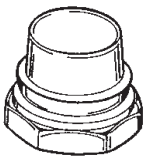
SPLASHPROOF TOGGLE AND PUSHBUTTON SWITCH SEALS



BP15320

Tyco Electronics

RoHS Compliant Available

For toggle, pushbutton switching applications. Protect against contaminants such as dirt, dust, gas, liquids. Sealing boots are flexible black neoprene. **Mfg. part no. BP5890** mount color is nickel. **Mfg. part no. BP5900** mount color is black.

Mfg. Part No.	Thread Size	Use With Series:	Stock No.	Price Each 1-9	10-24	25-49	50-99
B1048004	10-48	TT	12M5966	5.83	5.17	4.70	4.52
BP1048004	10-48	TP	14M4319	5.83	5.17	4.70	4.52
BPA1440004	...	...	39M3352	3.85	3.50	3.20	2.96
BP1532004	15/32-32	MPG, MSPF	42M1199	3.60	3.24	2.95	2.70
B1532004	15/32-32	...	22M4844	6.73	5.97	5.43	5.21
BPT1532004	15/32-32	TPF	23M1147	5.83	5.30	4.82	4.57
BPM1532004	15/32-32	MPA	35M3621	5.50	5.23	4.94	4.68

(4930)

ALUMINUM SWITCH PLATES AND NUTS

RoHS Compliant Available

Tyco Electronics

SPA-42

10264-00-120

ON/OFF SWITCH PLATES

Mfg. Part No.	Dimensions	Stock No.	Price Each 1-24	25-49	50-99	100-249
SPA-42	1.125″L x 0.680W, 0.469″ dia.	77B8956	2.98	2.71	2.47	2.26
SPA-32	0.880″L x 0.375W, 0.250″ dia.	77B8952	1.90	1.79	1.63	1.53

BRIGHT NICKEL FINISH SWITCH NUTS

Mfg. Part No.	Description	Stock No.	Price Each 1-24	25-49	50-99	100-249
N1-AG	¼-40 Knurled nut	61F913	0.48	0.45	0.41	0.39
10264-00-120	¼-40 Hex Nut	61J4556	0.32	0.30	0.27	0.26

(4932)

PLASTIC KNOBS

Knobs feature durable ABS plastic cover with light decorative top, metal insert, and 2 setscrews. All knobs listed have a 0.250″ (6.4) diameter shaft. Color: black.

SPC multicomp

RoHS Compliant Available

Mfg. Part No.	Diameter	Height	Stock No.	Price Each 1-49
MC21050	0.78″	0.48″	10M7568	0.98
MC21051	1.05″	0.63″	10M7569	1.18
MC21052	1.30″	0.65″	10M7570	1.37
MC21053	1.80″	0.80″	10M7571	1.77

(13458)

AWM SERIES HIGH-FLOW MASS AIRFLOW SENSOR

RoHS Compliant Available

Honeywell Sensing and Control

- 200 SLPM Flow Range
- 8-15VDC Excitation Voltage, 60mW Power Consumption
- 5VDC Ratiometric Output (@ 10VDC Supply)
- Low Pressure Drop: 1″ H_2O Typical
- 6ms Response Time
- Provided With Amp 103956-3 Connector
- 22mm Diameter Tapered Inlet/Outlet Ports

AWM series flow sensors feature extremely low hysteries and repeatability error (less than 0.35% of reading) and are inherently accurate over the life of the sensor. SLPM = Standard Liters Per Minute.

Mfg. Part No.	Stock No.	Price Each 1-24
AWM720P1	04M8266	204.22

(68355)

AWM 40000 SERIES MICROBRIDGE MASS GAS-FLOW SENSORS

RoHS Compliant Available

Honeywell Sensing and Control

Provides mass gas-flow sensing in a unique manifold mount package. Provides highly accurate, stable, and repeatable performance. Features: precision ceramic flow tube resulting in a non-outgassing flow channel, high common mode pressure capability (250 PSI max.), high operating temperature (to +125°C), and hydrogen compatibility. Recommended excitation: 10VDC. Dimensions: 1.2H x 0.5W x 1.3″D. Response time: 1 msec. typ. Additional flow ranges available; SLPM = Standard Liters Per Minute; SCCM = Standard Cubic Centimeters Per Minute *; go online or call.*

NON-AMPLIFIED

Mfg. Part No.	Flow Range	Output	Stock No.	Price Each 1-4
AWM42150VH	0-25 SCCM	8.5mV	04M8262	116.32
AMPLIFIED				
AWM43300V	0-1000 SCCM	5.0VDC	04M8263	127.43

(5163)

AWM 5000 SERIES MICROBRIDGE HIGHFLOW AIRFLOW SENSORS

RoHS Compliant Available

Honeywell Sensing and Control

Sensors feature a venturi-type flow housing. The microbridge chip is in direct contact with the flow stream, greatly reducing error possibilities due to orifice or bypass channel clogging. Maximum pressure drop of 2.25″ H_2O. Maximum output voltage: 5.0VDC. Supply voltage (recommended excitation): 10VDC. Common mode pressure 50PSI max. Gas calibration: CO_2 and Argon are available. Weight: 30 grams. Operating temperature range: –20°C to +70°C. Response time 60 msec max. Dimensions: 1.4H x 1.3W x 6.4″ L. SLPM = Standard Liters Per Minute.

Mfg. Part No.	Gas Calibration	Flow Range	Stock No.	Price Each 1-14
AWM5101VN	Nitrogen, N_2	0-5SLPM	92F2998	182.09
AWM5102VN	Nitrogen, N_2	0-10SLPM	04M8264	178.53
AWM5104VN	Nitrogen, N_2	0-20SLPM	04M8265	182.09

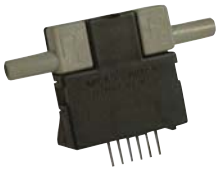
(5138)

MICROBRIDGE MASS AIRFLOW SENSORS

RoHS Compliant Available

Honeywell Sensing and Control

Operates on theory of heat transfer due to mass airflow directed across surface of a micromachined silicon sensing element. Output voltage mV or V varies in proportion to mass air or other gas flow through inlet and outlet ports of package. Supply voltage (recommended excitation): 10VDC. Common mode pressure: 25PSI max. Weight: 10.8 grams. Operating temperature range: –25°C to +85°C. Response time: 1.0 msec typ. Dimensions: 1.2H x 0.6W x 1.2″D. SCCM = Standard Cubic Centimeters Per Minute.



AMPLIFIED OUTPUTS

Mfg. Part No.	Measurement	Flow Range	Output	Stock No.	Price Each 1-14
AWM3100V	Massflow	0-200 SCCM	5.0VDC	04M8260	103.39
AWM3300V	Massflow	0-1000 SCCM	5.0VDC	04M8261	91.90
NON-AMPLIFIED OUTPUTS					
AWM2100V	Massflow	0-200 SCCM	44.5mV	04M8259	83.82
AWM2300V	Massflow	0-1000 SCCM	55.5mV	92F2997	83.82

(5139)

AWM9000 SERIES AIRFLOW SENSORS

Just Added

RoHS Compliant Available

Honeywell Sensing and Control

- Bi-directional sensing capability
- Highly stable null and full-scale
- Extremely low pressure drop
- Extremely low hysteresis and repeatability errors, less than 0.35% of reading
- Fast response time, 1 ms typical

AWM92100V

AWM92200V

The AWM92100V has a flow range o +/-200 sccm with a pressure drop of only 0.49 mBar, typically. The AWM92200V is a differential pressure version that has a range of +/- 2″ H_2O. The AWM90000 Series sensors operate with a supply voltage from 8.0 Vdc to 15.0 Vdc, while consuming only 50mW of power. The compact plastic package will withstand a maximum overpressure of 25 psi without compromising performance. The sensor is well suited for use in portable devices and battery powerd applications

Mfg. Part No.	Output Voltage @Trim Point (mV)	Stock No.	Price Each 1-24
AWM92100V	77	81H5714	30.07
AWM92200V	38	85C6582	30.07

(121384)

SENSORS – AIRFLOW • SENSORS – ANGULAR RATE • SENSORS – CURRENT

MEMS FLOW SENSORS

RoHS Compliant Available

OMRON ELECTRONIC COMPONENTS

D6F-10, -20, -50 | D6F-W | D6F-03 | D6F-V

Specifications:
- Applicable gas: Air
- Supply voltage: 26.4VDC
- Output voltage: 6VDC
- Current consumption: 15mA
- Operating humidity: 85% RH
- Operating temperature: -10°C to 60°C

Features:
- Stable output across full scale
- Low power consumption
- Dust resistant design

MASS AIRFLOW SENSORS

Mfg. Part No.	Flow Range (LPM)	Termination	Stock No.	Price Each 1-24	25-49	50-99
● D6F-03A3-000*	0 - 3	Q.D. Cable	04M8973	264.77	239.01	212.23
● D6F-10A5-000	0 - 10	Built-in R/A Connect	23M4658	300.25	270.23	240.20
● D6F-20A5-000	0 - 20	Built-in R/A Connect	23M4660	300.25	270.23	240.20
● D6F-50A5-000	0 - 50	Built-in R/A Connect	23M4662	300.25	270.23	240.20
● D6F-10A6-000	0 - 10	Built-in Straight Connect	23M4659	299.67	270.52	240.20
● D6F-20A6-000	0 - 20	Built-in Straight Connect	23M4661	299.67	270.52	240.20
● D6F-50A6-000	0 - 50	Built-in Straight Connect	23M4663	299.67	270.52	240.20
AIRFLOW SENSORS						
● D6F-V03A1	0 - 3	Q.D. Cable	23M4657	66.25	59.63	53.00
● D6F-W01A1	0 - 1	Q.D. Cable	04M8971	102.36	92.13	81.89
● D6F-W04A1	0 - 4	Q.D. Cable	04M8972	102.36	92.13	81.89

CABLE CONNECTOR ASSEMBLIES

Mfg. Part No.	For Use With	Stock No.	Price Each 1-24	25-49	50-99
● D6F-CABLE1	D6F-10A, -20A, -50A sensors	04M8969	8.87	7.99	7.10
● D6F-W CABLE	D6F-W sensors	04M8970	5.12	4.61	4.10

* Terminates with D6F-CABLE2 (optional)
(89844)

EM SERIES MASS FLOW SENSORS

RoHS Compliant Available

SENSIRION THE SENSOR COMPANY

- CMOSens Technology
- Digitally calibrated and temperature compensated
- RS-232 and SPI digital interface

Enables fast and economical measurement of gas flows over a very wide dynamic range. CMOSens technology combines a sensor element with the amplification and A/D converter circuit on one single CMOS chip. Requires a supply voltage of 7-18VDC and provides an RS-232 and SPI compliant electrical interface. Exceptionally well suited for difficult measurement conditions when fast changing gas flows must be monitored and summed up precisely.

Mfg. Part No.	Flow Range (Ln/min)	Accuracy* % measured value	Pressure Drop at full flow (mbar/psi)	Stock No.	Price Each 1-9
● EM1NV	0-200	5	100/1.45	18M2036	374.54
● EM1NR	0-20	3	20/0.29	18M2035	374.54
● EM1NL	0-0.5	3	2/0.029	07J2368	398.59

* At 1-100% full scale

EVALUATION KITS

Mfg. Part No.	For Part No.	Kits Contain	Stock No.	Price Each
● EK-F3_V	EM1NV	Sensor, 9-pin D-sub cable. Legris & Hausamann connector, power adapter, FlowViewer CD	07J2366	728.34
● EK-F3_R	EM1NR		07J2365	728.34
● EK-F3_L	EM1NL		07J2364	728.34

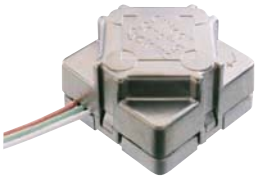
(79397)

CRS03 SERIES ANGULAR RATE SENSORS

SILICON SENSING

- Bias, Setting Tolerance: < ±3°/s
- Bandwidth: 10Hz (-3dB)
- Operating Temperature: -40°C to +85°C
- Mass: <18g
- Supply Voltage: 4.75V to 5.25V
- Supply Current: < 35mA
- Measures Perpendicular to The Mounting Plane
- Dimensions: 0.72H x 1.14W x 1.14"L (18.4 x 29 x 29mm)

Suitable for applications where the sensing axis is perpendicular to the mounting plane. Angular rate sensors are used wherever rate of turn sensing is required without a fixed point of reference. The sensor will output a DC voltage proportional to the rate of turn and input voltage.



➤ CONTINUED ➤

CRS03 SERIES ANGULAR RATE SENSORS (CONT.)

Mfg. Part No.	Rate Range (°/s)	Nominal Scale Factor (mV/°/s)	Termination	Stock No.	Price Each 1-9
CRS03-01	±100	20	3-Pins	64J7628	343.86
CRS03-02	±100	20	Pigtail and Connector	93C9882	363.40
CRS03-04S	±200	10	Pigtail and Connector	86H3888	363.40
CRS03-11	573	3.49	3-Pins	45J3771	478.74

(72949)

CURRENTWATCH SENSORS

EATON

- AC current sensing up to 2000 amps, DC current sensing up to 300 amps
- Solid or split-core housings for easy installation in new or retrofit applications
- Field adjustable current ranges allow for increased flexibility and reduced stock
- Discrete or analog outputs (4 - 20 mA, 0 - 5 V, 0 - 10 V)
- Five-year warranty, UL and CE approvals

These devices are ideal for providing status information or protection for electrified equipment. CurrentWatch products are available in both switch and sensor variety. Current switches are set to trip at an over or undercurrent condition, are designed with fixed or adjustable trip points and are ideal for providing information on AC electrified equipment. Current sensors operate by monitoring current flow in equipment. The current magnitude is converted into a linear and proportional analog signal (4 - 20 mA, 0 - 5 V or 0 - 10 V). DIN-rail mountable housing and DIN-rail mounting accessory. Visual LED indicators for easy setup and status. Self-powered models available, normally-closed or normally-open configurations.

EAC SERIES SENSORS

Mfg. Part No.	Power Supply	Current Sensing Range (A)	Output Type	Housing Style	Stock No.	Price 1-4
EAC1420SC	24V DC Loop-Powered	10,20,50	4-20mA	Solid	08N7296	185.90
EAC1420SP	24V DC Loop-Powered	10,20,50	4-20mA	Split	08N7297	227.21
EAC2420SC	24V DC Loop-Powered	100,150,200	4-20mA	Solid	08N7300	185.90
EAC2420SP	24V DC Loop-Powered	100,150,200	4-20mA	Split	08N7301	227.21
EAC205SP	Self-Powered	100,150,200	0 - 5VDC	Split	08N7298	179.01
EAC210SP	Self-Powered	100,150,200	0 - 10VDC	Split	08N7299	172.13
EACP2429USP	24V AC/DC	100,150,200	4-20mA	Split	08N7295	316.71
ECS SERIES CURRENT SWITCHES						
ECSN0ASC	Self-Powered	1 - 150	NO	Solid	08N7305	123.93
ECSN0ASP	Self-Powered	1.5 - 150	NO	Split	08N7306	141.84
ECSJ SERIES CURRENT SWITCHES						
ECSJ400SC	Self-Powered	1,40,175	NO	Solid	08N7302	123.93
ECSJ404SC	Self-Powered	1,40,175	NO	Solid	08N7304	151.47
ECSJ402SP	Self-Powered	1.75,40,200	NO	Split	08N7303	143.21
ECS7 SERIES CURRENT SWITCHES						
ECS701SC	Self-Powered	1.5 - 150	NO	Solid	08N7307	213.44
ECS711SC	Self-Powered	2.8 - 150	NO	Solid	08N7308	156.06
EGF SERIES GROUND FAULT SENSOR						
EGF3N0ACNET3	120V AC	5,10,30 mA	NO Solid-State	Solid	08N7313	309.83

(116651)

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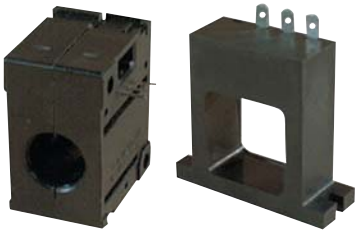
(148881)

CSD SERIES HALL-EFFECT DIGITAL OUTPUT CURRENT SENSORS

RoHS Compliant Available

Honeywell
Sensing and Control



CSD series solid-state sensors detect absence/presence of DC or AC current with digital current sink output. Response time: 100µsec. Output voltage: 0.4VDC. Changes from Vs to 0.4V at operating current. Output current: 20mA, except **mfg. part no. CSDB1CC**: 100mA. NOTE: Thru-hole design does not require electrical connection to sensed current. Max. Sensed current is only limited by the conductor size.

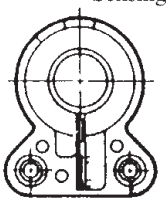
Mfg. Part No.	Terminal Type	Supply Voltage (VDC)	Operate Current (nom)*	Release Current (min)*	Stock No.	Price Each 1-24	Price Each 25-49
CSDA1BA	Solder Pins	6-16	0.50/Turn	0.08/Turn	04M8744	15.72	14.92
CSDA1BC	Solder Pins	6-16	3.50/Turn	0.6/Turn	51F2597	17.54	16.33
CSDB1CC	Spade Terminals	8-16	3.50/Turn	0.6/Turn	04M8747	152.36	144.97
CSDC1BA	Solder Pins	5 ± 0.2	0.50/Turn	0.08/Turn	04M8748	19.13	17.81
CSDA1AA	Solder and PCB Mount Pins	6-16	0.50/Turn	0.08/Turn	04M8742	18.79	17.50
CSDA1AC	Solder and PCB Mount Pins	6-16	3.50/Turn	0.6/Turn	04M8743	19.04	17.73
CSDC1DA	PCB Mount Pins	5 ± 0.2	0.50/Turn	0.08/Turn	04M8749	21.94	20.83
CSDA1DA	Amp® Connector	6-16	0.50/Turn	0.08/Turn	04M8745	18.30	17.37
CSDA1DC	Amp® Connector	6-16	3.50/Turn	0.6/Turn	04M8746	19.52	18.18

* at +25°C
(3478)

CSLA SERIES HALL-EFFECT LINEAR OUTPUT CURRENT SENSORS

RoHS Compliant Available

Honeywell
Sensing and Control



CSLA series solid-state sensors provide output voltage directly proportional to current flow. AC or DC sensing. 8-16VDC supply for **CSLA1 series**. 6-12VDC supply for **CSLA2 series**. **CSLA2 series** feature temperature compensation circuitry. Offset voltage: Vs/2. Output voltage swings from 25% of Vs to 75% of Vs. **NOTE:** Thru-hole design does not require electrical connection to sensed current. Max. sensed current is only limited by the conductor size. 3µsec. response time. Sensors with 57A to 950A capabilities also available; *go online or call.*

BOTTOM MOUNT w/9SS SENSOR, SOURCE OUTPUT

Mfg. Part No.	Sensed Current (A)	Sensitivity mV*N at 12VDC	Stock No.	Price Each 1-24	Price Each 25-49
CSLA1CD	0-57	49.6	10M8406	18.93	17.97
CSLA1CF	0-100	29.7	16M2414	22.12	20.60
CSLA1DJ	0-225	13.2	10M8407	22.48	20.93
CSLA1DK	0-325	9.1	10M8408	29.18	27.17

BOTTOM MOUNT w/SS9 SENSOR, SINK/SOURCE OUTPUT

Mfg. Part No.	Sensed Current (A)	Sensitivity mV*N at 8VDC	Stock No.	Price Each 1-14	Price Each 15-24
CSLA2CD	0-72	32.7	10M8409	17.83	15.20
CSLA2CF	0-125	19.6	10M8410	16.35	15.22
CSLA2DH	0-235	9.8	16M2415	34.25	31.89
CSLA2DJ	0-225	8.7	48F2802	36.15	33.66
CSLA2EL	0-550	4.3	16M2417	37.48	34.89

SIDE MOUNT w/SS9 SENSOR, SINK/SOURCE OUTPUT

CSLA2GE	0-92	26.1	16M2418	21.91	20.40
CSLA2GF	0-125	19.6	16M2419	22.91	21.33

(3477)

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(148857)

CSN SERIES HALL-EFFECT NULL-BALANCE LINEAR CURRENT SENSORS

RoHS Compliant Available

Honeywell
Sensing and Control

CSNA111

CSNE151

CSN series solid-state sensors measure AC, DC, and impulse currents. Operation based on the Hall-effect principle and the null-balance or zero magnetic flux method (feedback system). The magnetic field on the sensor is constantly controlled at zero. The amount of current required to balance zero flux is the measure of primary current flowing through conductor multiplied by the ratio of the primary to secondary windings. ±0.5% accuracy. Response time: 1µsec. NOTE: Thru-hole design does not require electrical connection to the sensed current. Max. sensed current is only limited by the conductor size. Sensors with up to 1200A of sensed current also available; *go online or call.*

Mfg. Part No.	Supply Voltage	Sensed Current	Nominal Output	Stock No.	Price Each 1-24	Price Each 25-49	Price Each 50-99	Price Each 100-249
CSNA111	±15VDC	±70A	50mA	10M8411	28.30	26.35	25.01	22.93
CSNE151	±15VDC	±5-36A	25mA	10M8412	27.39	25.50	24.21	22.20

(3410)

RS/RSS OPEN LOOP CURRENT SENSOR

FW BELL

RS/RSS-A series open-loop hall effect current sensor accurately measures AC and DC currents and provides electrical isolation between the circuit being measured and the output of the sensor. The **RS-A series** operates from dual DC supply voltages of ±15V to ±18V. The **RSS-A series** operates from a single DC supply voltage of 12V to 18V, with a zero current output of 6VDC. All models are in the same standard package and have the versatility to be panel or bulk-head mounted.

