE} (V)*	Max. (nA)	@ V _{CE} (V)†		Stock No.	1-24	25-49
● VTR16D1H	0.3**	5.0	100	5	...	79K2545	5.330	5.040
● VTR17D1H	0.3**	5.0	100	5	...	79K2546	5.780	5.460
● VTL13D7-20H	0.225	5.0	100	10	0.4	79K2517	4.860	4.590

* @ I_F = 20mA; † @ I_F = 0mA; ** 2.5mm(0.100") from a 90% reflective surface. (3775)

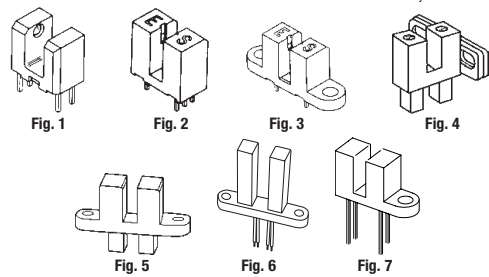
PHOTOTRANSISTOR SLOTTED OPTICAL SWITCHES



Mfg. Part No.	Fig.	I _{CE} MIN (mA)	Test Conditions		Slot		Sensor Aperture	Stock No.	Price Each	
			I _F (mA)	V _{CE} (V)	Gap	Depth			1-99	9-99
● OPB620	1	1.0	5.0	5.0	.190	.285	.060	08F2623	2.060	
● OPB804	2	0.5	20.0	10.0	.150	.330	.060	08F2655	2.080	
● OPB848	2	1.0	20.0	10.0	.100	.250	.060	08F2682	2.660	
● OPB818	2	0.1	20.0	10.0	.200	.250	.060	08F2662	2.870	
● OPB815L	3	3.5	20.0	10.0	.375	.430	.060	66F3367	3.370	
● OPB830W55Z	4	0.5	20.0	10.0	.125	.315	.050	66K6946	5.500	
● OPB829AZ	5	1.8	20.0	0.6	.125	.315	.060	73K1103	5.000	
● OPB821Z	6	0.5	20.0	5.0	.080	.255	.040	69K8458	4.970	
● OPB360T55	5	0.3	20.0	0.4	.125	.345	.050	01C2931	2.920	
● OPB370N55	2	3.5	20.0	0.4	.125	.345	.050	83F1149	3.000	
● OPB370T55	5	3.5	20.0	0.4	.125	.345	.050	01C2951	2.790	
● OPB380T11Z	5	1.0	20.0	0.4	.125	.345	.010	69K8441	6.260	
● OPB390L55Z	5	3.5	20.0	0.4	.125	.345	.050	69K8442	4.660	
● OPB390T51Z	5	2.5	20.0	0.4	.125	.345	.010	69K8443	4.840	
● OPB390T55Z	5	3.5	20.0	0.4	.125	.345	.050	69K8444	4.660	
● OPB800W55Z	5	.625	20.0	10.0	.375	.350	.050	69K8453	5.160	
● OPB801W55Z	5	1.25	10.0	5.0	.375	.350	.050	69K8454	5.260	
● OPB802W55Z	5	2.25	20.0	0.6	.375	.350	.050	69K8455	5.370	
● OPB806	3	0.4	20.0	0.5	.125	.375	.060	08F2656	4.420	
● OPB810W51Z	5	.625	20.0	10.0	.375	.345	.010	66K0452	5.400	
● OPB815WZ	5	1.0	20.0	10.0	.375	.430	.060	69K8456	5.530	
● OPB820S5	8	0.3	20.0	5.0	.080	.255	.005	08F2664	4.370	
● OPB821S5Z	...	0.3	20.0	5.0	.080	.255	.005	69K8457	5.500	
● OPB822SD	...	0.1	20.0	10.0	.090	.300	.010	08F2668	6.080	
● OPB825	2	0.5	20.0	10.0	.160	.285	.060	08F2671	2.210	
● OPB826SD	2	1.1	20.0	10.0	.100	0.42	.040	08F2674	12.130	
● OPB828C	3	1.8	20.0	0.6	.120	.315	.060	08F2675	2.870	
● OPB829AZ*	5	1.8	20.0	0.6	.125	.315	...	73K1103	5.000	
● OPB829CZ*	5	1.8	20.0	0.6	.125	.315	.060	67K9175	4.950	
● OPB829DZ*	5	1.8	20.0	0.6	.125	.315	.010	73K1105	4.820	
● OPB830W11Z*	4	0.5	20.0	10.0	.125	.315	.010	69K8459	6.890	
● OPB830W51Z*	4	0.5	20.0	10.0	.125	.315	.010	69K8460	5.790	
● OPB840L51*	4	0.5	20.0	10.0	.125	.315	.010	08F2681	3.240	
● OPB840W11Z*	4	0.5	20.0	10.0	.125	.315	.010	69K8461	7.030	
● OPB840W51Z*	4	0.5	20.0	10.0	.125	.315	.010	69K8462	5.760	
● OPB840W55Z*	4	0.5	20.0	10.0	.125	.315	.050	69K8463	5.500	
● OPB850A*	6	0.5	10.0	10.0	...	...	...	07H9525	3.710	
● OPB854A3	3	3.0	16.0	1.0	.100	.250	.050	08F2684	2.840	
● OPB857Z	...	1.5	20.0	10.0	.150	.355	.020	69K8465	6.870	
● OPB866T55	3	1.0	10.0	5.0	.125	.345	.050	08F2701	3.080	
● OPB871N55	3	1.0	10.0	5.0	.125	.345	.050	08F2712	2.900	
● OPB881T55Z*	5	1.0	10.0	5.0	.125	.345	.050	69K8466	5.080	