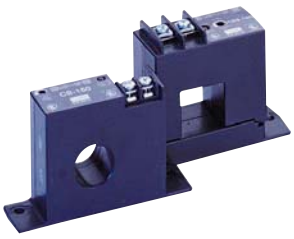
Mfg. Part No.	Nominal Current (A)	Output (mV/A)	Stock No.	Price Each 1-4	Price Each 5+
RS-100A	100	40	87H5552	56.85	51.57
RS-200-A	200	20	45J2871	58.17	52.77
RS300A	300	13.33	56J8731	59.48	53.97
RS-500-A	500	8	89J1820	62.12	56.36
RSS-200-A	200	8	89J1822	54.21	49.18
RSS-300A	300	5.33	86H3829	55.51	50.36
RSS-500-A	500	3.2	89J1824	58.17	52.77
RSS-1000-A	1000	1.6	89J1821	60.80	55.16

(84578)

AC AND DC CURRENT SENSORS AND SWITCHES

UL

FW BELL



Mfg. part nos. 155125 thru 155128 sensors provide 4-20mA output proportionate to AC current. **SCC series** provide either a 4-20mA or a 0-20mA unipolar output proportional to AC or DC current. **SCV series** provides either a 0-5V or 0-10V unipolar output proportional to AC or DC current. **CS/CSS series** detects AC current from 1A to 150A and provides a switched output when the current exceeds the adjustable switch point. Adjustment is made via multi-turn trim pot. **Mfg. part nos. 115127, 115128,** as well as **CSS, SCC,** and **SCV series** clamp around existing wiring for easy installation. **Mfg. part nos. 115125** thru **155128** and **CS/CSS series** feature simple 2-wire connection and interface to PLCs. **SCC** and **SCV series** require 24VAC/VDC operating voltage. All models are panel-mounted, feature jumper range selection. UL listed. Higher current units are available. *Go online or call.*

Mfg. Part No.	Range AC (A)	Output	Aperture	Stock No.	Price Each
155125	10-20-50	4-20mA	0.73″	92F4429	169.28
155126	100-150-200	4-20mA	0.73″	92F4430	186.01
155127	10-20-50	4-20mA	0.85″	92F4431	208.34
155128	100-150-200	4-20mA	0.85″	92F4432	234.37
CS-150	1-150	Switch	0.73″	01F816	123.69
CSS-150	1.5-150	Switch	0.85″	01F817	143.24
SCC-100P	50-75-100*	4-20mA	0.85″	48F4355	279.01
SCC-100C	50-75-100*	0-20mA	0.85″	48F4356	279.01
SCV-100L	50-75-100*	0-5V	0.85″	48F4357	292.97
SCV-100H	50-75-100*	0-10V	0.85″	48F4358	292.97

*AC(A) or DC(A)
(3460)

SENSORS – CURRENT • SENSORS – FLOW

IHA SERIES HIGH FREQUENCY CURRENT SENSORS

Response <1µs. Frequency range DC to 50kHz. Linearity ±1%. Operating voltage ±12VDC to ±15VDC. Temperature range 0°C to +75°C. Case design allows for either panel or PCB mounting by use of appropriate connector; *go online or call*. Mounting tabs accept No.6 screws for placement on PCB or panel. Ideal for use in solid-state circuits.

Mfg. Part No.	Current Range	Full Scale Output	Aperture	Stock No.	Price Each
IHA-25	±25A	±1V	0.38″	92F4411	146.39
155970	±100A	±5V	0.38″	92F4412	146.39

(3459)

CLOSED LOOP CURRENT SENSORS

CLN-200

Closed loop sensors null out the flux produced by the current through the aperture. Output is a current that is proportionate to the aperture current divided by the number of turns on the coil. **Mfg. part nos. CLN-25/50/100** mount directly on PCB. **Mfg. part nos. CLN-200/1000** mounts on the panel. Response time less than 1µs. Linearity 0.2%. Frequency range: DC to 100kHz min.

Mfg. Part No.	Nom. Current (A_{RMS})	Output (mA/A)	Operating Voltage (±VDC)	Aperture	Stock No.	Price Each
CLN-25*	25	1	15	PCB	83F2354	29.30
CLN-50	50	1	15	0.39 x 0.53″	83F2355	36.33
CLN-100	100	1	15	0.39 x 0.53″	83F2357	57.42
CLSM-05MA	0.005	5	18	PCB	48J6052	30.95
CLSM-10MA	0.01	2.5	18	PCB	48J6054	32.12
CLSM-25M	25	1	18	PCB	64J9088	25.61
CLSM-50LA	50	1	18	0.402″ x 0.795″	84J2272	34.77
CLSM-100S	100	0.5	18	0.276″ x 0.630″	84J2267	24.93
CLSM-200LA	200	0.5	18	0.402″ x 0.795″	84J2268	35.26
CLSM-300	300	0.5	18	0.787″ dia.	84J2271	86.76
CLSM-1000	1000	0.2	18	1.58″ dia.	22J0781	145.45
CLSM-2000	2000	0.2	24	1.58″ dia.	84J2269	300.87

***CL-25** offers choice of ranges via connection to pins on sensor: 5, 6, 8, 12 or 25 Arms.

(3458)

NT SERIES AND MS-15 CURRENT SENSORS

NT-5

NT-15

NT-25

NT-50

MS-15

NT series thin footprint current sensors mount directly to PC Board. All electrical connections are via thru-hole pins. Small size (less than 0.25″ wide) allows placement in applications with limited board space. Measure AC and DC currents. Frequency Response DC to 50kHz. Linearity ±1%. Response time <2µs. Sensors operate from +0°C to +70°C. Ideal replacement for shunts where electrical isolation is required.

Mfg. Part No.	Nom. Current (Arms)	Full Scale Output	Voltage (VDC)	Stock No.	Price Each 1-5	Price Each 6-9
NT-5	5	2.5V	±15	16F6749	32.69	30.06
NT-15	15	2.5V	±15	16F6750	34.09	30.85

➤ CONTINUED ➤

NT SERIES AND MS-15 CURRENT SENSORS (CONT.)

Mfg. Part No.	Nom. Current (Arms)	Full Scale Output	Voltage (VDC)	Stock No.	Price Each 1-5	Price Each 6-9
NT-25	25	2.5V	±15	16F6751	35.93	32.51
NT-50	50	2.5V	±15	16F6752	37.77	34.17

MS-15 CURRENT SENSOR

The miniature MS sensor measures DC and AC currents and provides electrical isolation between the circuit being measured and the output. The unipolar power source, small size and low cost make it the most cost effective solution for Hall effect current sensing in the industry. Supply voltage is +5VDC.

Mfg. Part No.	Measurement Range	Output	Stock No.	Price Each 1-4	Price Each 5-9
MS-15	(± 15A)	0.08 - 0.15 V/A	49H8118	11.45	10.50

(3586)

FS SERIES LIQUID LEVEL SENSORS

Just Added

RoHS Compliant Available

cynergy3 components

22mm / 15mm

- Contact form: SPST-NO
- Switching power max. VA: 15
- Switching voltage AC max.: 240
- Switching voltage DC max.: 120
- Switching current max. A: 1.0
- Maximum operating pressure: 10 bar. (140 psi)
- Temperature rate to 85°C (185°F)

Our range of Flow Switches are reed switch based devices which are manufactured in Acetal resin. These switches are designed for use in liquid flow systems up to 10 bar pressure. Advanced design ensures minimal fluid flow restriction. Flow switches can be mounted horizontally or vertically. As the operating piston is returned to its original position by gravity the cap must always be upwards. Greater operate flow sensitivity is achieved with vertical installation. Supplied with 25cm cable.

Mfg. Part No.	Pipe Size (mm)	Operate Flow litres/min. / (US gals/min.)	Release Flow / (US gals/min.)	Stock No.	Price Each 1-4
● FS15A	15	2/ (0.53)	0.3 l/min/ (0.08)	89C5074	19.99
● FS15LF	15	0.9/ (0.24)	0.25 l/min/ (0.07)	89C5076	21.52
● FS22A	22	3.75/ (0.99)	1.40 l/min/ (0.37)	89C5077	20.99

(133295)

RFA SERIES ANALOG FLOW RATE MONITORING SENSORS

Just Added

Gems Sensors & Controls — Our Experience • Your Solution

Polypropylene

Brass

The Gems RFA Series is a paddlewheel flow monitoring sensor with analog output and integral visual confirmation. The sensor provides a 0-10 Vdc analog output that is proportional to flow rate.

Mfg. Part No.	Body Material	Port Size NPT	Flow Rate GPM	Stock No.	Price Each 1-4
170290	Polypropylene	0.25″	0.1 to 1.0 (±7%)	22M4294	230.69
170280	Polypropylene	0.25″	0.5 to 5.0 (±7%)	06R2339	185.19
170291	Polypropylene	0.50″	1.5 to 12.0 (±7%)	18M4615	247.07
170281	Polypropylene	0.50″	4.0 to 20.0 (±7%)	23K2525	283.92
170292	Brass	0.25″	0.1 to 1.0 (±7%)	08N7884	328.97
170282	Brass	0.25″	0.5 to 5.0 (±7%)	45J3621	342.62
170293	Brass	0.50″	1.5 to 12.0 (±7%)	64M6754	316.68
170283	Brass	0.50″	4.0 to 20.0 (±15%)	06R2340	185.19
180407	Brass	0.75″	5.0 to 30.0 (±10%)	23K2530	378.56

(147209)

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(148830)

FS-380P SERIES - INDUSTRIAL STRENGTH INLINE PLASTIC FLOW SWITCHES

Just Added

Gems Sensors & Controls
Our Experience • Your Solution

The FS-380P flow switch offers the same superior performance to non-clogging as its metal cousin (FS-380). The fixed set point and simple design make it a dependable switch. The FS-380P is an ideal choice for coolant applications requiring reliable flow detection in HVAC, semiconductor, welding, medical, and other indsutries.

Mfg. Part No.	Flow Setting GPM	Stock No.	Price Each 1-4
209876	0.15	06R2341	46.05
197081	0.25	02H2973	61.43
197082	0.5	02H2974	95.55
197083	1	02H2975	95.55
197084	1.5	02H2976	95.55
197085	2	02H2977	95.55

(147210)

FT-330 - TURBOFLOW FLOW-RATE SENSORS

Just Added

Gems Sensors & Controls
Our Experience • Your Solution

Features

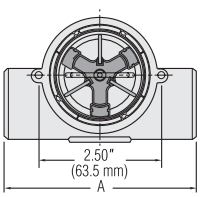
- Hall Effect Turbine Flow Sensor for low OEM Applications
- NSF (STD 61) Approved Materials
- Ideal for use in water or beverage dispensing application
- 316 stainless steel shaft
- Delrin® bearings
- Standard Power & Output makes it easy to retrofit existing controllers

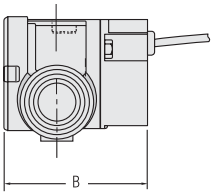
Mfg. Part No.	Flow Rate GPM	Flow Rate Liters/m	Pulses Per Gallon	Pulses Per Liter	Frequency Output (Hz)	Stock No.	Price Each 1-4
226000	0.2 - 2	0.8 - 7.6	10,313	2724	32-343	06R2342	95.10
226100	0.4 - 4	1.5 - 15	4994	1319	29-343	06R2343	95.10

(147211)

RFO SERIES FLOW RATE MONITORING SENSORS

Gems Sensors & Controls
Our Experience • Your Solution





Output signal for **RFO series** is an on/off pulse of the DC voltage supplied to the unit, it is compatible with all digital logic families. Input voltage range is 4.5 to 24VDC. Frequency of the output pulse is proportional to the flow rate and ranges from approximately 25Hz at low flow to 225Hz at high flow.

Mfg. Part No.	Body Material	Port Size NPT	Flow Range GPM	Dimensions A	Dimensions B	Stock No.	Price Each 1-9
155421	Polypropylene	0.25″	0.5-5.0 (±7%)	3.06″ (77.7mm)	2.38″ (60.5mm)	92C8701	100.70
155481		0.50″	4.0-20.0 (±15%)			92C8704	100.70
156261	Brass	0.25″	0.5-5.0 (±7%)	3.01″ (76.4mm)	2.32″ (58.9mm)	92C8708	168.54
194761		0.75″	5.0-30.0 (±15%)	3.94″ (100mm)	2.95″ (74.6mm)	92C8745	168.54
194762		1.00″	8.0-60.0 (±15)			92C8746	168.54

(72581)

FS-150 SERIES FLOW SWITCHES

Gems Sensors & Controls
Our Experience • Your Solution

- Port Size: ½″ NPT
- Primary Construction Material: Polypropylene
- Ryton® -R4, 316 Stainless Steel Piston
- 316 Stainless Steel Spring
- Maximum Operating Pressure: 200 PSIG @ +70°F to +150°F (+21.1°C to +65.5°C); 150 PSIG @ +150°F to +212°F (+65.5°C to +100°C)
- Operating Temperature: 0°F to 212°F (-17.8°C to +100°C)
- Length: 5 23/32″
- Quick connect terminals: ¼″
- Switch: SPST, 20VA

These slim, inline switches reduce pressure drop to a minimum. Liquids are able to smoothly pass around the piston and flow through the switch with little pressure loss to the down stream line.

Mfg. Part No.	Flow Settings GPM	Stock No.	Price Each 1-9
129660	0.5	92C8689	85.28
129661	1.0	92C8690	85.28
129662	2.0	92C8691	85.28
129663	3.0	92C8692	85.28

(72574)

FS3 AND FS4 SERIES LIQUID FLOW SWITCHES

RoHS Compliant Available

Gems Sensors & Controls
Our Experience • Your Solution

FS-3 Series

FS-4 Series

FS-3 series switches are specifically designed for reliable operation in clean post-filtered water. Noryl® housing with 316 stainless steel spring and stop pin. Pressure rating: 150 psi @ +70°F; 50 psi @ +212°F. Operating temperature: 0°F to 212°F (17°C to 100°C) max. **FS-4 series** switches have a Ryton® R4 housing and piston with a 316 stainless steel spring. Max. operating pressure: 250 psi @ +17°C. Operating temperature: 0°F to +225°F (17°C to 107°C).

FS-3 AND FS-4 SERIES SPST SWITCHES

Mfg. Part No.	Flow Setting GPM	Length	Port Size	Stock No.	Price Each 1-9
● 165841	0.25	4.1″	¼″ Male NPT	92C8721	89.64
● 165842	0.50			92C8722	89.64
● 165843	1.00			92C8723	89.64
122340	0.1	3.80″	9/16″-18 UNF	02H2827	87.87
FS-4 SERIES SPDT SWITCH					
● 122353	0.25	3 5/8″	9/16″-18 UNF	92C8684	97.97
● 122357	1.5	3.80″	9/16″-18 UNF	92C8688	97.97

(72573)

FS-925 SERIES GENERAL PURPOSE FLOW SWITCHES

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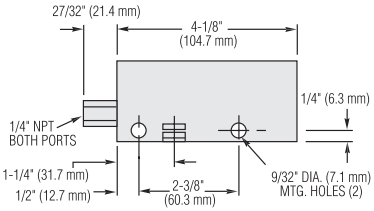
Our Experience • Your Solution



- Brass Housing
- Piston in Brass Housing: Polysulfone for Water, Brass for Oil and Air
- 316 Stainless Steel Spring
- Max. Operating Pressure Rating: 1000 PSIG
- Operating Temperature with Brass: -20°F to +300°F (-29°C to +148.9°C)
- Switch: SPDT, 20VA
- Inlet/Outlet Ports: ¼″ NPT

FS-925 series switches provide accurate detection of excessive or insufficient flow rates in such applications as protecting against loss of fluid flow in hydraulic systems, assuring proper coolant flow in semiconductor processing equipment, monitoring high pressure lubrication systems and ensuring proper air flow in water/waste systems.

➤ CONTINUED ➤

SENSORS – FLOW • SENSORS – FORCE

FS-925 SERIES GENERAL PURPOSE FLOW SWITCHES (CONT.)

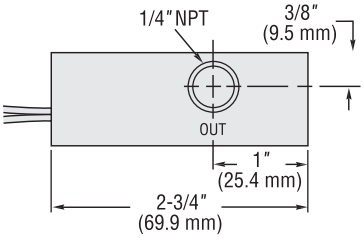
Mfg. Part No.	Flow Settings GPM, ±10%	Stock No.	Price Each 1-9
26914	0.10	92C8758	179.14
26915	0.25	92C8759	179.14
26916	0.50	92C8760	179.14

(72576)

FS-927 SERIES COMPACT FLOW SWITCHES

RoHS Compliant Available

Gems Sensors & Controls
Our Experience • Your Solution



- Brass Housing and Piston
- 316 Stainless Steel Spring
- Operating Pressure: 1000 PSIG Max.
- Operating Temperature: -20°F to +200°F (-29°C to 93.3°C)
- Switch: SPST-NO @ No Flow, 20VA
- Inlet/Outlet Ports: ¼" NPT

Measuring only 1" x 2¾", these compact switches are ideal for use where space is at a premium. Designed for use with water and oil. They are ideal for coolant or lubricant flow monitoring in portable equipment and many other applications with space constraints.

Mfg. Part No.	Flow Settings GPM	Stock No.	Price Each 1-9
● 70820	0.10	92C8782	94.50
● 70821	0.25	92C8783	94.50
● 70822	0.50	92C8784	94.50
● 70824	1.00	92C8786	94.50

(72577)

FS-550 SERIES HIGH PRESSURE PADDLE TYPE FLOW SWITCHES

Gems Sensors & Controls
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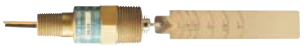

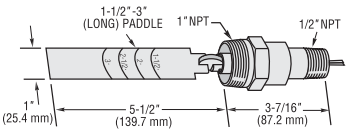

- Pipe Line Size: 1¼" and Up
- Maximum Operating Pressure: 2000 PSIG
- Pressure Drop: 3 PSIG Maximum
- Operating Temperature: -30°F to +300°F (-34.4°C to +148.9°C)
- Switch: SPDT, 20VA

Standard **FS-550** switches sense liquid flow in either direction to monitor flow/no-flow conditions. They are supplied in two paddle lengths. The paddle is trimmed during installation to permit switch actuation at the desired flow rate. As flow increases in a pipe, the paddle of the switch pivots to move out of the liquid path, producing less than 3 PSIG of pressure drop regardless of pipe size.

Mfg. Part No.	Paddle Length	Housing Material	Switch Operation	Stock No.	Price Each 1-9
29609	Long	Brass	N.O. or N.C.	92C8765	194.35
29608		316 SS		92C8764	298.13
30640	Short	316 SS		92C8768	298.13

(72580)

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(148833)

COMPACT, HIGHLY RELIABLE FLOW-SENSOR WITH UNIQUE DUST SEGREGATION SYSTEM

RoHS Compliant Available

OMRON ELECTRONIC COMPONENTS

- Applicable gas: Air
- Supply voltage: 5-10VDC
- Output voltage: 0.5-1.5VDC
- Current consumption: 15mA
- Operating humidity: 85% RH
- Operating temperature: -10 to 60 °C

AIR FLOW SENSORS

Mfg. Part No.	Flow Range (LPM)	Termination	Stock No.	Price Each 1-24	Price Each 25-49
● D6F-P0010A1	0 - 1	PCB	88M3809	47.44	44.33
● D6F-P0010A2	0 - 1	Cable with Connector	88M3810	47.44	44.33

CABLE CONNECTOR ASSEMBLY

Mfg. Part No.	For Use With	Stock No.	Price Each 1-24	Price Each 25-49
● D6F-CABLE2	Cable Connector Sensor	88M3808	8.87	7.99

(109719)

FSG SERIES FORCE SENSOR

RoHS Compliant Available

Honeywell
Sensing and Control

- Compact commercial grade package
- Robust performance characteristics
- Adaptable product design
- Precision force sensing
- Electrically ratiometric output
- Extremely low deflection (30 microns typ. at Full Scale)
- High ESD resistance 10 kV
- Available signal conditioning
- Optional terminal configurations

The FS Series Sensors provide precise, reliable force sensing performance in a compact commercial grade package. The sensor features a proven sensing technology that utilizes a specialized piezoresistive micro-machined silicon sensing element. The low power, unamplified, noncompensated Wheatstone bridge circuit design provides inherently stable mV outputs over the force range.
Force sensors operate on the principle that the resistance of silicon implanted piezoresistors will increase when the resistors flex under any applied force. The sensor concentrates force from the application, through the stainless steel plunger, directly to the silicon sensing element. The amount of resistance changes in proportion to the amount of force being applied. This change in circuit resistance results in a corresponding mV output level.

Mfg. Part No.	Operating Force (g)	Supply Voltage (VDC)	Sensitivity (mV/g)	Overforce (g)	Stock No.	Price Each 1-14
● FSG15N1A	0 - 1500	10 - 12	0.24	5500	15N4325	56.17

(121121)

SENSOTEC MODEL 13 SUBMINIATURE LOAD CELLS

Honeywell
Sensing and Control

Features:
- Stainless steel construction
- Measure load ranges from 1000g to 1000lbs
- mV/V output
- Subminiature dimensions, with height ranging from 0.13 to 0.25in, allow easy incorporation into limited applications

Specifications:
- Infinite resolution
- Electrical termination: Integral 5ft twisted cable with balance board included 2ft from load cell
- Foil strain gage
- Shunt calibration data included
- Operating temperature: -65°F to 250°F

Mfg. Part No.	Range	Stock No.	Price Each 1-24
AL322AR	1000g	27M3390	833.86
AL322AV	10lbf	27M3391	555.47
AL322BL	25lbf	27M3392	816.38
AL322BN	50lbf	27M3393	742.31
AL322BR	100lbf	27M3394	742.43
AL322CN	250lbf	27M3395	706.88
AL322CV	1000lbf	27M3396	555.47

(90228)

SENSOTEC MODEL 31 PRECISION LOW AND MID RANGE LOAD CELLS

Honeywell
Sensing and Control

Features:
- Stainless steel welded construction
- Miniature design
- Measure wide range of both tension and compression load forces from 250g to 1,000lbs
- Shunt calibration data included
- Other applications include cable tension and electromechanical parts testing

Specifications:
- Male threads
- Infinite resolution
- Foil or semiconductor strain gage type
- Integral 5ft. teflon cable termination
- Operating temperature range: -65°F to 250°F
- Call for higher ranges greater than 2,000lbs

LOW RANGE

Mfg. Part No.	Range	Stock No.	Price Each
AL311AN 4A	250 gm	27M1580	1335.55
AL311AR	1000 gm	27M1581	1061.13
MID RANGE			
AL311AV	10 lbs	27M1583	743.92
AL311BL	25 lbs	27M1584	1036.97
AL311 BN	50 lbs	27M1579	743.92
AL311BR	100 lbs	27M1585	743.92
AL311CN	250 lbs	27M1586	959.09
AL311CR	500 lbs	27M1587	722.00
AL311CV	1000 lbs	27M1588	1061.13

(90038)

SENSOTEC MODEL 53 LOW COST LOAD CELLS

Honeywell
Sensing and Control

Features:
- Designed for low cost production and testing applications
- Stainless steel welded construction
- Excellent long-term stability and reliability under severe operating conditions
- Integral load button machined as part of the load cell

Specifications:
- ±0.25% non-linearity
- Infinite resolution
- Output: 2mV/V
- Operating temperature: -65°F to 250°F
- Bonded foil strain gage
- Shunt calibration data included
- Integral 5ft teflon cable termination

Mfg. Part No.	Range (lbf)	Stock No.	Price Each
AL131CR	500	27M2018	451.39
AL131CV	1000	27M2019	451.39
AL131DL	2000	27M2020	451.39
AL131DR	5000	27M2021	513.84
AL131DV	10000	27M2022	513.84
AL131EL	20000	27M2023	617.92
AL131EP	50000	27M2024	723.10

(90229)

SENSOTEC MODEL 41 PRECISION LOAD CELLS

Honeywell
Sensing and Control

Features:
- Two stabilizing diaphragms reduce side-loading effects
- Stainless steel welded construction
- Measures wide range of both tension and compression load forces from 50lb to 50000lb
- Shunt calibration data included
- Applications include tube mills, extruding processes and weighing

Specifications:
- Low profile, "pancake" type load cell
- Threaded hole runs completely through center of cell
- Bonded foil strain gage type
- Infinite resolution
- Operating temperature: -65°F to 250°F
- Mating connector and cable assemblies not included; order separately below

Mfg. Part No.	Range (lbf)	Stock No.	Price Each
AL111BN	50	27M1712	760.35
AL111BR	100	27M1713	1117.48
AL111CR	500	27M1714	1117.48
AL111CV	1000	27M1715	1349.35
AL111DR	5000	27M1716	1279.80
AL111DV	10000	27M1717	1022.20

➤ CONTINUED ➤

SENSOTEC MODEL 41 PRECISION LOAD CELLS (CONT.)

Mfg. Part No.	Range (lbf)	Stock No.	Price Each
AL111EL	20000	27M1718	1721.64
AL111EP	50000	27M1719	1721.64

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each
AA111	PT06A-10-6S mating connector up to 5000lbs	27M1708	48.80
AA113	PT06A-10-6A connector with 15ft of 4-conductor cable up to 5000lbs	27M1709	99.00
AA121	MS3106A-14S-6S mating connector 10000lbs and above	27M1710	54.10

(90231)

SENSOTEC UNIVERSAL IN-LINE AMPLIFIERS

Honeywell
Sensing and Control

Features:
- For applications where transducer must be located away from the display
- Long signal transmission with minimal signal loss
- Compatible with any strain gage sensor
- Meets NEMA 4 and IP66 ratings for water resistance

Specifications:
- Operating voltage: 18-32VDC
- Linearity: 0.02% F.S.

Mfg. Part No.	Model	Output	Stock No.	Price 1-14
BE125	U3W	4-20mA	29M9216	477.88
BE127	UV10	±10VDC	29M9217	502.57

(90545)

CHIPCAP HUMIDITY AND TEMPERATURE SENSORS

NEW TECHNOLOGY

GE Sensing

Features:
- Simultaneous relative humidity and temperature outputs
- Factory calibrated ready to use
- Designed for automated assembly

Specifications:
- Precision accuracy: ±2% RH, ±0.6°C
- Resolution 0.4% RH
- Factory selectable analog or digital outputs
- Supply voltage: 3V to 5.5V
- Low quiescent current: 0.5mA at 5V
- Package style: 14-SOP

SOLD INDIVIDUALLY

Mfg. Part No.	Description	Stock No.	Price Each 1-9
CHIPCAP-D	RH and Temp. Sensor, Digital Output	10R6244	19.95
CHIPCAP-L	RH and Temp. Sensor, 0-1VDC Linear Output	10R6245	22.74
CHIPCAP-R	RH and Temp. Sensor, 0.5-4.5VDC Ratiometric Output	10R6246	22.74

SOLD IN TUBES OF 50

Mfg. Part No.	Description	Stock No.	Price per Pkg 1-4
CHIPCAP-D-50-TUBE	RH and Temp. Sensor, Digital Output	10R1417	573.33
CHIPCAP-L-50-TUBE	RH and Temp. Sensor, 0-1VDC Linear Output	10R1418	653.66
CHIPCAP-R-50-TUBE	RH and Temp. Sensor, 0.5-4.5VDC Ratiometric Output	10R1419	653.66

(148529)

HCH-1000 CAPACITIVE HUMIDITY SENSORS

Honeywell
Sensing and Control

- Polymer sensing offers enhanced resistance against contamination
- Reduced temperature dependence
- Semiconductor fabrication technology, uses glass wafer as substrate
- Enhanced sensitivity and accuracy, fast response
- Low hysteresis and long-term stability

The HCH-1000 series humidity sensor is a capacitive polymer sensor designed for relative humidity measurement. The sensor converts humidity value into capacitance, which can be measured electronically. Polyimide is used as a humidity sensing material because of its inherent IC (Integrated Circuit) processing compatibility, reduced temperature

➤ CONTINUED ➤

SENSORS – HUMIDITY

HCH-1000 CAPACITIVE HUMIDITY SENSORS (CONT.)

dependence and enhanced resistance against contamination. The HCH-1000- Series is manufactured using semi-conductor technology. The sensor consists of a grid top electrode, a polyimide layer, and a bottom electrode. The grid top electrode on the bottom electrode provides enhanced sensitivity when compared to that of a standard structure.

Mfg. Part No.	Description	Capacitance (pF)	Accuracy (+/-%)	Stock No.	Price Each 1-14	Price Each 15-24
HCH-1000-001	Uncovered Device	330	2	60M2938	4.30	4.08
HCH-1000-002	Covered Device	330	2	60M2941	4.40	4.18

(109391)

HIH-4000 SERIES HUMIDITY SENSORS

Honeywell
Sensing and Control

RoHS Compliant Available

FEATURES
- Molded thermoset plastic housing
- Linear voltage output vs %RH
- Laser trimmed interchangeability
- Low power design
- High accuracy
- Fast response time

A more robust version of the **HH 3610 series**, **HIH-4000 series** humidity sensors typically draw only 200µA of current, ideally suited for low drain, battery operated systems. Delivers instrumentation-quality RH (Relative Humidity) sensing performance in a competitively priced, solderable SIP (Single In-Line Package). Available in two lead spacing configurations, the RH sensor is a laser trimmed, thermostet polymer capacitive sensing element with on-chip integrated signal conditioning. The sensing element's multilayer construction provides excellent resistance to most application hazards such as wetting, dust, dirt, oils and common environmental chemicals.

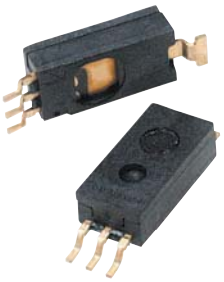
Mfg. Part No.	Description	Lead Pitch (in.)	Stock No.	Price Each 1-14
● HIH-4000-002	Integrated circuitry	0.050	71J4531	18.67
● HIH-4000-004	Integrated circuitry with calibration and data printout	0.050	31M9177	14.91
● HIH-4000-001	Integrated circuitry	0.100	12M6693	21.01
● HIH-4000-003	Integrated circuitry with calibration and data printout	0.100	15M0250	24.04

(85461)

HIH-4030/31 HUMIDITY SENSORS

Honeywell
Sensing and Control

RoHS Compliant Available



- Molded thermoset plastic housing, Laser trimmed interchangeability
- Near linear voltage output vs %RH
- Low power design, Enhanced accuracy, Fast response time
- Stable, low drift performance
- Chemically resistant

Direct input to a controller or other device is made possible by this sensor's near linear voltage output. With a typical current draw of only 200 uA, the HIH-4030/4031 Series is often ideally suited for low drain, battery operated systems. Tight sensor interchangeability reduces or eliminates OEM production calibration costs. The HIH-4030/4031 Series delivers instrumentation-quality RH (Relative Humidity) sensing performance in a competitively priced, solderable SMD. The HIH-4030 is a covered integrated circuit humidity sensor. The HIH-4031 is a covered, condensation-resistant, integrated circuit humidity sensor that is factory-fitted with a hydrophobic filter allowing it to be used in condensing environments including industrial, medical and commercial applications. The RH sensor uses a laser trimmed, thermoset polymer capacitive sensing element with on-chip integrated signal conditioning. The sensing element's multilayer construction provides excellent resistance to most application hazards such as condensation, dust, dirt, oils and common environmental chemicals. POTENTIAL APPLICATIONS Refrigeration equipment, HVAC (Heating, Ventilation and Air Conditioning), equipment, Medical equipment, Drying, Metrology, Battery-powered systems, OEM assemblies

Mfg. Part No.	Description	Accuracy (+/-%)	Stock No.	Price Each 1-14	Price Each 15-24
HIH-4030-001	Integrated circuit	3.5	62M4608	17.01	14.45
HIH-4030-003	Integrated circuit w/calibration and data printout	3.5	61M2125	18.37	15.60
● HIH-4031-001	Filtered Integrated circuit	3.5	62M4609	19.91	16.91
HIH-4031-003	Filtered integrated circuit w/calibration and data printout	3.5	62M4610	21.27	18.06

(109390)

Expert technical support

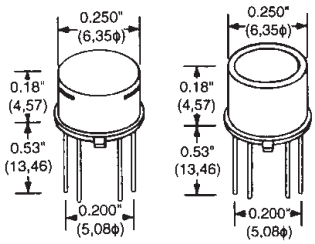
Chat online to our team of engineers, or connect to them through your representative.

(148838)

HIH-4602 SERIES HUMIDITY SENSORS

RoHS Compliant Available

Honeywell
Sensing and Control



TO-39 Package TO-5 Package

Features:
- Linear voltage output vs. %RH
- Laser trimmed interchangeability
- High accuracy, fast response
- Chemically resistant
- Stable, low drift performance
- Built-in static protection
- Ideal for dew point and absolute moisture measurements
- TO-39 or TO-5 housings

Specifications:
- Rh range: 0-100%RH
- Temperature range: –40°C to +85°C
- Accuracy: ±3.5%RH
- Voltage output: V_{OUT} = 0.00003(Sensor RH)^2+0.0281(Sensor RH)+0.820 Typical @ 25°C
- Temperature compensation: V_{OUT} = (0.0305+0.000044T-0.0000011T^2)(Sensor RH)+(0.9237-0.0041T+0.000040T^2) T = Temperature in °C

Applications:
- Refrigeration
- Drying
- Meterology
- Battery-Powered Systems

Replacement for the HIH-3602 series humidity sensor. TO-5 package provides hydrophobic sintered SST filtered for maximum protection in harsh or splash-prone environments. TO-39 slotted package provides gross mechanical protection and faster response time.

Mfg. Part No.	Temp. Sensor	Interchange-ability	Data Included	Package	Stock No.	Price Each 1-14
● HIH-4602-A	100kΩ	+/-3.5 % RH	Yes	TO-5	14M5850	105.15
● HIH-4602-C	1k PRTD	+/-3.5 % RH	Yes	TO-5	17M6711	79.77
● HIH-4602-L	None	+/-3.5 % RH	No	TO-39	68K0554	40.65

(85848)

HIH-5030/31 SERIES HUMIDITY SENSORS

Just Added

Honeywell

Features:
- Surface Mount Device
- Complement our existing HIH-4030/4031 line of SMD humidity sensors by operating at lower supply voltage (down to 2.7 VDC)
- Supports demanding system performance, accuracy and response time over the entire humidity range of 0-100% RH
- Allows for application flexibility due to its small, space-saving housing profile
- Provides enhanced resistance to condensation, contaminants due to its multi-layer construction and hydrophobic filter
- Provides instrumentation-quality performance due to its near linear output
- Supply voltage: 3 V

Potential Applications:

Industrial:
- Air compressors
- Battery-powered systems
- HVAC
- OEM assemblies
- Process equipment
- Telecommunications cabinets

Medical:
- Infant incubators
- Microenvironments
- Sleep apnea equipment

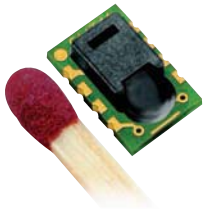
Mfg. Part No.	Description	Stock No.	Price Each 1-9
HIH-5030-001	Covered integrate circuit humidity sensor, SMD, 1000 units on tape & reel	11R0670	7.30
HIH-5030-001S	Covered, filter integrate circuit humidity sensor, SMD, 1000 units on tape & reel	11R0671	130.44
HIH-5031-001	Sample pack: covered integrate circuit humidity sensor, SMD, five units on tape	11R0672	10.25
HIH-5031-001S	Sample pack; covered, filter integrate circuit humidity sensor, SMD five units on tape	11R0673	157.99

(148724)

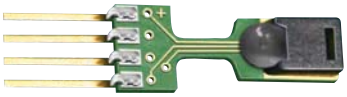
SHT SERIES HUMIDITY AND TEMPERATURE SENSORS

RoHS Compliant Available

SENSIRION THE SENSOR COMPANY



SHT11



SHT71

- Measurement range: 0-100% RH
- Response time: 8 sec.
- Temperature range: -40°C to +123.8°C

Single chip relative humidity and temperature sensor is fully calibrated and offers excellent long-term stability with ultra-low power consumption. The digital CMOSens technology integrates two sensors and readout circuitry on one single chip. The **EK-H2 Evaluation Kit** offers a "plug and play" solution for test and evaluation. Kit contains a set of two **mfg. part no. SHT11**, two **mfg. part no. SHT15**, two **mfg. part no. SHT75** sensors, the ASD11 microprocessor board (with LCD), a serial interface cable, a sensor interface cable and a power supply.

Mfg. Part No.	Humidity Accuracy (%RH)	Temperature Accuracy (°C)	Package	Stock No.	Price Each 1-9
SHT11	± 3	± 0.4 @ 25°C	4-LCC SMD	69C4848	25.19
SHT15	± 2	± 0.3 @ 25°C	4-LCC SMD	18M2986	30.24
SHT71	± 3	± 0.4 @ 25°C	4-SIP	18M2987	30.24
SHT75	± 1.8	± 0.3 @ 25°C	4-SIP	18M2988	35.18

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each
EK-H2	Evaluation Kit	18M2031	505.53
SF1	Filter Cap for Types **SHT11** and **SHT15** Sensors	09J2305	4.42

(79350)

OPTICAL LIQUID LEVEL SENSORS

Just Added

DURAKOOL INC.

CE

Fig. 1

Fig. 2

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Specifications:
- Supply current: 15mA
- Response time min: 50µs
- Repeatability: ±1mm
- Housing material: Polysulphone
- Output function: Digital - High in air

Features:
- Compact size
- High reliability
- Wide range of commercial and industrial applications

Mfg. Part No.	Fig.	Hysteresis (mm)	Max. Pressure	Output Current (mA)	Supply Voltage (VDC)	Stock No.	Price Each Each
D102101	1	2	...	40	12	59P3471	102.77
D105100	2	2	...	40	12	59P3472	102.77
D200D3SH	3	1	7 bar	10	12	59P3473	57.56
D500D3	4	1	7 bar	10	12	59P3474	57.56
D600D3SH	5	1	7 bar	15	12	59P3475	57.56
D615HDH24-003	6	1	7 bar	500	28	59P3476	179.09

(146376)

OPTICAL LEVEL SENSORS FOR LIQUIDS

CE

RoHS Compliant Available

CARLO GAVAZZI

- Ideal for dectection of acids and bases
- Transistor or SCR output
- LED indication
- Housing material: Polysulphone

Infrared probe for liquid level detection based on refraction principle. Resistant to most acids and bases. LED indication for sensor on. Works well with: oil, wine, waste water, hydraulic fluid. Not recommended for use in environments with high ambient light (i.e., flourescent light or sunlight), or for use with any material which may coat or adhere to the tip of the sensor. **E** or **EP suffix**: 10-40VDC, 200mA, transistor output; **110TB suffix**: 115VAC, 100mA, SCR output. Thread: ⅜" ISO 228. 6' cable. Operating temperature: Max. +176°F. CE compliant.

➤ CONTINUED ➤

OPTICAL LEVEL SENSORS FOR LIQUIDS (CONT.)

Mfg. Part No.	Output Type	Stock No.	Price Each
VP01E	NPN, N.C.	05M4438	118.00
VP02E	NPN, N.O.	96F1243	169.92
VP02EP	PNP, N.O.	96F1244	118.00
VP02-110TB	SCR, N.O.	96F1242	137.00

(3500)

LIQUID LEVEL SENSORS — VERTICAL CABLE MOUNT

RoHS Compliant Available

cynergy3 components

- For use in non-turbulant water
- Hermetically sealed
- Direct power switching
- 100m depth capability
- Material: High density polyethylene

Lead length: 5m. Max. working pressure: 10 bar. Switching voltage max: 250VAC; 110VDC. Switching power max: 750VA (AC); 180W (DC). Switching current max. (inductive): 4A (AC); 1A (DC). Standard cable: 5m PVC sheathed 3 core. U cable for fuel oils: polyurethane sheathed 3 core cable. UL recognized, VDE approved, CENELEC approved.

Mfg. Part No.	Max. Temp. (°C)	Contact Form	Stock No.	Price Each 1-4	5-14	15-24
MS10A	55	SPST-NO	89C5049	30.68	29.30	28.38
MS10B	55	SPST-NC	89C5056	28.60	27.31	26.45
MS10C	55	SPDT-CO	89C5060	26.42	25.24	24.44

(94476)

LIQUID LEVEL SENSORS — VERTICAL CABLE MOUNT SUBMERSIBLE FLOATS

RoHS Compliant Available

cynergy3 components

FFMSC Series

MS Series

- Unaffected by suspended solids, humidity and condensation
- 100m depth capability
- Self-cleaning switching element

- Hermetically sealed
- Direct power switching
- Material: High density polyethylene

TURBULENT

Switches are fitted with additional internal weight that brings the center of gravity and rotation close to the cable entry. Switching power max: 750VA (AC); 180W (DC). Switching current max. resistive: 10A. Switching voltage max: 110VDC; 250VAC. Switching current max. inductive: 4A (AC); 1A (DC). Body material: high density polyethylene. Standard cable: 5m PVC sheathed 3 core. U cable for fuel oils: polyurethane sheathed 3 core cable. Temperature range: 0°C to 55°C; 32°F to 131°F. Max. working pressure: 10bars.