*Indicates wired version (3891)

PHOTOLOGIC® SLOTTED OPTICAL SWITCHES



Mfg. Part No.	Fig.	Output Type	I _F (+) MAX (mA)	Supply Voltage (V)	Slot (in.)		Sensor Aperture (in.)	Stock No.	Price Each
					Gap	Depth			
● OPB900W55Z	5	Buffer/TP	20	4.75-5.25	.375	.350	.050	69K8467	6.860
● OPB910W55Z	5	Buffer/TP	20	4.75-5.25	.375	.350	.050	69K8468	6.720
● OPB930W55Z	4	Buffer/TP	20	4.75-5.25	.125	.315	.050	69K8470	6.120
● OPB940W51Z	4	Buffer/TP	15	4.75-5.25	.125	.315	.010	69K8472	6.140
● OPB960N55	2	Buffer/TP	15	4.5-16.0	.125	.345	.050	08F2736	3.500
● OPB960T51	5	Buffer/TP	15	4.5-16.0	.125	.345	.010	08F2737	3.500
● OPB970N11	2	Buffer/TP	15	4.5-16.0	.125	.345	.010	08F2752	4.170
● OPB980T51Z	5	Buffer/TP	15	4.5-16.0	.125	.345	.010	69K8474	5.550
● OPB990T55Z	5	Buffer/TP	15	4.5-16.0	.125	.345	.050	69K8476	5.380
● OPB616	1	Buffer/OC	10	4.5-16.0	.150	.240	.060	52F6161	2.380
● OPB911W55Z	5	Buffer/OC	20	4.5-16.0	.375	.350	.050	69K8469	6.720
● OPB941W55Z	4	Buffer/OC	20	4.5-16.0	.125	.315	.050	69K8473	6.070
● OPB981T51Z	5	Buffer/OC	15	4.5-16.0	.125	.345	.010	69K8475	5.550
● OPB961N51	2	Buffer/OC	15	4.5-16.0	.125	.345	.010	08F2739	3.500
● OPB991L51Z	7	Buffer/OC	15	4.5-16.0	.125	.345	.010	69K8477	5.450
● OPB991L55Z	7	Buffer/OC	15	4.5-16.0	.125	.345	.050	69K8478	5.380
● OPB991T55Z	5	Buffer/OC	15	4.5-16.0	.125	.345	.050	69K8479	5.380
● OPB962N51	2	Invert/TP	15	4.5-16.0	.125	.345	.010	08F2743	3.670
● OPB962T51	3	Invert/TP	15	4.5-16.0	.125	.345	.010	08F2745	3.670
● OPB972T51	3	Invert/TP	15	4.5-16.0	.125	.345	.010	08F2754	3.670
● OPB618	1	Invert/OC	3.0	4.5-16.0	.150	.240	.060	52F6163	2.380
● OPB933W55Z	4	Invert/OC	15	4.5-16.0	.125	.315	.050	69K8471	6.120
● OPB963T55	3	Invert/OC	15	4.5-16.0	.125	.345	.050	08F2750	3.670
● OPB973N51	2	Invert/OC	15	4.5-16.0	.125	.345	.010	08F2755	3.670
● OPB973P51	7	Invert/OC	15	4.5-16.0	.125	.345	.010	99F5946	3.670
● OPB973T51	3	Invert/OC	15	4.5-16.0	.125	.345	.010	08F2757	3.670
● OPB625	1	Buffer/10K	3.0	4.5-16.0	.190	.285	.060	08F2624	2.410
● OPB917BZ	6	Buffer/10K	10	4.5-16.0	.200	.635	.010	73K1179	6.570
● OPB667T	3	Invert/10K	20	4.5-16.0	.125	.345	.010	52F6170	3.150

(9385)

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