Mfg. Part No.	Max. Temp. (°C)	Contact Form	Stock No.	Price Each 1-4	5-14	15-24
FFSMC10A	55	SPST-NO	89C5039	79.78	76.19	73.80
FFSMC10B	55	SPST-NC	89C5044	79.78	76.19	73.80
FFSMC10C	55	SPDT-CO	89C5046	76.32	72.89	70.60

➤ CONTINUED ➤

SENSORS – LIQUID LEVEL

LIQUID LEVEL SENSORS — VERTICAL CABLE MOUNT SUBMERSIBLE FLOATS (CONT.)

NON-TURBULENT

Lead length: 5m. Max. working pressure: 10 bar. Switching voltage max: 250VAC; 110VDC. Switching power max: 750VA (AC); 180W (DC). Switching current max. (inductive): 4A (AC); 1A (DC). Standard cable: 5m PVC sheathed 3 core. U cable for fuel oils: polyurethane sheathed 3 core cable. UL recognized, VDE approved, CENELEC approved.

Mfg. Part No.	Max. Temp. (°C)	Contact Form	Stock No.	Price Each 1-4	5-14	15-24
● MS10A	55	SPST-NO	89C5049	30.68	29.30	28.38
● MS10B	55	SPST-NC	89C5056	28.60	27.31	26.45
● MS10C	55	SPDT-CO	89C5060	26.42	25.24	24.44

(94471)

LIQUID LEVEL SENSORS — HORIZONTAL MOUNT

RoHS Compliant Available

Just Added

cynergy3 components

Fig. 1

Fig. 2

- Compact internal fitting
- Reliable reed switch contacts
- Available in nylon, polypropylene or PPS
- Many variants are UL recognized, components file no. E171218

RS40 series compact horizontally mounted switches require access to inside of the tank. Manufactured in a variety of materials with nitrite gaskets to suit most commonly used liquids. SPST-NO contacts. Switch action may be reversed by mounting the device with the orientation arrow pointing downwards, instead of the normal upwards direction. Maximum pressure: 5 bar. Float SG: 0.7. Minimum fluid SG: 0.85. Cable length: 1.0m. Cable size: 16/0.2 20AWG. Switching power max: 25VA. Switching current max: 0.6A. Switching voltage: 240VAC, 120VDC.

Mfg. Part No.	Body Mat'l.	Must Close (mm)	Must Open (mm)	Max. Temp. (°C)	Stock No.	Price Each 1-4
RSF43Y100RF	Nylon	7	20	75	92F4697	14.52
RSF48Y100RF	Polypropylene	8	20	100	91F5742	15.37
● RSF46Y100RF	PPS*	9	24	120	89C7871	15.64
100 WATTS SENSORS						
● RSF43H100RF	Nylon	7	20	75	06R1518	17.19
● RSF46H050TG	PPS*	9	24	120	06R1519	22.76
● RSF46H100RF	PPS*	9	24	120	06R1520	20.68
● RSF48H100RF	Polypropylene	8	20	100	06R1521	18.20

25 WATTS SENSORS

*Polyphenylene Sulphide

(94468)

LIQUID LEVEL SENSORS — VERTICAL MOUNT

RoHS Compliant Available

cynergy3 components

Just Added

- Compact design, miniature single switch
- User configurable SPST-NO or SPST-NC operation
- Reliable reed switch contacts
- WRAS approval
- Many variants are UL recognized, components file number E171218

Mounting is in the top or bottom of the tank from the inside. Switch action may be reversed by removing the float, inverting it and then refitting it to the stem. PPS type gives good chemical absorption resistance, withstands continuous exposure to boiling water. Switching power max: 25VA. Switching voltage max: 240VAC; 120VAC. Switching current max. 0.6A.

M12 THREAD 25 WATTS

Mfg. Part No.	Body Mat'l.	Must Close (mm)	Must Open (mm)	Max. Temp. (°C)	Stock No.	Price Each 1-4
● RSF53Y100RC	Nylon	11.5	22.5	75	31B4771	15.96
● RSF56Y100RC	PPS*	9.5	20.5	120	89C7875	17.14
● RSF58Y100RC	Polypropylene	15	26	100	31B4773	15.24
⅛″ NPT TAPERED THREAD 25 WATTS						
● RSF53Y100R1/8	Nylon	11.5	22.5	75	45M5560	15.87
● RSF56Y100R1/8	PPS*	9.5	20.5	120	72C5815	16.84
● RSF58Y100R1/8	Polypropylene	15	26	100	45M5561	16.92

➤ CONTINUED ➤

LIQUID LEVEL SENSORS — VERTICAL MOUNT (CONT.)

M12 THREAD 100 WATTS

Mfg. Part No.	Body Mat'l.	Must Close (mm)	Must Open (mm)	Max. Temp. (°C)	Stock No.	Price Each 1-4
● RSF53H100RC	Nylon	11.5	22.5	75	06R1522	18.34
● RSF56H100RC	PPS*	9.5	20.5	120	06R1526	21.89
● RSF58H100RC	Polypropylene	11.5	26	100	06R1528	19.44
● RSF56H050TB	PPS*	9.5	20.5	120	06R1524	24.08
● RSF56H100RB	PPS*	9.5	20.5	120	06R1525	21.89
⅛″ NPT 100 WATTS						
● RSF53H100R1/8	Nylon	11.5	22.5	75	06R1523	18.34
● RSF56H100R1/8	PPS*	9.5	20.5	120	06R1527	21.89
● RSF58H100R1/8	Polypropylene	15	26	100	06R1529	19.44

*Polyphenylene Sulphide

(94477)

LIQUID LEVEL SENSORS

Just Added

RoHS Compliant Available

cynergy3 components

Fig. 1

Fig. 2

- Maximum insertion depth: 450mm
- Insertion depth can be increased by using extension tubes (306mm long including connection adapter)
- 3 extension tubes can be used to achieve a maximum insertion depth of 1350mm

The extension tube is fitted by initially removing the cable gland from the float switch and screwing the extension tube to the float switch. The cable gland is then reassembled into the end of the extension tube. The float switch is mounted at the desired level using the clamp supplied. Float material: polypropylene. Stem material: polyphenylene sulphide. Tube material: PVC class 7. Cable length: 1.5m. Switching power max: 25VA. Switching current max: 0.6A. Switching voltage: 240VAC, 120VAC. **Mfg. part no. RSF64BEXS** with SPST-NC contacts also available; *go online or call.*

VARIABLE INSERTION DEPTH SENSORS

Mfg. Part No.	Fig.	Contact Form	Max. Temp. (°C)	Min. Fluid SG	Stock No.	Price Each 1-4	5-14	15-24
● RSF64EXS	1	SPST-NO	75	0.65	45M5562	49.49	47.19	45.66

SINGLE FLOAT SENSORS

Mfg. Part No.	Fig.	Upper Switch Level (mm)	Lower Switch Level (mm)	Total Length (mm)	Stock No.	Price Each 1-4	5-14	15-24
● RSF66A25B75	2	30	75	102	89C7882	40.20	38.34	37.09
● RSF66A25B100	2	30	100	127	39C0110	40.20	38.34	37.09
● RSF66A25B125	2	30	125	152	89C7879	40.20	38.34	37.09
● RSF66A25B150	2	30	150	177	89C7880	40.20	38.34	37.09
● RSF66A25B175	2	30	175	202	89C7881	40.20	38.34	37.09
DUAL FLOAT SENSORS								
● RSF66A50A100*	2	50	100	134	97J7500	44.86	42.78	41.39
● RSF66B50B100+	2	50	100	127	73J8183	44.86	42.78	41.39
● RSF66A50A150*	2	50	150	184	96H5716	44.86	42.78	41.39
● RSF66B50B150+	2	50	150	177	97J7501	44.86	42.78	41.39

ACCESSORY

Mfg. Part No.	Description	Stock No.	Price Each 1-4	5-14	15-24
● RSF64EXT	306mm Extension Tube	92F4699	11.35	10.83	10.48

* For emptying. + For filling.

(94478)

Huge Expanded Selection of Semiconductors

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

(148843)

LIQUID LEVEL SENSORS — HORIZONTAL MOUNT

RoHS Compliant Available

cynergy3 components

Just Added

- Quick installation
- Ideal for tanks with inaccessible tops or bottoms
- Many UL recognized components, file number E171218

RS70 series is designed for external fitting, achieving liquid tightness with high grade compression seal and **RS80 series** is designed for external mounting, achieving a seal with a ½″ NPT taper thread. Avoids need for access to inside of chamber. Ideally suited to uses where space or fitting time are prime considerations. Manufactured in a variety of materials with nitrite gaskets to suit most commonly used liquids. SPST-NO contacts. Switch action may be reversed by mounting the device with the orientation arrow pointing downwards, instead of the normal upwards direction. Minimum fluid SG: 0.85. Cable length: 1.0m. Cable size: 16/0.2 20AWG. Switching power max: 25VA. Switching current max: 0.6A. Switching voltage: 240VAC, 120VDC.

Mfg. Part No.	Body Mat'l.	Must Close (mm)	Must Open (mm)	Max. Temp. (°C)	Stock No.	Price Each 1-4	5-14	15-24
COMPRESSION SEAL 25 WATTS								
● RSF73Y100RN	Nylon	7	20	75	99B1523	15.17	14.47	14.00
● RSF78Y100RN	Polypropylene	8	20	100	99B1525	14.44	13.77	13.33
● RSF76Y100RN	PPS*	9	24	120	99B1528	16.46	15.69	15.18
COMPRESSION SEAL 100 WATTS								
● RSF73H100RN	Nylon	7	20	75	06R1530	17.97	17.14	16.58
● RSF76H050TV	PPS*	9	24	120	06R1531	23.81	22.70	21.97
● RSF76H100RN	PPS*	9	24	120	06R1532	21.65	20.65	19.98
1/2″ NPT TAPER THREAD SEAL								
● RSF83Y100R	Nylon	7	20	75	31B4778	13.20	12.58	12.18
RSF88Y100R	Polypropylene	8	20	100	92F4695	13.97	13.32	12.89
● RSF86Y100R	PPS*	9	24	120	91B1442	16.73	15.95	15.43

*Polyphenylene Sulphide
(94469)

LIQUID LEVEL SENSORS — HORIZONTAL MOUNT

RoHS Compliant Available

cynergy3 components

Just Added

- Quick installation
- Ideal for tanks with inaccessible tops or bottoms
- Many variants are UL recognized, components file number E171218
- Compact external mount with ½″ taper thread

RS80 series is designed for external mounting, achieving a seal with a ½″ NPT taper thread. Avoids need for access to the inside of the chamber and is ideally suited to applications where space or fitting time are prime considerations. Manufactured in a variety of materials with nitrite gaskets to suit most commonly used liquids. SPST-NO contacts. Switch action may be reversed by mounting the device with the orientation arrow pointing downwards, instead of the normal upwards direction. Minimum fluid SG: 0.85. Cable length: 1.0m. Cable size: 16/0.2 20AWG. Switching power max: 25VA. Switching current max: 0.6A. Switching voltage: 240VAC, 120VDC.

Mfg. Part No.	Body Mat'l.	Must Close (mm)	Must Open (mm)	Max. Temp. (°C)	Stock No.	Price Each 1-4
25 WATTS						
● RSF83Y100R	Nylon	7	20	75	31B4778	13.20
RSF88Y100R	Polypropylene	8	20	100	92F4695	13.97
● RSF86Y100R	PPS*	9	24	120	91B1442	16.73
100 WATTS						
● RSF83H100R	Nylon	7	20	75	06R1534	15.62
● RSF86H100R	PPS*	9	24	120	06R1536	19.81
● RSF86H050T	PPS*	9	24	120	06R1535	21.77
● RSF88H100R	Polypropylene	8	20	100	06R1537	16.55

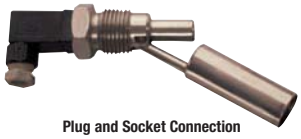
*Polyphenylene Sulphide
(94470)

LIQUID LEVEL SENSORS — HORIZONTAL MOUNT

RoHS Compliant Available

cynergy3 components

50cm XLPE Wires



Plug and Socket Connection

- Compact external fitting with ½″ npt taper thread
- Stainless steel
- Temperature range to 120°C

- User configurable SPST-NO or SPST-NC action by rotating switch 180°

➤ CONTINUED ➤

LIQUID LEVEL SENSORS — HORIZONTAL MOUNT (CONT.)

SSF212 series horizontally mounted switches mount externally in the side of the tank with a ½″ NPT (fits ½″) BSP thread. Manufactured in 304 grade stainless steel for those liquids in environments that require the use of stainless steel and will work in liquids of SG 0.8 min. Switch action may be reversed by mounting the device with the orientation arrow pointing downwards, instead of the normal upwards direction. Float and stem material: 304 grade. Maximum pressure: 5 bar. Float SG: 0.7. Cable length - standard: 500mm. Cable size: 17/0.10 - 22 AWG. Cable conductor material: tinned copper. Cable temperature rating: 125°C. Switching power max: 50VA. Switching current max: 0.5A. Switching voltage: 300VAC, 300VDC.

Mfg. Part No.	Max. Temp. (°C)	Min. Fluid SG	Leadouts	Stock No.	Price Each 1-4	5-14	15-24
● SSF212X050	120	0.8	50cm XLPE Wires	97J7616	72.54	69.18	66.93
● SSF212XP	120	0.8	Plug and Socket Connection	97J7615	81.83	78.04	75.51

(94459)

LIQUID LEVEL SENSORS — VERTICAL MOUNT

RoHS Compliant Available

cynergy3 components

- Miniature internal fit
- 316 grade stainless steel
- Temperature range to 120°C
- User configurable SPST-NO or SPST-NC action
- High temperature internal fitting
- Temperature range to 200°C
- Will work in liquids of SG 0.65 min.

SF22 series is a compact vertically mounted device designed to achieve reliable switching. Mounting is in the top or bottom of the tank from the inside. Switch action may be reversed by removing the float, inverting it and then refitting it to the stem. Mounting thread: ⅛″ BSP. Maximum pressure: 10 bar. Float SG: 0.7. Cable length - standard: 350mm. Cable size: 17/0.10 - 22 AWG. Cable conductor material: tinned copper. Cable temperature rating: 125°C. Tightening torque for fixing nut: 2.0kg/cm. Switching power max: 50VA. Switching current max: 0.5A. Switching voltage: 300VAC, 300VDC. Breakdown voltage min: 600VDC. **SSF26 series** is a vertically mounted device designed to achieve reliable switching at higher temperatures. Mounting is in the top or bottom of the tank from the inside. Switch action may be reversed by removing the float, inverting it and then refitting it to the stem. Typical application is in deep frying oil tanks. Mounting thread ⅜″ BSP. Maximum pressure: 10 bar. Float SG: 0.55. Cable length - standard: 350mm. Cable size: 17/0.10 - 22 AWG. Cable conductor material: tinned copper. Cable temperature rating: 200°C. Tightening torque for fixing nut: 2.0kg/cm. Switching power max: 50VA. Switching current max: 0.5A. Switching voltage: 300VAC, 300VDC. Breakdown voltage min: 600VDC.

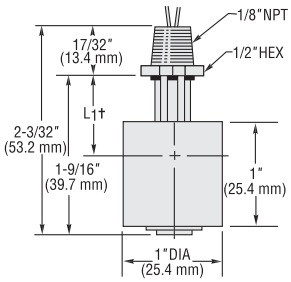
Mfg. Part No.	Max. Temp. (°C)	Min. Fluid SG	Leadouts	Mounting Thread	Stock No.	Price Each 1-4	5-14
● SSF22X035	120	0.8	35cm XLPE Wires	1/8″ BSP	97J7618	72.08	68.84
● SSF26X035	200	0.65	35cm XLPE Wires	3/8″ BSP	97J7620	138.82	132.58

(94462)

LS-3 SERIES PLASTIC LIQUID LEVEL SWITCHES

RoHS Compliant Available

Gems Sensors & Controls
Our Experience • Your Solution



- SPST, 20VA, 120-240VAC

Polysulfone float for water based liquids with limited use in oils and chemicals. Polypropylene float (hollow) features a low specific gravity float offering broad chemical compatibility. Mounting type: ⅛″ NPT. UL recognized, CSA certified, CE compliant.

Mfg. Part No.	Material: Stem and Mounting	Material: Float	Min. Liq. Sp. Gr.	Pressure** PSI/Bar Max.	Stock No.	Price Each
● 42295	Polysulfone	Polysulfone	0.75	50/3	92C8773	30.00
● 142505	Polypropylene	Polypropylene (Hollow)	0.60		92C8697	30.00
● 116826		Polypropylene (Solid)	0.90	150/10	92C8681	30.00

**Maximum Pressure @ 70°F (30°C)
(72568)

SENSORS – LIQUID LEVEL

LS-7 SERIES PLASTIC SIDE MOUNT LIQUID LEVEL SWITCHES

RoHS Compliant Available

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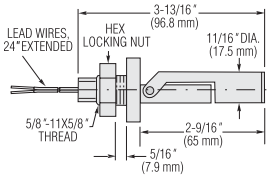
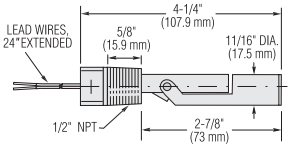
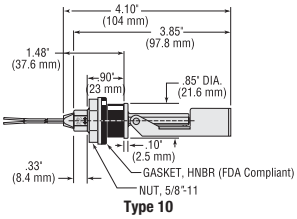


Type 3



Type 5

Type 7



Type 10

- Switch Type SPST, Rated 130VAC, 20VA
- Operating Pressure: 100 psi @ 70°F (Except Mounting Type 10, 50 psi @ 70°F)
- Ideal for High Volume Use in Small Tanks and Vessels

Mfg. Part No.	Mounting Type	Materials: Stem and Mounting	Materials: Float	Min. Liq. Sp. Gr.	Operating Temperature	Stock No.	Price Each 1-9
165570	3	Nylon (13% Glass)		0.65	-40°F to +250°F	92C8718	36.80
164520		Polypropylene (20% Glass)		0.55	-40°F to +225°F	92C8716	36.80
131100	5	Polypropylene (20% Glass)		0.55	-40°F to +225°F	92C8695	35.65
140620		Nylon (13% Glass)		0.65	-40°F to +250°F	92C8696	35.65
● 201 2A		Versaplast®		0.80	-40°F to +300°F	92C8735	36.80
160450	7	Polypropylene		0.55	-40°F to +225°F	92C8714	35.65
160460		Nylon		0.65	-40°F to +250°F	92C8715	35.65
165800	10	Polypropylene (20% Glass)		0.55	-40°F to +225°F	92C8719	37.95
165900		Nylon (13% Glass)		0.65	-40°F to +250°F	02H2894	38.12

(72563)

LS-1700 SERIES ALLOY LIQUID LEVEL SWITCHES

RoHS Compliant Available

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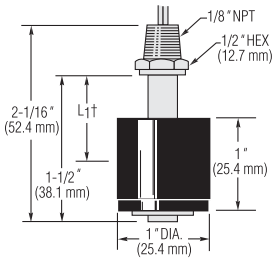
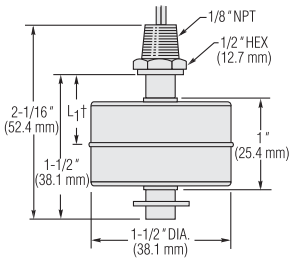
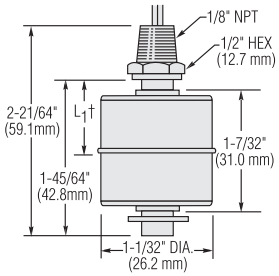


01701 and 01702



01750 and 79990



01755

- Switch: SPST, 20VA
- UL Recognized, CSA Certified, CE Compliant

Ideal for shallow tanks or restricted spaces. **LS-1700 series** offers broad chemical compatibility for general purpose use. Ideal for oils and water. The **LS-1750** and **LS-1755 series** are rugged construction suitable for most corrosive liquids and for high temperatures and pressures.

➤ CONTINUED ➤

LS-1700 SERIES ALLOY LIQUID LEVEL SWITCHES (CONT.)

Mfg. Part No.	Material: Stem and Mounting	Material: Float	Material: Other Wetted	Min. Liq. Sp. Gr.	Operating Temperature	Stock No.	Price Each 1-9
● 01701	Brass	Buna N	316 SS, Epoxy	0.45	Water: to 180°F Oil: -40°F to +230°F	92C8672	41.07
● 01702	316 SS					92C8673	68.82
● 01750	316 SS	316 SS	316 SS	0.70	-40°F to +300°F	92C8674	78.81
● 01755				0.90	-40°F to +300°F	92C8675	78.81

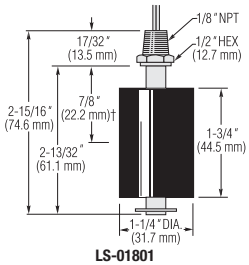
(72565)

LS-1800 AND LS-1900 SERIES ALLOY LIQUID LEVEL SWITCHES

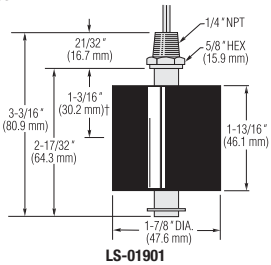
RoHS Compliant Available

Gems Sensors & Controls — Our Experience • Your Solution

LS-01807



LS-01801



LS-01901

- Buna N Float
- Pressure, psi, Max.: 150
- Operating Temperature: Water to 180°F, Oil -40°F to +230°F
- Electrical Termination: No. 18AWG, 24"L., Polymetric Lead Wires
- UL Recognized, Except Where Noted Below

LS-1800 and **LS-1900 series** switches offer excellent stability for general use in oils and waters. Along with their large float displacement, these switches withstand rough service and are suitable for high viscosity liquids.

LS-1800 SERIES

Mfg. Part No.	Material: Stem and Mounting	Material: Float	Material: Other Wetted	Min. Liq. Sp. Gr.	Switch SPST	Stock No.	Price Each 1-9
● 01801	Brass	Buna N	316 SS, Hysol	0.75	20VA	92C8676	44.52
● 35651					100VA**	92C8770	56.18
● 01807	316 SS				20VA	92C8677	72.08

LS-1900 SERIES

● 01907	316 SS	Buna N	316 SS	0.55	20VA	92C8679	77.38
● 35682		Buna N	316 SS	0.55	100VA**	92C8772	86.92

** 100VA switches are not UL recognized

(72566)

LS-1950 SERIES ALLOY LIQUID LEVEL SWITCHES

RoHS Compliant Available

Gems Sensors & Controls — Our Experience • Your Solution

- Stem and Mounting Material: 316 Stainless Steel
- Minimum Liquid Sp. Gr.: 0.80
- Pressure, Maximum: 750 psi
- 2 1/16" diameter (52.4mm)
- ¼" NPT port

For high performance applications, these models provide high temperature and pressure capabilities. Construction materials comply with FDA food contact regulations. Exceptionally accurate for higher temperatures and in pressurized or corrosive liquids. For oils, water and chemicals. UL recognized, CSA certified, CE compliant.

Mfg. Part No.	Operating Temperature	Switch	Stock No.	Price Each 1-9
● 01950	-40°F to +300°F	SPST, 20VA	92C8680	84.75
● 26717	-40°F to +300°F	SPST, 100VA**	92C8756	92.66
● 79999	-40°F to +480°F	SPST, 20VA	92C8795	131.08

**100VA switches are not UL recognized or CSA certified

(72567)

LS2050/52100 SERIES ALLOY SIDE MOUNT LIQUID LEVEL SWITCHES

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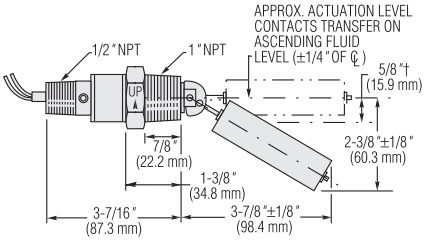
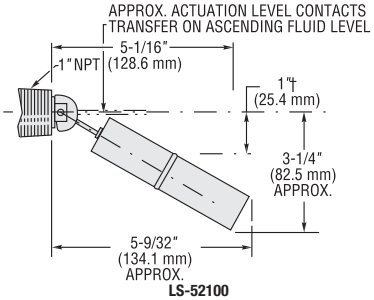


LS-2050

These units solve the problem of point level sensing in tanks with inaccessible tops or bottoms or at intermediate locations in larger tanks. Operation is positive and dependable. The float pivots with changing liquid level, displacing a shuttle which magnetically actuates a hermetically sealed switch within the unit. Installation is through the tank side at the detection point.



LS-52100

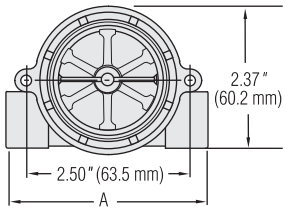
LS-2050 SERIES

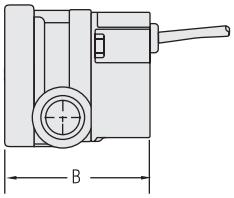
Mfg. Part No.	Material: Stem and Mounting	Material: Float	Min. Liq. Sp. Gr.	Switch	Stock No.	Price Each 1-9
30288	Brass	Buna N	0.80	SPDT, 20VA	92C8766	197.16
LS-52100 SERIES						
52100	316 SS	304 SS	0.85	SPDT, 20VA	92C8779	276.66

(72569)

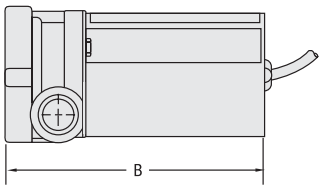
RFS TYPE FLOW SET POINT SWITCHES

Gems Sensors & Controls
Our Experience • Your Solution





VDC Versions



VAC Versions

- Combines Visual Confirmation of Flow with Dynamic, Electronic Switch Operation
- Adjustable Switch Point Calibration: A Local LED Signals When Set Point Is Reached
- Operating Temperature: Polypropylene - 20 - +180°F; Brass - 20 - +212°F

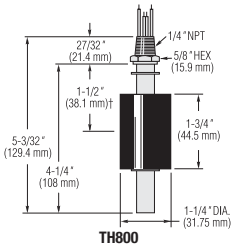
Mfg. Part No.	Body Material	Port Size NPT	Flow Range GPM	Dimensions (Inches) A	Dimensions (Inches) B	Stock No.	Price Each 1-9
155425	Polypropylene	0.25″	0.1 to 5.0	3.06	2.38	92C8702	177.48
155876				3.06	4.50	92C8706	200.94
155485		0.50″	1.5 to 20.0	3.06	2.38	92C8705	177.48
156266	Brass	0.25″	0.1 to 5.0	3.01	4.50	92C8711	260.10
156268		0.50″	1.5 to 20.0	3.01	2.32	92C8712	236.64
156269				3.01	4.50	92C8713	260.10
180395		0.75″	5.0 to 30.0	3.94	2.95	92C8738	236.64
180396				3.94	4.76	92C8739	260.10
181689		1.00″	8.0 to 60.0	3.94	4.76	92C8742	260.10

(72571)

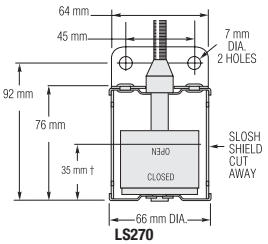
TH800 AND LS-270 SERIES SPECIALTY LEVEL SWITCHES

RoHS Compliant Available

Gems Sensors & Controls
Our Experience • Your Solution



TH800



LS270

LS270

- Maximum Pressure: 150 psi
- UL Recognized, CSA Certified

TH800 series temperature level switch is a level monitoring and temperature switch in a single unit. It is intermediate in size and has a single-setting temperature sensor at the bottom of its stem. **LS-270 series** bracket mounting slosh shield is small, lightweight and extremely stable in nonstatic, highly contaminated liquids. Slosh shielding minimizes effects of turbulence and helps prevent interference by foreign material. Bracket-mounted to any convenient surface.

TH800 SERIES — SPST - 20VA, N.O.

Mfg. Part No.	Material: Stem and Mounting	Material: Float	Min. Liq. Sp. Gr.	Temperature Logic	Stock No.	Price Each 1-9
● 57143	Brass	Buna N	0.75	N.C., Open on +150°F	92C8780	84.80

LS-270 SERIES

Mfg. Part No.	Material: Stem and Mounting	Material: Float	Min. Liq. Sp. Gr.	Switch Level SPST	Stock No.	Price Each 1-9
● 43765	304 SS	Buna N	0.55	20VA, N.O.	92C8775	127.20
● 43760				20VA, N.C.	92C8774	127.20

(72570)

LLE SERIES LIQUID LEVEL SENSORS

RoHS Compliant Available

Honeywell
Sensing and Control

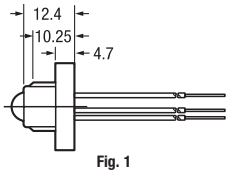


Fig. 1

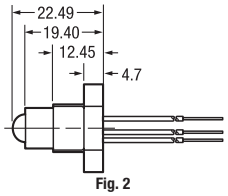


Fig. 2

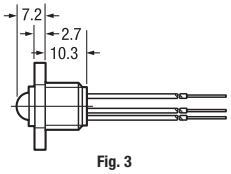


Fig. 3

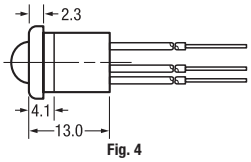


Fig. 4

Features:
- Accurate Repeatable Switching Point
- Microprocessor Compatible
- Reverse Polarity, Over Voltage, Short Circuit and Transient Protection

Specifications:
- Termination: 250mm Flying Leads
- Operating Temperature: -25°C to 80°C (standard); -40°C to 125°C (high temperature)
- Supply Voltage (V_{CC}): +5VDC to +12VDC ±5%
- Supply Current (mA): 15mA Nominal (standard temperature) 5mA Nominal (high temperature)

Liquid level sensors incorporate a phototransistor trigger which provides a digital output that denotes the presence or absence of liquid. LED and phototransistor are housed within a plastic dome at the head of the device. When no liquid is present, light from the LED is internally reflected from the dome to the phototransistor. When liquid covers the dome, the

➤ CONTINUED ➤

SENSORS – LIQUID LEVEL • SENSORS – MOTION • SENSORS – MAGNETIC

LLE SERIES LIQUID LEVEL SENSORS (CONT.)

effective refractive index at the dome-liquid boundary changes, allowing some light from the LED to escape. Therefore, the amount of light received by the phototransistor is reduced and the output switches, indicating the presence of liquid, making this method of liquid level sensing very fast, and almost instantaneous for water.

STANDARD TEMPERATURE

Mfg. Part No.	Fig.	Description	Stock No.	Price Each 1-24	Price Each 25-49
● LLE101000	1	Screw-In M12 Thread (Type 1)	31H9782	34.41	31.42
● LLE102000	2	Screw-In M12 Thread (Type 2)	19M9540	37.22	34.97
● LLE103000	3	Screw-In M12 Thread (Type 3)	10M8430	28.04	26.35
● LLE105000	4	Push-In (Type 5)	05M0500	37.22	34.97

HIGH TEMPERATURE

Mfg. Part No.	Fig.	Description	Stock No.	Price Each 1-24	Price Each 25-49
● LLE101101	1	Screw-In M12 Thread (Type 1)	65K8989	44.48	40.42
● LLE102101	2	Screw-In M12 Thread (Type 2)	37K6789	60.72	55.18
● LLE103101	3	Screw-In M12 Thread (Type 3)	65K8990	40.99	38.52
● LLE105100	4	Push-In (Type 5)	65K8991	38.31	36.00

(74823)

MP MOTION SENSOR (PASSIVE INFRARED TYPE) NAPION

RoHS Compliant Available

Panasonic

Panasonic Electric Works Corporation of America

Just Added

Standard Detection

Slight Motion

Spot Detection

10m Destection

Features:
- One of the smallest with a built-in amplifier
- Dual lens color are available
- Both digital output and analog output
- Detect even slight motion of a person
- Noise withstanding capability

Applications:
- Home appliances
- Amusement machine market
- Equipment in service market
- Lighting market

Mfg. Part No.	Detection Type	Sensor Output	Sensing Range	Detection Angle	Stock No.	Price Each 1-24
● AMN21111	Standard Detction	Analog	0-5m	100°	11N1047	34.55
● AMN31111	Standard Detction	Digital	0-5m	100°	11N1055	22.70
● AMN41121*	Standard Detction	Digital	0-5m	100°	11N1063	35.24
● AMN32111	Slight Motion	Digital	0-2m	91°	11N1057	22.70
● AMN33111	Spot Detection	Digital	0-5m	38°	11N1059	22.70
● AMN34111	10m Detection	Digital	0-10m	110°	11N1061	24.21

* Low current consumption

(148754)

HMC100x AND 102x SERIES LOW FIELD LINEAR MAGNETIC SENSORS

RoHS Compliant Available

Honeywell

HMC1022

HMC1021D

HMC1001

HMC1021Z

- Small, low cost, high sensitivity and high reliability, solution for low field magnetic sensing
- Solid state devices reduce board assembly costs
- HMC102x family used for automotive and handheld compassing
- HMC100x family for vertical axis sensing and altitude reference

HMC1002

1-AXIS

Mfg. Part No.	Field Range (gauss)	Resolution (μgauss)	Sensitvity (mV/V)	Package	Stock No.	Price Each 1-4
● HMC1001-RC	±2	27	3	8-SIP	50M1776	20.76
HMC1021D	±6	85	1	8-DIP	30K6321	257.77
● HMC1021S	±6	85	1	8-SIP	91B5181	6.06

2-AXIS

● HMC1002-RC	±2	27	3	20-SOIC	14M8111	24.22
● HMC1022	±6	85	1	16-SOIC	91F4715	12.11

(90091)

HMC104X/HMC105X SERIES ULTRA SMALL 1-, 2-, AND 3-AXIS MAGNETIC SENSORS

RoHS Compliant Available

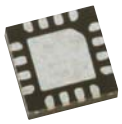
Honeywell

Just Added

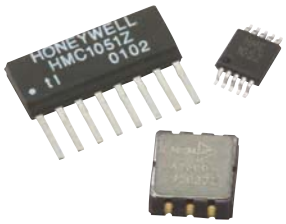
HMC1041Z

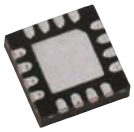
HMC1051Z

HMC1052


HMC1052L

HMC1053


HMC1055


HMC1042L

Features:
- Surface mount packages: Compact, reliable solution for low field magnetic sensing
- 4-element wheatstone bridge converts magnetic fields to differential output voltages
- Low voltages operations

Specifications:
- HMC1055 combines HMC1051Z 1-axis and HMC1052 2-axis MEMSIC MX3334UL accelerometer in a single kit

Z-AXIS

Mfg. Part No.	Field Range (gauss)	Resolution (mgauss)	Sensitivity (mV/V)	Package	Stock No.	Price Each 1-4
● HMC1041Z	±6	120	1	8-LPCC	28K2340	7.26
1-AXIS						
HMC1051Z-RC	±6	120	1	8-SIP	50M1778	29.04
HMC1051ZL	±6	120	1	8-LPCC	01J3095	29.04
2-AXIS						
● HMC1052L	±6	120	1	8-LCC	73H4227	29.04
● HMC1042L	±6	120	1	16-LPCC	84K2730	29.04
3-AXIS						
HMC1053	±6	120	1	16-LCC	26H2816	96.80
● HMC1043	±6	120	1	16-LPCC	08P3877	60.50

(91175)

3-AXIS MAGNETOMETERS

Honeywell

Features:
- Measure both magnetic field intensity and direction
- Small size and high sensitivity
- Ideal for compassing and navigation, security systems and lab instrumentation

Specifications:
- HMR2300 development kit includes one magnetometer module in aluminum enclosure, cabling with power supply, Windows demonstration software for remote PC, and users guide

HMC2003

HMR2300

Mfg. Part No.	Field Range (gauss)	Output	Resolution	Package	Stock No.	Price Each 1-4
HMC2003	±2	Analog	40	20-DIP	16F5425	268.60
HMR2300 DEMO KIT	±2	RS232	67	...	34C2812	888.75
HMR2300-D21-232	±2	RS232	67	...	16F5423	908.50
HMR2300-D21-485	±2	RS232	67	...	16F5424	908.50

(91176)

New products added weekly

See the newest products, technologies and suppliers on our website.

(148886)

HMC SERIES DIGITAL COMPASS SOLUTIONS

RoHS Compliant Available

Honeywell

Features:
- HMC6052 combines magneto-resistive sensor plus amplifiers and analog support features
- 2 channels of amplified sensor signals
- Set switch functions allow easy-to-implement solutions
- HMC6352 uses 12C serial interface supply heading data to host processors
- Ideal for consumer electronics applications
- Contains firmware heading computation and calibration

HMC6052

Mfg. Part No.	Description	Size	Field Range (gauss)	Package	Stock No.	Price Each 1-4
● HMC6052	2-Axis, PCB Module	3.5x3.5x0.8mm	±2	14-LCC	30K6322	32.40
HMC6352	2-Axis, PCB Module	6.5x6.5x1.4mm	±2	24-LCC	83H6761	25.92

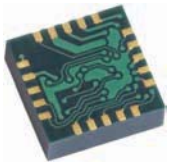
(70806)

3-AXIS DIGITAL COMPASS IC HMC SERIES

Just Added

Honeywell

Features:
- 3-Axis Magnetoresistive Sensors and ASIC in a single package
- Low Cost
- 4.0 x 4.0 x 1.3mm low height profile LCC surface mount package
- Low voltage operations (2.4 to 3.3V)
- built-in strap circuits
- I2C digital interface
- Lead free package construction
- Wide magnetic field range (+/-6 Oe)



Specifications:
- Supply Voltage: AVDD referenced to AGND 2.4, 3.0, 3.3 Volts, DVDD referenced to DGND 1.62 - 1.98 Volts
- Magnetic Sensor: Field range, Full scale (FS) - total applied field -4 to+4
- ASIC Digital: Measurement period, Output Rate = 50Hz (10Hz typ) 10 msec max.
- Mux/Amplifier Section: Mag Dynamic range, 3-bit gain control, +/-0.7 to +/-4 gauss
- Bandwidth: -3dB 10 kHz
- Operating Ambient Temperature: -30 to 85°C

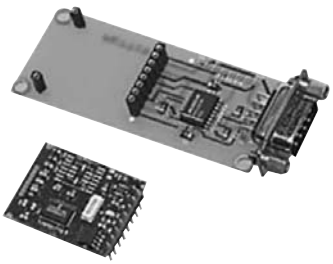
Benefits:
- Easy to assemble
- Popular two-wire serial data interface for consumer electronics

Mfg. Part No.	Description	Stock No.	Price Each 1-4
● HMC5843	Surface mount 3-axis magnetic sensor designed for low field magnetic sensing with a digital interface	06R2312	72.60
● HMC5843-EVAL	HMC5843 part on a pin out board for ease of prototyping	11R0675	181.50
● HMC5843-DEMO	Demonstration board for the 3-axis Compass IC provides the HMC5843 plusserial bus conversion circuits to convert the IC data to USB interfacing to personal computers. Includes a 6-ft USB cable.	11R0674	459.80

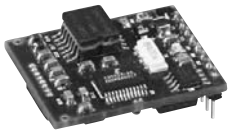
(148725)

HMR SERIES DIGITAL COMPASS SOLUTIONS

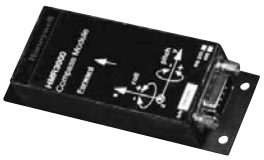
Honeywell



HMR3300



HMR3200



HMR3000

➤ CONTINUED ➤

HMR SERIES DIGITAL COMPASS SOLUTIONS (CONT.)

HMR3400

HMR3500

Specifications:
- HMR Development kits includes HMR digital compass, circuit card with RS232 output, cabling with power supply, Windows demonstration software for remote PC, and users guide
- HMR3500 Development kits includes DB9 data and power cable, RS232 interface, Windows CompassHost software, and manual with software protocol message descriptions

Mfg. Part No.	Description	Size	Tilt Range	Stock No.	Price Each 1-4
HMR3200	2-Axis, PCB Module, UART Ouptut	1″x1.45″x0.4″	…	34C2815	379.20
HMR3200 DEMO KIT	2-Axis, PCB Module, with Development Kit	1″x1.45″x0.4″	…	34C2816	434.50
HMR3000	3-Axis, Tilt Compensated, RS232 Output	1.5″x4.2″x0.88″	±40°	34C2813	821.60
HMR3000D00485	3-Axis, Tilt Compensated, RS485 Output	1.5″x4.2″x0.88″	±40°	49H6711	829.50
HMR3000 DEMO KIT	3-Axis, Tilt Compensated, RS232 Output with Development Kit	1.5″x4.2″x0.88″	±40°	34C2814	916.40
HMR3300	3-Axis, Tilt Compensated, PCB Module only	1″x1.45″x0.4″	±60°	34C2817	450.30
HMR3300-D00-232	3-Axis, Tilt Compensated, PCB Module and RS232 Motherboard	1″x1.45″x0.4″	±60°	92H7099	474.00
HMR3400	3-Axis, Tilt Compensated, PCB Module only	0.6″x1.5″	±60°	84K2741	410.80
HMR3500	3-Axis, Tilt Compensated, PCB Module only	2″x1.5″x0.5″	±80°	74K2363	900.60
HMR3300 DEMO KIT	3-Axis, Tilt Compensated, PCB Module with Development Kit	1″x1.45″x0.4″	±60°	34C2818	513.50
HMR3500 DEMO	3-Axis, Tilt Compensated, PCB Module with Development Kit	2″x1.5″x0.5″	±80°	84K2742	1042.80

(91177)

LIGHT SENSORS NAPICA SERIES

RoHS Compliant Available

Panasonic

Panasonic Electric Works Corporation of America

Just Added

Features:
- Cadium-free sensor with spectral response
- Built-in optical filter for spectral response similar to that of the human eye
- Photocurrent is proportional to illumination
- Uses environmentally friendly silicon chips
- Lead-free
- SMD or through hole package

SMD

Through Hole

Specifications:
- LCD devices
- Residential lighting
- Household appliances

Mfg. Part No.	Photo Current (µA)	Termination	Stock No.	Price Each Each
● AMS104Y	260	SMD	11R8530	…
● AMS302	260	Through Hole	11N1073	2.22

(148755)

SENSORS – PHOTOELECTRIC

WORLD-BEAM® QS18 UNIVERSAL COMPACT SENSORS

BANNER
more sensors, more solutions

Just Added

- Easily Fits (or Retrofits) Almost Any Mounting Situation
- Exceptional Optical Performance, Comparable to Larger "Mini-Style" or Barrel Sensors
- Bright LED Operating Status Indicators Are Visible from 360°
- Rugged Sealed Housing, Protected Circuitry
- Supply Voltage: 10 - 30VDC
- All Models Less than 1ms Output Response for Excellent Sensing Repeatability
- Temperature: -20°C to +70°C (except lasers: -10°C to +50°C)

Mfg. Part No. Suffix	Height (mm)	Width (mm)	Depth (mm)
D, E, R, FF, LV, LP	35.0	15.0	31.0
DB, EB, RB, W	35.0	15.0	21.1
FP	35.0	15.0	27.5
CV15, CV45	35.0	15.0	33.2
F	35.0	15.0	36.9

OPPOSED MODE EMITTER (E) AND RECEIVER (R) - INFRARED LED

Mfg. Part No.	Range	Cable	Output Type	Stock No.	Price Each 1-9
QS186E	20m (66′)	2m (6.5′) 2-Wire	N/A	02H6905	41.50
QS18VN6R	20m (66′)	2m (6.5′) 4-Wire	NPN	02H6897	62.25
QS18VP6R	20m (66′)	2m (6.5′) 4-Wire	PNP	02H6904	62.25
POLARIZED RETROREFLECTIVE MODE - VISIBLE RED LED					
QS18VN6LP	3.5m (12′)	2m (6.5′) 4-Wire	NPN	02H6896	70.98
QS18VP6LP	3.5m (12′)	2m (6.5′) 4-Wire	PNP	02H6903	70.98
DIFFUSE MODE - CLASS 1 LASER					
QS18VN6LD	300mm (12″)	2m (6.5′) 4-Wire	NPN	34K9447	114.66
QS18VP6LD	300mm (12″)	2m (6.5′) 4-Wire	PNP	34K9474	114.66
POLARIZED RETROREFLECTIVE MODE - CLASS 1 LASER					
QS18VN6LLP	0.1 to 10m (0.33 to 33′))	2m (6.5′) 4-Wire	NPN	78K9075	132.14
QS18VP6LLP	0.1 to 10m (0.33 to 33′))	2m (6.5′) 4-Wire	PNP	39K6104	132.14
CONVERGENT MODE - VISIBLE RED LED					
QS18VN6CV15	16mm (0.63″)	2m (6.5′) 4-Wire	NPN	02H6892	70.98
QS18VP6CV15	16mm (0.63″)	2m (6.5′) 4-Wire	PNP	02H6899	70.98
QS18VN6CV45	43mm (1.7″)	2m (6.5′) 4-Wire	NPN	02H6893	70.98
QS18VP6CV45	43mm (1.7″)	2m (6.5′) 4-Wire	PNP	02H6900	70.98
DIFFUSE MODE - INFRARED LED					
QS18VN6D	450mm (18″)	2m (6.5′) 4-Wire	NPN	02H6894	70.98
QS18VP6D	450mm (18″)	2m (6.5′) 4-Wire	PNP	02H6901	70.98
FIXED-FIELD MODE - VISIBLE RED LED					
QS18VN6FF50	50mm (2″)	2m (6.5′) 4-Wire	NPN	99H1088	79.72
QS18VN6FF100	100mm (4″)	2m (6.5′) 4-Wire	NPN	99H1082	79.72
QS18VP6FF50	50mm (2″)	2m (6.5′) 4-Wire	PNP	99H1107	79.72
QS18VP6FF100	100mm (4″)	2m (6.5′) 4-Wire	PNP	99H1101	79.72
PLASTIC FIBER-OPTIC MODE - VISIBLE RED LED					
QS18VN6FP	Varies	2m (6.5′) 4-Wire	NPN	02H6895	70.98
QS18VP6FP	Varies	2m (6.5′) 4-Wire	PNP	02H6902	69.16

MOUNTING BRACKETS

Mfg. Part No.	Description	Stock No.	Price Each 1-9
SMB18A	90°, Stainless Steel 2-Axis, 18mm	02H7579	3.18
SMB18SF	18mm Plastic, Swivel Mount Bracket	02H7580	7.40

(73570)

WORLD-BEAM® QS18 AC/DC UNIVERSAL VOLTAGE SENSORS

BANNER
more sensors, more solutions

Just Added

- Easily fits or retrofits almost any mounting configuration
- Exceptional optical performance in a compact right-angle housing
- 20 to 140V ac/dc or 20 to 270V ac/dc operation
- Bright LED operating status indicators, visible from 360°
- Rugged, sealed housing, protected circuitry, 1200 PSI washdown

OPPOSED — 940nm INFRARED

Mfg. Part No.	Range	Output Type	Feature	Stock No.	Price Each Each
QS18WE	20m	...	...	11R0613	62.78
QS18ANWR	20m	N-MOSFET	L.O.	11R0596	81.93
QS18RNWR	20m	N-MOSFET	D.O.	11R0608	81.93
QS18APWR	20m	P-MOSFET	L.O.	11R0600	81.93
QS18RPWR	20m	P-MOSFET	D.O.	11R0612	81.93
POLARIZED RETROREFLECTIVE — 660nm VISIBLE RED LED					
QS18ANWLP	3.5m	N-MOSFET	L.O.	11R0595	90.44
QS18RNWLP	3.5m	N-MOSFET	D.O.	11R0607	90.44
QS18APWLP	3.5m	P-MOSFET	L.O.	11R0599	90.44
QS18RPWLP	3.5m	P-MOSFET	D.O.	11R0611	90.44
DIFFUSE-MODE — 624nm VISIBLE RED LED					
QS18ANWDL	450mm	N-MOSFET	L.O.	11R0593	90.44
QS18APWDL	450mm	P-MOSFET	D.O.	11R0597	90.44
QS18RNWDL	450mm	N-MOSFET	L.O.	11R0605	90.44
QS18RPWDL	450mm	P-MOSFET	D.O.	11R0609	90.44
DIFFUSE-MODE — 850nm INFRARED					
QS18ANWDXL	1m	N-MOSFET	L.O.	11R0594	90.44
QS18APWDXL	1m	P-MOSFET	D.O.	11R0598	90.44
QS18RNWDXL	1m	N-MOSFET	L.O.	11R0606	90.44
QS18RPWDXL	1m	P-MOSFET	D.O.	11R0610	90.44

(148732)

WORLD-BEAM® QS18 EXPERT SERIES SENSORS

Just Added

BANNER
more sensors, more solutions

- Expert-style Static and Dynamic TEACH options, plus Window, Light, and Dark SET, via push button or remote input
- Smart power-control algorithm to maximize performance in low-contrast applications
- Dark-Operate/Light-Operate select; selectable 30 ms output OFF-delay
- Less than 1 millisecond output response for excellent sensing repeatability
- Tough ABS housing is rated IEC IP67; NEMA 6
- Bright LED operating status indicators are visible from 360°

POLARIZED RETROREFLECTIVE — 660nm VISIBLE RED LED

Mfg. Part No.	Range	Connection	Output Type	Stock No.	Price Each Each
QS18EN6LP	3.5m	4-wire 2 m (6.5') cable	NPN	21H5947	69.16
QS18EN6LPQ8	3.5m	4-pin Integral Euro-style QD	NPN	99H1068	69.16
QS18EP6LP	3.5m	4-wire 2 m (6.5') cable	PNP	21H5971	69.16
QS18EP6LPQ8	3.5m	4-pin Integral Euro-style QD	PNP	99H1074	69.16
DIFFUSE-MODE — 940nm INFRARED					
QS18EN6D	800mm	4-wire 2 m (6.5') cable	NPN	21H5939	69.16
QS18EN6DQ8	800mm	4-pin Integral Euro-style QD	NPN	99H1067	69.16
QS18EP6D	800mm	4-wire 2 m (6.5') cable	PNP	21H5963	69.16
QS18EP6DQ8	800mm	4-pin Integral Euro-style QD	PNP	99H1073	69.16
QS18EN6DV	600mm	4-wire 2 m (6.5') cable	NPN	11R0601	69.16
QS18EN6DVQ8	600mm	4-pin Integral Euro-style QD	NPN	11R0602	69.16
QS18EP6DV	600mm	4-wire 2 m (6.5') cable	PNP	11R0603	69.16
QS18EP6DVQ8	600mm	4-pin Integral Euro-style QD	PNP	11R0604	69.16

(148734)

WORLD-BEAM® QS18 SERIES ADJUSTABLE-FIELD SENSORS

Just Added

BANNER more sensors, more solutions

Features:
- High-performance, low-cost adjustable-field sensors
- Adjustable-field sensing based on optical triangulation for applications where a bright background must be ignored
- Excellent optical performance throughout 30 - 250mm sensing range
- Narrow effective beam provides small-object detection and precise position control
- Crosstalk rejection algorithm protects against optical disturbances from adjacent sensors
- Visible Red LED or laser sensing beam
- 10 to 30VDC operation
- Bright LED operating status indicators are visible from 360°
- Compact, rugged sealed housing, protected circuitry

ADJUSTABLE-FIELD MODE - CLASS 1 LASER

Mfg. Part No.	Range	Cable	Output	Stock No.	Price Each
QS18VN6LAF	1mm to cutoff point (adjustable between 30-100mm)	4-wire, 2m integral cable	NPN	34K9442	147.00
QS18VP6LAF		4-wire, 2m integral cable	PNP	34K9469	147.00
QS18VN6LAFQ5		4-pin Euro-style QD	NPN	34K9446	160.00
QS18VP6LAFQ5		4-pin Euro-style QD	PNP	34K9473	160.00
ADJUSTABLE-FIELD MODE - CLASS 2 LASER					
QS18VN6LAF250	20mm to cutoff point (adjustable between 50-250mm)	4-wire, 2m integral cable	NPN	51M6128	190.00
QS18VP6LAF250		4-wire, 2m integral cable	PNP	51M6151	190.00
QS18VN6LAF250Q		4-pin Euro-style QD	NPN	51M6130	202.00
QS18VP6LAF250Q		4-pin Euro-style QD	PNP	51M6153	202.00
ADJUSTABLE-FIELD MODE - VISIBLE RED LED					
QS18VN6AF100	1mm (0.04") to Cutoff Point (adjustable between 20-100mm)	4-wire, 2m integral cable	NPN	02H6891	90.64
QS18VN6AF100Q5		4-pin Euro-style QD	NPN	21H5981	104.84
QS18VP6AF100		4-wire, 2m integral cable	PNP	02H6898	90.64
QS18VP6AF100Q5		4-pin Euro-style QD	PNP	21H6040	104.84

QUICK-DISCONNECT CABLES

Mfg. Part No.	Description	Length (m)	Stock No.	Price Each 1-9
MQDC-406	4-pin Euro-style Straight, Threaded Connecter	2	02H6726	19.03
MQDC-415		5	02H6728	22.20
MQDC-430		9	02H6730	35.94

BRACKETS

Mfg. Part No.	Description	Stock No.	Price Each 1-9
SMBQS18AF	Wrap-around protection mounting bracket, 14-gauge 304 stainless steel	02H7577	4.37

(88874)

WORLD-BEAM® Q20 COMPACT RECTANGULAR SENSORS

BANNER more sensors, more solutions

Just Added

- Compact sealed, over-molded plastic housing
- 4-pin Euro-style 150 mm (6") pigtail QD connection
- Standard 3 mm threaded mounting holes on 25.4 mm (1") spacing
- Advanced ASIC design for excellent noise immunity and cross-talk avoidance
- 10 to 30V dc operation with complementary solid-state outputs (1 normally open, 1 normally closed)

OPPOSED — 624nm VISIBLE RED LED

Mfg. Part No.	Range	Output Type	Stock No.	Price Each
Q20NRLQ5	15m	NPN	11R0618	67.04
POLARIZED RETROREFLECTIVE — 660nm VISIBLE RED LED				
Q20NLPQ5	4m	NPN	11R0617	83.00
LONG-RANGE DIFFUSE-MODE — 850nm INFRARED				
Q20NDXLQ5	1500mm	NPN	11R0616	83.00

(148729)

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(148881)

WORLD-BEAM® QS30 UNIVERSAL SENSORS

BANNER more sensors, more solutions

Just Added

- Advanced one-piece photoelectric sensors with exceptional long-range optical performance
- 10 to 30V dc operation with bipolar discrete outputs, NPN and PNP
- Selectable Light or Dark Operate, depending on hookup
- Tough ABS/polycarbonate blend housing is rated to IEC IP67; NEMA 6
- Two sensor status LED indicators visible from 360°
- Output indicator on back of sensor housing (except emitters) visible from long distance
- Polarized retroreflective and diffuse models have potentiometer on back of housing for easy sensor range adjustment

OPPOSED — 875nm INFRARED

Mfg. Part No.	Connection	Range	Stock No.	Price Each Each
QS30E	5-wire 2 m (6.5') cable	60m	34K9502	53.20
QS30EQ	5-pin integral Euro-style QD	60m	34K9504	53.20
QS30R	5-wire 2 m (6.5') cable	60m	34K9533	73.42
QS30RQ	5-pin integral Euro-style QD	60m	34K9535	73.42
POLARIZED RETROREFLECTIVE — 630nm VISIBLE RED LED				
QS30LP	5-wire 2 m (6.5') cable	8m	34K9525	81.93
QS30LPQ	5-pin integral Euro-style QD	8m	34K9527	81.93
DIFFUSE-MODE — 940nm INFRARED				
QS30D	5-wire 2 m (6.5') cable	1m	34K9498	81.93
QS30DQ	5-pin integral Euro-style QD	1m	34K9500	81.93
FIXED-FIELD — 680nm VISIBLE RED LED				
QS30FF200	5-wire 2 m (6.5') cable	200mm	34K9509	88.32
QS30FF200Q	5-pin integral Euro-style QD	200mm	34K9511	88.32
QS30FF400	5-wire 2 m (6.5') cable	400mm	34K9512	88.32
QS30FF400Q	5-pin integral Euro-style QD	400mm	34K9514	88.32
QS30FF600	5-wire 2 m (6.5') cable	600mm	34K9515	88.32
QS30FF600Q	5-pin integral Euro-style QD	600mm	24K3810	88.32

(148735)

WORLD-BEAM® QS30 EXPERT UNIVERSAL SENSORS

BANNER more sensors, more solutions

Just Added

- Tough ABS housing is rated IEC IP67; NEMA 6 (non-polarized retroreflective is rated for 1200 psi washdown per NEMA PW12)
- Easy-to-read operating status indicators
- Bipolar discrete outputs, PNP and NPN
- Selectable 30 millisecond OFF-delay

QS30LL models offer push-button SET options: Maximum Excess Gain plus Manual Adjust. **QS30ELV models** provide reliable detection of clear, translucent, or opaque targets (including mirror-like surfaces), as well as automatic compensation algorithm for dust or contamination on the sensor or reflector and for ambient temperature changes. **QS30EDV models** have automatic Expert-style Static and Dynamic TEACH options, multiple Single-Point SET options, plus manual adjustment for fine tuning. Smart power-control algorithm maximizes performance in low-contrast applications. Selectable normal mode (1.8 ms sensing response) and high-speed mode (300-microsecond response. Easy push-button Dark Operate/Light Operate select, output OFF-delay, and operating speed setup. **QS30LD models** include Expert-style TEACH options including Static, Dynamic, and Single-Point programming plus manual adjustment for fine-tuning. **QS30AF models** contain cutoff point push-button SET options: Background Suppression SET, Object Detection SET and Dynamic SET, plus manual adjustments, push-button N.O./N.C. and output OFF-delay setup.

POLARIZED REFLECTIVE — 650nm VISIBLE RED CLASS 1 LASER

Mfg. Part No.	Connection	Range Max.	Stock No.	Price Each
QS30LLP	2 m (6.5') 5-wire Cable	18m	99H1136	174.50
QS30LLPQ	Integral 5-pin Euro-style QD	18m	97H7676	174.50
NON-POLARIZED RETROREFLECTIVE — 660nm VISIBLE RED LED				
QS30ELVC	2 m (6.5') 5-wire Cable	2m	11R0614	190.46
QS30ELVCQ	Integral 5-pin Euro-style QD	2m	11R0615	190.46
DIFFUSE-MODE — 660nm VISIBLE RED LED				
QS30EDV	2 m (6.5') 5-wire Cable	1400mm	51M6178	145.77
QS30EDVQ	Integral 5-pin Euro-style QD	1400mm	51M6180	145.77
DIFFUSE-MODE — VISIBLE RED CLASS 2 LASER				
QS30LDL	2 m (6.5') 5-wire Cable	800mm	21H6122	202.16
QS30LDLQ	Integral 5-pin Euro-style QD	800mm	21H6124	202.16

➤ CONTINUED ➤

SENSORS – PHOTOELECTRIC

WORLD-BEAM® QS30 EXPERT UNIVERSAL SENSORS (CONT.)

ADJUSTABLE-FIELD — 660nm VISIBLE RED LED

Mfg. Part No.	Connection	Range Max.	Stock No.	Price Each 1-9
QS30AF	2 m (6.5') 5-wire Cable	300mm	99H1130	145.77
QS30AFQ	Integral 5-pin Euro-style QD	300mm	99H1132	145.77

(148737)

WORLD-BEAM Q12 SERIES MINIATURE PHOTOELECTRIC SENSORS

BANNER more sensors, more solutions

- Bright, visible red (640nm) light source
- 10 to 30VDC operation
- Solid-state, bipolar outputs: One current sourcing (PNP) and one current sinking (NPN)
- Light operate (LO) or dark operate (DO) depending on model
- Compact 8mm (0.31") housing mounts almost anywhere; ideal for extremely confined areas
- Crosstalk-avoidance circuitry for multiple-sensor applications
- LED status indicator for power ON, output overload, signal received and marginal signal
- Rated IP67

Q12

Mfg. Part No.	Sensing Mode	Range	Output	Stock No.	Price Each 1-9
Q12AB6FF15	Fixed-Field 640nm Visible Red	15mm	Bipolar LO	30K6998	80.81
Q12RB6FF15			Bipolar DO	30K7003	80.81
Q12AB6FF30		30mm	Bipolar LO	30K6999	80.81
Q12RB6FF30			Bipolar DO	30K7004	80.81
Q12AB6FF50		50mm	Bipolar LO	30K6394	80.81
Q12RB6FF50			Bipolar DO	30K7005	80.81
Q12AB6LP	Polarized Retro 640nm Visible Red	1m	Bipolar LO	30K7000	99.38
Q12RB6LP			Bipolar DO	30K7006	99.38
Q12AB6LV	Retro 640nm Visible Red	1.5m	Bipolar LO	30K7001	91.73
Q12RB6LV			Bipolar DO	30K7007	91.73
Q12AB6R	Opposed 640nm Visible Red	2m	Bipolar LO	30K7002	58.97
Q12RB6R			Bipolar DO	30K7008	58.97
Q126E			None	30K7009	45.87

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MINI-BEAM® DC PHOTOELECTRIC SENSORS

BANNER more sensors, more solutions

- Rear-Panel Light/Dark Operate Switch
- DC Models Include Patented Alignment Indicating Device Signal Strength Monitoring Indicator
- Integral Quick-Disconnect (QD) Fitting or attached cable
- Sensing Mode Options: Opposed, Diffuse, Retroreflective, Convergent, and Glass and Fiber Optic
- Temperature Rating: -20°C to +70°C (-4°F to +158°F)
- Bipolar NPN/PNP Output
- Supply Voltage: 10-30VDC
- UL Listed, CSA Certified, CE Compliant

Mfg. Part No.	Mode	Sensing Range	Termination	Stock No.	Price Each 1-9
SM312CV2	Convergent	43mm	2m Cable	02H7606	107.10
SM312CV2QD	Convergent	43mm	4-Pin Euro QD	02H7607	107.10
SM312D	Diffuse	380mm	2m Cable	02H7608	91.04
SM312DQD	Diffuse	380mm	4-Pin Euro QD	02H7609	91.04
SM312F	Glass Fiber	Varies	2m Cable	02H7610	91.04
SM312FQD	Glass Fiber	Varies	4-Pin Euro QD	02H7613	91.04
SM31E	Opposed Emitter	3m	2m Cable	02H7602	53.55
SM31EQD	Opposed Emitter	3m	4-Pin Euro QD	02H7603	53.55
SM31R	Opposed Receiver	3m	2m Cable	02H7604	80.33
SM31RQD	Opposed Receiver	3m	4-Pin Euro QD	02H7605	80.33
SM31EL	Opposed Emitter	30m	2m Cable	21H9680	72.80
SM31ELQD	Opposed Emitter	30m	4-Pin Euro QD	21H9686	72.80
SM31RL	Opposed Receiver	30m	2m Cable	21H9721	109.20
SM31RLQD	Opposed Receiver	30m	4-Pin Euro QD	21H9731	109.20
SM312FP	Plastic Fiber	Varies	2m Cable	02H7611	99.61
SM312FPQD	Plastic Fiber	Varies	4-Pin Euro QD	02H7612	99.61
SM312LP	Polarized Retroreflective	3m	2m Cable	02H7614	99.61
SM312LPQD	Polarized Retroreflective	3m	4-Pin Euro QD	02H7615	99.61
SM312LV	Retroreflective	5m	2m Cable	02H7616	91.04
SM312LVQD	Retroreflective	5m	4-Pin Euro QD	02H7617	91.04

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MINI-BEAM® DC PHOTOELECTRIC SENSORS (CONT.)

MOUNTING BRACKETS

Mfg. Part No.	Description	Stock No.	Price Each 1-9
SMB18A	90°, Stainless Steel 2-Axis, 18mm	02H7579	3.18
SMB18SF	18mm Plastic, Swivel Mount Bracket	02H7580	7.40
SMB312S	90°, Stainless Steel Bracket, Side Mount	02H7583	4.23

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MINI-BEAM® AC PHOTOELECTRIC SENSORS

BANNER more sensors, more solutions

Features:
- Signal strength or output indicator
- Solid state outputs
- 2m integral cable or 3-pin Micro-style QD
- Mfg. part nos. with suffix "QD" requires a mating cable; *order separately on page 1845*
- For 9m cable add suffix "W/30" to the mfg. part no.

Specifications:
- Supply voltage: 24-240VAC
- Output configuration: SPST solid-state, 2-wire (light operate, dark operate selectable)
- Operating temperature: -20°C to +70°C

INTEGRAL CABLE

Mfg. Part No.	Mode	Range	LED	Stock No.	Price Each 1-9
SM2A312CV	Convergent	16 mm	Visible Red LED	21H9516	117.81
SM2A312D	Diffuse	380 mm	Infrared LED	21H9532	112.46
SM2A312F	Glass Fiber	Variable	Infrared LED	21H9540	112.46
SM2A312FP	Plastic Fiber	Variable	Visible Red LED	21H9542	117.81
SM2A312LV	Retro	5 m	Visible Red LED	21H9564	112.46
3-PIN MICRO-STYLE QUICK DISCONNECT CABLE					
SM2A312CVQD	Convergent	16 mm	Visible Red LED	21H9522	117.81
SM2A312DQD	Diffuse	380 mm	Infrared LED	21H9538	112.46
SM2A312FQD	Glass Fiber	Variable	Infrared LED	21H9550	112.46
SM2A312FPQD	Plastic Fiber	Variable	Visible Red LED	21H9546	117.81
SM2A312LVQD	Retro	5 m	Visible Red LED	21H9570	112.46

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MINI-BEAM® EXPERT™ SENSORS

Just Added

BANNER more sensors, more solutions

- TEACH-Mode Sensors in the Popular MINI-BEAM Package
- Easy Pushbutton Programming Automatically Adjusts Sensitivity to Optimal Setting
- 500 Microsecond Output Response
- Bipolar NPN (Sinking)/PNP (Sourcing) Outputs
- Supply Voltage: 10 - 30VDC
- Easy Output Programming Eliminates the Need for Light or Dark Operate Selection
- Separate TEACH Input Allows Remote Programming by an External Device Such as a Switch or a Process Controller
- Temperature: -20°C to +70°C (-4°F to +158°F)
- CE Compliant, Canadian/US Recognized

POLARIZED RETROREFLECTIVE MODE - VISIBLE RED LED

Mfg. Part No.	Range	Cable	Stock No.	Price Each 1-9
SME312LP	10mm - 3m	2m (6.5') 5-Wire	02H7592	101.56
SME312LPQD	10mm - 3m	5-Pin Euro-Style QD	02H7593	101.56
DIFFUSE MODE - INFRARED LED				
SME312D	380mm (15")	2m (6.5') 5-Wire	02H7586	92.82
SME312DQD	380mm (15")	5-Pin Euro-Style QD	02H7587	92.82
DIFFUSE MODE - VISIBLE RED LED				
SME312DV	110mm (43")	2m (6.5') 5-Wire	21H8936	101.56
SME312DVQD	110mm (43")	5-pin Euro-style QD	21H8939	101.56
CONVERGENT MODE - VISIBLE RED LED				
SME312CV2	43mm (1.7")	2m (6.5') 5-Wire	02H7584	109.20
SME312CV2QD	43mm (1.7")	5-Pin Euro-Style QD	02H7585	109.20
GLASS FIBER-OPTIC - VISIBLE RED LED				
SME312FV	Varies	2m (6.5') 5-Wire	02H7590	92.82
SME312FVQD	Varies	5-Pin Euro-Style QD	02H7591	92.82
PLASTIC FIBER-OPTIC - VISIBLE RED LED				
SME312FP	Varies	2m (6.5') 5-Wire	02H7588	101.56
SME312FPQD	Varies	5-Pin Euro-Style QD	02H7589	101.56

(73568)

MINI-BEAM® UNIVERSAL VOLTAGE SENSORS

more sensors, more solutions

- Universal Supply Voltage: 24 to 240VAC or 24 to 240VDC
- Easy-to-Install with Few Necessary Adjustments
- 3A SPDT Electromechanical Relay
- Temperature: -20°C to +55°C (-4°F to +131°F)

Exclusive (U.S. Patent No. 4356393) alignment indicating device system (AID™) lights a rear panel LED whenever sensing light is detected. Superimposed pulse rate indicates received light signal strength.

Mfg. Part No.	Description	Range	Cable	Stock No.	Price Each 1-9
SMU31E	Opposed Mode Emitter	3m (10′)	2m (6.5′) 2-Wire	02H7594	67.71
SMU31R	Opposed Mode Receiver	3m (10′)	2m (6.5′) 5-Wire	02H7595	98.28
SMU315D	Diffuse Mode	380 mm (15′)	2m (6.5′) 5-Wire	02H7597	114.66
SMU315LV	Non-Polarized Retroreflective Mode	5m (15′)	2m (6.5′) 5-Wire	02H7601	114.66
SMU315LP	Polarized Extended Range Retroreflective Mode	10mm - 3m (0.4″ - 10′)	2m (6.5′) 5-Wire	02H7600	120.12
SMU315CV2	Convergent Mode	43mm (1.7″)	2m (6.5′) 5-Wire	02H7596	125.58
SMU315F*	Glass Fiber-Optic	Varies	2m (6.5′) 5-Wire	02H7598	114.66
SMU315FP*	Plastic Fiber-Optic	Varies	2m (6.5′) 5-Wire	02H7599	120.12

(73569)

M12 — 12mm BARREL SENSORS

more sensors, more solutions

- Sensors housed in a compact 12 mm threaded metal barrel
- 4-pin integral Euro-style M12 connector
- Background suppression on fixed-field models; an excellent alternative to proximity sensors
- Two signal indicator LEDs for easy operating status monitoring from any direction
- 10 to 30V dc operation
- Complementary solid-state outputs (1 normally open, 1 normally closed)

OPPOSED - 660nm VISIBLE RED LED

Mfg. Part No.	Range	Output Type	Stock No.	Price Each
M12EQ8	5m	...	51M5718	48.95
M12NRQ8	5m	NPN	51M5753	71.29
M12PRQ8	5m	PNP	51M5788	71.29
POLARIZED RETROREFLECTIVE — 660nm VISIBLE RED LED				
M12NLPQ8	1.5m	NPN	51M5743	75.55
M12PLPQ8	1.5m	PNP	51M5778	75.55
DIFFUSE-MODE — 660nm VISIBLE RED LED				
M12NDQ8	400mm	NPN	51M5723	75.55
M12PDQ8	400mm	PNP	51M5758	75.55
FIXED-FIELD — 680nm VISIBLE RED LED				
M12NFF25Q8	25mm	NPN	51M5728	97.89
M12PFF25Q8	25mm	PNP	51M5763	97.89
M12NFF50Q8	50mm	NPN	51M5733	97.89
M12PFF50Q8	50mm	PNP	51M5768	97.89
M12NFF75Q8	75mm	NPN	51M5738	97.89
M12PFF75Q8	75mm	PNP	51M5773	97.89

(148728)

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

(148857)

S18 SERIES EZ-BEAM® SENSORS

more sensors, more solutions

- 18mm Thermoplastic Polyester-Threaded Barrel Sensor
- Advanced Self-Diagnostics with Separate Alarm Output
- Dual LED System Indicates Sensor Performance
- Solid-State Switch Output, Maximum Load 300mA
- -10°C to +50°C (+14°F to +122°F)
- CE Compliant, CSA certified, UL listed

OPPOSED MODE EMITTER (E) AND RECEIVER (R) - INFRARED LED

Mfg. Part No.	Range	Cable	Supply Voltage	Output Type	Stock No.	Price Each 1-9
S186E	20m (66′)	2m (6.5′)	10-30VDC	...	02H7663	30.24
S186EQ		4-Pin Euro QD			02H7664	30.24
S18SN6R		2m (6.5′)		NPN	02H7652	41.44
S18SN6RQ		4-Pin Euro QD			02H7653	41.44
S18SP6R		2m (6.5′)		PNP	02H7660	41.44
S18SP6RQ		4-Pin Euro QD			02H7661	41.44
S183E		2m (6.5′)	20-250VAC	...	02H7662	38.08
S18RW3R		2m (6.5′)		DO	02H7645	53.76
RETROREFLECTIVE MODE, POLARIZED - VISIBLE RED LED						
S18SN6LP	2m (79″)	2m (6.5′)	10-30VDC	NPN	02H7650	84.00
S18SN6LPQ		4-Pin Euro QD			02H7651	84.00
S18SP6LP		2m (6.5′)		PNP	02H7658	84.00
S18SP6LPQ		4-Pin Euro QD			02H7659	84.00
S18RW3LP		2m (6.5′)	20-250VAC	DO	02H7644	104.16
S18 DIFFUSE MODE - INFRARED LED						
S18SN6D	100mm (4″)	2m (6.5′)	10-30VDC	NPN	02H7646	45.92
S18SN6DQ		4-Pin Euro QD			02H7647	50.40
S18SP6D		2m (6.5′)		PNP	02H7654	45.92
S18SP6DQ		4-Pin Euro QD			02H7655	50.40
S18AW3D		2m (6.5′)	20-250VAC	LO	02H7642	62.72

S18 FIXED-FIELD MODE - INFRARED LED

Mfg. Part No.	Cutoff Point	Cable	Supply Voltage	Output Type	Stock No.	Price Each 1-9
S18SN6FF100	100mm (4″)	2m (6.5′)	10-30VDC	NPN	02H7648	95.20
S18SN6FF100Q		4-Pin Euro QD			02H7649	95.20
S18SP6FF100		2m (6.5′)		PNP	02H7656	95.20
S18SP6FF100Q		4-Pin Euro QD			02H7657	95.20
S18AW3FF100		2m (6.5′)	20-250VAC	LO	02H7643	117.60

MOUNTING BRACKETS

Mfg. Part No.	Description	Stock No.	Price Each 1-9
SMB18A	90° Stainless Steel 2-Axis, 18mm	02H7579	3.18
SMB18SF	18mm Plastic, Swivel Mount Bracket	02H7580	7.40

(73571)

T18 SERIES EZ-BEAM® SENSORS

more sensors, more solutions

- Patented Right-Angle Thermoplastic Polyester Housing with 18mm Threaded Lens
- Advanced Self-Diagnostics with Separate Alarm Output
- Dual LED System Indicates Sensor Performance
- Choose (Complementary) NPN or PNP Outputs (150mA Max. Each)
- Solid-State Switch Output, Maximum Load 300mA
- -40°C to +70°C (-40°F to +158°F)

UL listed, CSA certified, CE compliant.

OPPOSED MODE EMITTER (E) AND RECEIVER (R) - INFRARED LED

Mfg. Part No.	Range	Cable	Supply Voltage	Output Type	Stock No.	Price Each 1-9
T186E	20m (66′)	2m (6.5′)	10-30VDC	...	02H7704	38.22
T186EQ		4-Pin Euro QD			02H7705	38.22
T18SN6R		2m (6.5′)		NPN	02H7693	54.60
T18SN6RQ		4-Pin Euro QD			02H7694	54.60
T18SP6R		2m (6.5′)		PNP	02H7701	54.60
T18SP6RQ		4-Pin Euro QD			02H7702	54.60
T183E		2m (6.5′)	20-250VAC	...	02H7703	44.78
T18RW3R		2m (6.5′)		DO	02H7686	69.89

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SENSORS – PHOTOELECTRIC

T18 SERIES EZ-BEAM® SENSORS (CONT.)

RETROREFLECTIVE MODE, POLARIZED - VISIBLE RED LED*

Mfg. Part No.	Range	Cable	Supply Voltage	Output Type	Stock No.	Price Each 1-9
T18SN6LP	2m (79″)	2m (6.5′)	10-30VDC	NPN	02H7691	81.90
T18SN6LPQ		4-Pin Euro QD			02H7692	81.90
T18SP6LP		2m (6.5′)		PNP	02H7699	81.90
T18SP6LPQ		4-Pin Euro QD			02H7700	81.90
T18RW3LP		2m (6.5′)	20-250VAC	DO	02H7685	101.56

Use polarized models when shiny objects will be sensed

DIFFUSE MODE WITH GAIN CONTROL (DC) - INFRARED LED

T18SN6D	500mm (20″)	2m (6.5′)	10-30VDC	NPN	02H7687	64.43
T18SN6DQ		4-Pin Euro QD			02H7688	64.43
T18SP6D		2m (6.5′)		PNP	02H7695	64.43
T18SP6DQ		4-Pin Euro QD		PNP	02H7696	64.43
T18AW3D	300mm (12″)	2m (6.5′)	20-250VAC	LO	02H7683	77.54

FIXED-FIELD MODE - INFRARED LED

T18SN6FF100	100mm (4″)	2m (6.5′) 4-Pin Euro QD	10-30VDC	NPN	02H7689	92.82
T18SN6FF100Q		2m (6.5′) 4-Pin Euro QD			02H7690	92.82
T18SP6FF100		2m (6.5′) 4-Pin Euro QD		PNP	02H7697	92.82
T18SP6FF100Q		2m (6.5′) 4-Pin Euro QD			02H7698	92.82
T18AW3FF100		2m (6.5′)	20-250VAC	LO	02H7684	114.66

MOUNTING BRACKETS

Mfg. Part No.	Description	Stock No.	Price Each 1-9
SMB18A	90°, Stainless Steel 2-Axis, 18mm	02H7579	3.18
SMB18SF	18mm Plastic, Swivel Mount Bracket	02H7580	7.40

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Q45 SERIES SENSORS

BANNER® more sensors, more solutions

- Retroreflective Models Include Laser Versions for Very Long Range or Precise Sensing
- -40°C to +70°C (except universal voltage: -25°C to +55°C)

Internal light/dark operate switch and multi-turn sensitivity (gain) control accessible beneath hinged, o-ring sealed top cover. UL listed, CSA certified, CE compliant.

OPPOSED MODE EMITTER (E) AND RECEIVER (R)

Mfg. Part No.	Range	Cable	Supply Voltage	Output Type	Stock No.	Price Each 1-9
Q456E	60m (200′)	2-Wire 2m (6.5′)	10-30VDC	None	02H6934	65.52
Q456EQ5		4-Pin Euro QD			02H6935	65.52
Q45BB6R		4-Wire 2m (6.5′)		Bipolar NPN/PNP	02H6925	85.18
Q45BB6RQ5		4-Pin Euro QD			02H6926	85.18
Q453E		2-Wire 2m (6.5′)	Universal 12-250VDC or 24-250VAC	None	02H6933	69.89
Q45VR3R		5-Wire 2m (6.5′)		SPDT e/m Relay	02H6932	99.38

RETROREFLECTIVE MODE (POLARIZED)

Q45BB6LP	0.15-6m (6″-20′)	4-Wire 2m (6.5′)	10-30VDC	Bipolar NPN/PNP	02H6923	99.38
Q45BB6LPQ5		4-Wire Euro QD			02H6924	99.38
Q45VR3LP		5-Wire 2m (6.5′)	Universal 12-250VDC or 24-250VAC	SPDT e/m Relay	02H6931	112.48

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Q45 SERIES SENSORS (CONT.)

DIFFUSE MODE, LONG RANGE

Mfg. Part No.	Range	Cable	Supply Voltage	Output Type	Stock No.	Price Each 1-9
Q45BB6DL	1.8m (6′)	4-Wire 2m (6.5′)	10-30VDC	Bipolar NPN/PNP	02H6917	91.73
Q45BB6DLQ5		4-Pin Euro QD			02H6918	91.73
Q45VR3DL		5-Wire 2m (6.5′)	Universal 12-250VDC or 24-250VAC	SPDT e/m Relay	02H6928	105.93
Q45VR3DLQ	1.8m (6′)	5-Pin Mini-Style QD	Universal 12-250VDC or 24-250VAC	SPDT e/m Relay	21H6802	105.93

GLASS FIBER OPTIC (VISIBLE RED, 650 NM)

Q45BB6FV	Varies*	4-Wire 2m (6.5′)	10-30VDC	Bipolar NPN/PNP	02H6921	91.73
Q45BB6FVQ5		4-Pin Euro QD			02H6922	91.73
Q45VR3FV		5-Wire 2m (6.5′)	Universal 12-250VDC or 24-250VAC	SPDT e/m Relay	02H6930	112.48

PLASTIC FIBER OPTIC

Q45BB6FP	Varies*	4-Wire 2m (6.5′)	10-30VDC	Bipolar NPN/PNP	02H6919	100.47
Q45BB6FPQ5		4-Pin Euro QD			02H6920	100.47
Q45VR3FP		5-Wire 2m (6.5′)	Universal 12-250VDC or 24-250VAC	SPDT e/m Relay	02H6929	112.48

CONVERGENT MODE

Q45BB6CV4	100mm (4″)**	4-Wire 2m (6.5′)	10-30VDC	Bipolar NPN/PNP	02H6915	104.84
Q45BB6CV4Q5		4-Pin Euro QD			02H6916	104.84
Q45VR3CV4		5-Wire 2m (6.5′)	Universal 12-250VDC or 24-250VAC	SPDT e/m Relay	02H6927	116.85

*Range varies by sensing mode and fiber optics used.
** Spot Size at Focus: 1.5mm (0.06″)

MOUNTING BRACKETS

Mfg. Part No.	Description	Stock No.	Price Each 1-9
SMB30MM	90° Stainless Steel, 30mm	02H7581	5.29
SMB30SC	30mm Plastic, Swivel Mount	02H7582	7.40

QUICK-DISCONNECT CABLES

Mfg. Part No.	Description	Length (m)	Stock No.	Price Each 1-9	Price Each 10-24
MQDC-406	4-pin Straight Euro-style	2	02H6726	19.03	18.02
MQDC-415	4-pin Straight Euro-style	5	02H6728	22.20	21.03
MQDC-430	4-pin Straight Euro-style	9	02H6730	35.94	34.04
MBCC-506	5-pin Straight Mini-style	2	21H1183	36.18	…

(73573)

Q60 ADJUSTABLE-FIELD SENSORS

Just Added

BANNER® more sensors, more solutions

NEMA IP67

- Detects objects within a defined sensing field, while ignoring objects located beyond the sensing field cutoff
- Two-turn, logarithmic cutoff point adjustment for easy setting of cutoff point at long range
- Rotating pointer indicates relative cutoff point setting
- Easy push-button or remote setting of light/dark operate and output timing; continuous status indicators verify all settings at a glance
- Output ON and/or OFF delays adjustable from 8 milliseconds to 16 seconds
- ABS/polycarbonate blend housing is rated IEC IP67; NEMA 6

Q60BB6 models powered by 10 to 30V dc. **Q60VR3 models** powered by 12-250V dc or 24-250V ac, 50/60 Hz.

➤ CONTINUED ➤

Q60 ADJUSTABLE-FIELD SENSORS (CONT.)

665nm VISIBLE RED LED

Mfg. Part No.	Range	Connection	Output Type	Stock No.	Price Each Each
Q60BB6AFV1000Q	1000mm	5-pin Euro-style QD	NPN/PNP	21H6946	168.12
Q60VR3AFV1000Q1	1000mm	4-pin Micro-style QD	SPST-NO	21H6951	185.14
650nm VISIBLE RED CLASS 1 LASER					
Q60BB6LAF2000Q	2000mm	5-pin Euro-style QD	NPN/PNP	97H8688	331.97
650nm VISIBLE RED CLASS 2 LASER					
Q60VR3LAF2000Q1	2000mm	4-pin Micro-style QD	SPST-NO	99H1180	350.06

(148730)

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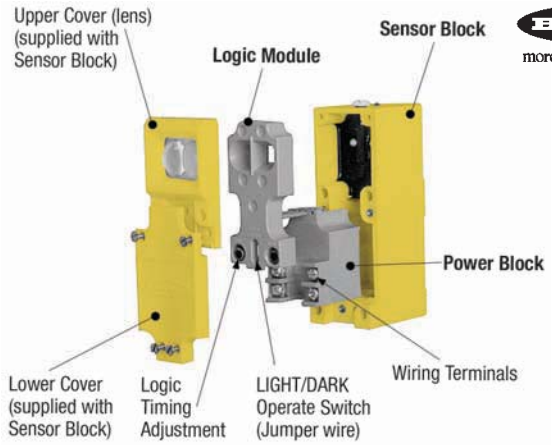
(148833)

MULTI-BEAM® SENSORS

Selection of Components For MULTI-BEAM® Sensors

- 1. Choose a sensor block for the required sensing mode
- 2. Choose a power block for the required sensor power (AC or DC) and interface
- 3. Choose a logic module (not required for opposed emitters)
- 4. Simply plug components together without interwiring to create a complete self-contained photoelectric sensor that is tailored to your exact needs

MULTI-BEAM® sensors are compact *modular* self-contained photoelectric switches. The *scanner block* contains the complete modulated photoelectric amplifier as well as the emitter and receiver optoelements. It also contains the sensing optics and the housing for the other two modules. The *power block* provides the interface between the scanner block and external circuit. It contains a power supply for the MULTI-BEAM® plus a switching device to interface with the circuit to be controlled. The *logic module* interconnects the power block and scanner block both electrically and mechanically. It provides the ability to program the output for either light- or dark-operate. The emitters of MULTIBEAM® emitter-receiver pairs do not require a logic module. Emitter scanner blocks are supplied with a blade-pin to interconnect the scanner block and power block. This modular design, with field power block and logic module, permits over 5,000 sensor configurations, resulting in exactly the right sensor for any photo-electric application. Three- and four-wire sensors permit either AC or DC operation and offer the fastest response times and the greatest ranges. The circuitry of all MULTI-BEAM® components is encapsulated within rugged, corrosion VALOX® housings, which meet or exceed NEMA 1, 2, 12, and 13 ratings. Scanner blocks include an Alignment Indicating Device (AID™) which lights a top-mounted LED when the sensor sees its own modulated light source and pulses the LED at a rate proportional to the received light signal.



BANNER® more sensors, more solutions

MULTI-BEAM® 3- AND 4-WIRE SCANNER BLOCKS

Mfg. Part No.	Description	Range	Response (ms)	Stock No.	Price Each 1-9	Price Each 10-24
SBE	Opposed Mode Emitter, high speed infared 940 nm	150-ft with SBR1 Receiver	1 on/off	21H7420	89.10	83.43
SBR1	Opposed Mode Receiver for use with SBE Emitter	150-ft with SBE Emitter	1 on/off	21H7448	121.00	113.30
SBEX	Opposed Mode Emitter, high power, long range infared 940 nm	700-ft with SBRX1 Receiver	10 on/off	21H7424	101.20	94.76
SBRX1	Opposed Mode Receiver for use with SBEX Emitter	700-ft with SBEX Emitter	10 on/off	21H7447	121.00	113.30
SBL1	Retroreflective Mode Scanner Block, high speed infrared 940 nm	1″ to 30-ft with BRT-3 reflector	1 on/off	21H7440	122.10	114.33
SBLV1	Retroreflective Mode Scanner Block, high speed visible red 650 nm	6″ to 30-ft with BRT-3 reflector	1 on/off	21H7438	122.10	114.33
SBD1	Diffused Mode Scanner Block, high speed infrared 940 nm	12″ using 90% reflectance white card	1 on/off	21H7418	122.10	114.33
SBDL1	Diffuse Mode Scanner Block, medium speed infrared 940 nm	24″ using 90% reflectance white card	1 on/off	21H7414	122.10	114.33
SBDX1	Diffused Mode Scanner Block, high power, long range infrared 880 nm	6-ft using 90% reflectance white card	10 on/off	21H7416	133.10	124.63
SBC1	Convergent Mode Scanner Block, infrared 940 nm	1.5″ focal point	1 on/off	21H7408	159.50	149.35
SBF1	Glass Fiber Optic Scanner Block, high speed infrared 940 nm	varies by type of fiber optic cables used	1 on/off	21H7433	155.10	145.23
SBFX1	Glass Fiber Optic Scanner Block, high power infrared 880 nm	varies by type of fiber optic cables used	10 on/off	21H7431	160.60	150.38

MULTI-BEAM® 3- AND 4-WIRE POWER BLOCKS

Mfg. Part No.	Output Type	Output Capacity	Supply Voltage	On-State V Saturation	Stock No.	Price Each 1-9	Price Each 10-24
PBA	Relay	250, 750ma Max.	105 to 130VAC	2.5VAC	21H4237	46.20	43.26
PBAT	Relay	222, 100ma Max.	105 to 130VAC	<3VAC	21H4242	46.20	43.26
PBA-1	...	...	105 to 130VAC	<3VAC	21H4238	38.50	36.05
PBP	SPST, PNP (Sourcing)	30, 250ma Max.	10 to 30VDC	1VDC	21H4425	39.60	37.08
PBT	SPST, NPN (Sinking)	30, 250ma Max.	10 to 30VDC	1VDC	21H4515	39.60	37.08
PBT-1	...	...	10 to 30VDC	<1VAC/DC	21H4516	34.10	31.93

MULTI-BEAM® 3-AND 4-WIRE LOGIC MODULES

Mfg. Part No.	Timing Function	Timing Range	Stock No.	Price Each 1-9	Price Each 10-24
LM1	On-Delay and Off-Delay	None to light operate only	21H0811	17.60	16.48
LM3	On-Delay and Off-Delay	None to output follows input	21H0817	29.70	27.81
LM5	On-Delay	1.5 sec. to 15 sec.	21H0832	69.30	64.89
LM5-14	On-Delay and Off-Delay	1.5 sec. to 15 sec.	21H0833	82.50	77.25
LM4-2	Retriggerable One Shot	0.01 sec. to 1 sec.	21H0827	69.30	64.89

(78055)

SENSORS – PHOTOELECTRIC

D10 EXPERT™ SERIES FIBER-OPTIC SENSORS

more sensors, more solutions

- 4-Mode Power and Speed Selection with Automatic Crosstalk Avoidance Circuitry
- Gate Input Wire Can Be Used to Selectively Inhibit Sensor Outputs from Switching
- Sleek, Ultra-Slim 10mm Housing Mounts to a Standard 35mm DIN Rail, or Use Mounting Bracket Included

Easy-to-set automatic Expert-style TEACH options including static, dynamic and single-point programming plus a manual adjustment for fine-tuning. 16-bit microcontroller and 12-bit analog-to-digital converter for high-performance, low-contrast sensing. Easy-to-read 4-digit display TEACH and signal strength readout, plus indicators for a continuous readout or operating status (user configurable).

DUAL DISCRETE OUTPUTS (VISIBLE RED 680 NM)

Mfg. Part No.	Cable	Supply Voltage	Output Type	Stock No.	Price Each 1-9
D10DNFP	2m (6.5′) Cable	12-24VDC	NPN (Sinking)	02H6487	178.64
D10DNFPQ	6-Pin Pico-Style QD	12-24VDC		02H6488	178.64
D10DPFP	2m (6.5′) Cable	12-24VDC	PNP (Sourcing)	02H6489	178.64
D10DPFPQ	6-Pin Pico-Style QD	12-24VDC		02H6490	178.64

ANALOG AND DISCRETE OUTPUTS (VISIBLE RED 680 NM)

Mfg. Part No.	Cable	Supply Voltage	Discrete Output	Analog Output	Stock No.	Price Each 1-9
D10IPFP	2m (6.5′) Cable	12-24VDC	PNP (Sourcing)	4-20mA	02H6493	223.03
D10IPFPQ	6-Pin Pico-Style QD	12-24VDC		4-20mA	02H6494	223.03
D10UNFP	2m (6.5′) Cable	15-24VDC	NPN (Sinking)	0-10V	02H6495	223.03
D10UNFPQ	6-Pin Pico-Style QD	15-24VDC		0-10V	02H6496	223.03

(73575)

PLASTIC AND GLASS FIBER-OPTIC ASSEMBLIES

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PLASTIC FIBER-OPTIC ASSEMBLIES

- PBT Versions Are Diffused Mode; PIT and PIL Are Opposed Mode
- Unterminated Control Ends Which Allow the User to Cut to the Required Length
- Available in Individual or Bifurcated Styles
- Limited to a Minimum Bend Radius of 1mm
- Fiber Core Size: 1mm
- For Use with the Following Series: D10, SM, SME, SMU, Q45 and QS18

Mfg. Part No.	Style	Construction	Stock No.	Price Each 1-9
PBT46U	Bifurcated Threaded	Cut to Length Cable, M6 Threaded End Tip	02H6806	38.22
PBT46UC	Bifurcated High-Flex Threaded	Coiled Cable, Cut to Length Cable, M6 Threaded End Tip	02H6807	49.14
PBT46UHF	High-Flex Bifurcated Threaded	Cut to Length Cable, M6 Threaded End Tip	02H6808	54.60
PIT46U	Individual Threaded	M4 and M2.5 Threaded End Tip	02H6810	42.59
PIT66U	Individual Threaded	M4 and M2.5 Threaded End Tip	21H5057	56.79
PIAT26U	Individual Threaded	M3 x 0.5 90° Angle Threaded Brass Tip	21H4821	66.62
PIT46UHF	High-Flex Individual Threaded	M4 and M2.5 Threaded End Tip	02H6811	61.16
PIL46U	Individual Lensed	Cut to Length Cable, 8mm Lens	02H6809	42.59
PIRS1X166UMPMAL	Individual Fiber Array	2 m, Unterminated Straight Cable	21H4985	114.66

GLASS FIBER OPTIC ASSEMBLIES

- Final Assembly Length: 36″
- Stainless Steel Sheathing Material
- Bundle Size: 0.125″
- Sheath Diameter: 0.25″

DIFFUSED SENSING MODE ASSEMBLIES

Mfg. Part No.	Style	Sensing End Tip Style	Stock No.	Price Each 1-9
BAT23S	Bifurcated	Angled 90° and Threaded Brass Tip	02H6393	116.85
BT23S	Bifurcated	Threaded 5/16x24x1.5″, Brass End Tip	02H6400	86.27
BT13S	Bifurcated	Threaded, .062″	20H3288	86.27
OPPOSED SENSING MODE ASSEMBLIES				
IA23S	Individual	Angled Tip (90°)	02H6626	77.54
IAT23S	Individual	Angled 90° and Threaded Brass Tip	02H6625	89.55
IT23S	Individual	Threaded 5/16-24 x 1.5″, Brass End Tip	02H6658	63.34
ITA23S	Individual	Threaded 5/16-24 x 1.5″, Angled 90° End Tip	02H6657	114.66
IT26S	Individual	Threaded 72, 0.125″	20H9957	89.55

(73585)

R58 SERIES EXPERT REGISTRATION MARK SENSORS

more sensors, more solutions

Flat mount bracket

Right-angle bracket

Features:

- Ultra-fast 10kHz switching frequency
- Sensor automatically selects red, green or blue LED during TEACH to optimize application contrast
- Outstanding color contrast sensitivity, detects contrasts as low as 2% over a wide range of colors
- Rugged zinc alloy die-cast housing with high-quality acrylic lens suitable for food processing applications; rated IP67, NEMA 6

Specifications:

- Focus: 10mm (0.39″)
- Supply voltage: 10 to 30VDC
- Output type: Bipolar NPN/PNP

SENSORS

Mfg. Part No.	Sensing Image Orientation	Cable	Stock No.	Price Each
R58ECRGB1	Parallel to sensor length	5-wire, 2m	93K6147	246.00
R58ECRGB1Q	Parallel to sensor length	5-pin Euro-style QD pigtail	93K6148	246.00
R58ECRGB2	Perpendicular to sensor length	5-wire, 2m	93K6149	246.00
R58ECRGB2Q	Perpendicular to sensor length	5-pin Euro-style QD pigtail	93K6150	246.00

QUICK-DISCONNECT CABLES

Mfg. Part No.	Description	Length (m)	Stock No.	Price Each 1-9
MQDEC2-515	5-pin Euro-Style Straight, with shield	5	21H2313	33.81

BRACKETS

Mfg. Part No.	Description	Stock No.	Price Each 1-9
SMB55RA	Right-angle bracket, 12-gauge stainless steel	21H8851	9.52
SMB55F	Flat mount bracket, 12-gauge stainless steel	21H8850	9.52

(88873)

SLM METAL SLOT SENSORS

more sensors, more solutions

Just Added

- Self-contained, opposed-mode sensor pair in a U-shaped housing with 2 m (6.5′) 4-wire cable
- Sealed, yellow, die-cast metal housing is rated IEC IP67 (NEMA 6)
- Molded-in beam guides simplify beam placement
- Bipolar (one NPN and one PNP) output
- Fast 500-microsecond response time
- Single-turn potentiometer sensitivity adjustment
- Visible red beam
- Selectable Light Operate (L.O.) or Dark Operate (D.O.) with sealed switch
- 10 to 30V dc operation

Mfg. Part No.	Slot Width (mm)	Stock No.	Price Each
SLM10B6	10	78K9316	130.88
SLM20B6	20	11R0620	130.88
SLM30B6	30	78K9331	130.88
SLM50B6	50	78K9336	130.88
SLM80B6	80	78K9341	130.88
SLM120B6	120	78K9321	152.16
SLM180B6	180	11R0619	152.16
SLM220B6	220	78K9326	152.16

(148722)

TOUCH-ACTIVATED OPTOELECTRONIC SENSORS

more sensors, more solutions

- Operating Temperature: -20°C to +50°C
- Black Sensor Field Cover is Supplied

Just Added

Output is a 7A SPDT electromechanical relay. All models are supplied with a black poly-propylene field cover designed to prevent inadvertent switch activation.

WARNING: OTB and **LTB Series** Touch Buttons are not themselves safety devices. For two-hand control safety applications, see safety modules (**mfg. part no. ATGMK-VP6** two-hand control kit) *on page 1985.*

MOMENTARY ACTION OTB'S

Mfg. Part No.	Cable	Upper Housing	Supply Voltage	Output	Stock No.	Price Each 1-9
OTBA5	2m (6.5′)	Polysulfone	120VAC	SPDT Electromechanical Relay	02H6802	114.16
OTBA5QD	5-Pin Mini QD				21H4119	114.16
OTBB5	2m (6.5′)		220/240VAC		02H6803	114.16
OTBB5QD	5-Pin Mini QD				21H4147	114.16
OTBVP6	2m (6.5′)		10 - 30VDC	Complementary PNP	02H6805	114.16
OTBVP6QDH	4-Pin Euro QD				21H4195	114.16
OTBVN6	2m (6.5′)			Complementary NPN	02H6804	114.16
OTBVN6QDH	4-Pin Euro QD	Polysulfone	10 - 30VDC		21H4172	114.16

ALTERNATE ACTION LTB'S

LTBA5	2m (6.5′	Polysulfone	120VAC	SPDT Electromechanical Relay	02H6705	114.16
LTBB5	2m (6.5′)		220/240VAC		02H6706	114.16

CONTROL RELAYS

Mfg. Part No.	Description	Stock No.	Price Each 1-9
AT-AM-2A	115VAC, Redundant Safety Relay (Force-Guided) Contacts, 4A Maximum Each, One N.C. Reed Relay	02H6390	281.17
AT-FM-2A	24VAC/VDC, Redundant Safety Relay (Force-Guided) Contacts, 4A Maximum Each, One N.C. Reed Relay	02H6391	263.20
AT-FM-10K	24VAC/VDC, 6A, 2 dual NO/NC inputs 2 safety outputs	20H0848	285.39

QUICK-DISCONNECT CABLES

MQDC-406	4-Pin Euro Straight QD Cable - 2 Meters	02H6726	19.03
MQDC-415	4-Pin Euro Straight QD Cable - 5 Meters	02H6728	22.20
MQDC-430	4-Pin Euro Straight QD Cable - 9 Meters	02H6730	35.94
MBCC-406	4-Pin Mini-Style Straight QD Cable - 2 Meters	21H1177	40.44
MBCC-412	4-Pin Mini-Style Straight QD Cable - 4 Meters	21H1178	46.96
MBCC-430	4-Pin Mini-Style Straight QD Cable - 9 Meters	21H1180	90.44
MBCC-506	5-Pin Mini-Style Straight QD Cable - 2 Meters	21H1183	36.18

MOUNTING BRACKETS

SMB30MM	90°, Stainless Steel, 30mm	02H7581	5.29
SMB30SC	30mm Plastic, Swivel Mount	02H7582	7.40

(73581)

QUICK-DISCONNECT (QD) CABLE ASSEMBLIES

Just Added

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PICO-STYLE QUICK-DISCONNECT CABLES

- Cable: PVC Jacket, Polyurethane Connector Body, POM Snap-Lock Coupling
- Conductors: 26AWG High Flex Stranded, Gold-Plated Contacts
- Temperature: -40°C - +90°C (-40°F - +194°F)
- Voltage Rating: 125VAC/VDC

Mfg. Part No.	Length	Style	Used With	Stock No.	Price Each 1-9
PKG6Z-9	9m (30′)	6-Pin Straight	D10 Series	02H6813	34.95
PKW6Z-2	2m (6.5′)	6-Pin Right-Angle	D10 Series	02H6814	26.21
PKW6Z-9	9m (30′)		D10 Series	02H6815	34.95

EURO-STYLE QUICK-DISCONNECT CABLES

- Cable: PVC Jacket, Polyurethane Connector body, Nickel-Plated Brass Coupling Nut
- Conductors: 22AWG High Flex Stranded, PVC Insulation, Gold-Plated Contacts
- Temperature: -40°C - +90°C (-40°F - +194°F)
- Voltage Rating: 250VAC/300VDC

➤ CONTINUED ➤

QUICK-DISCONNECT (QD) CABLE ASSEMBLIES (CONT.)

Mfg. Part No.	Length	Style	Used With	Stock No.	Price Each 1-9
MQDC1-506	2m (6.5′)	5-Pin Straight	QS30 Q60 MINI-BEAM Expert Series EZ-LIGHT Series R58E	21H2288	19.66
MQDC1-515	5m (15′)			21H2290	22.94
MQDC1-530	9m (30′)			21H2292	37.13
MQDC1-506RA	2m (6.5′)	5-Pin Right-Angle		21H2289	19.66
MQDC1-515RA	5m (15′)			21H2291	22.94
MQDC1-530RA	9m (30′)			21H2293	37.13
MQDC-406	2m (6.5′)	4-Pin Straight	Q12 QS18 MINI-BEAM DC SM Series EZ-BEAM DC Series (**Q Suffix**) EZ-LIGHT Series Q45 Q20 M12 SLM	02H6726	19.03
MQDC-415	5m (15′)			02H6728	22.20
MQDC-430	9m (30′)			02H6730	35.94
MQDC-406RA	2m (6.5′)	4-Pin Right-Angle		02H6727	19.66
MQDC-415RA	5m (15′)			02H6729	22.94
MQDC-430RA	9m (30′)			02H6731	37.13

MICRO-STYLE QUICK-DISCONNECT CABLES

- Cable: PVC Jacket, Polyurethane Connector Body, nickel-plated brass coupling nut
- Conductors: 3 x 22AWG Gold-Plated Contacts
- Temperature: -40° C to +90° C
- Voltage/Current rating: 250VAC/DC, 4.0A

Mfg. Part No.	Length	Style	Used With	Stock No.	Price Each 1-9
MQDC-306	2m (6.5′)	3-Pin Straight	MINI-BEAM AC SM Series	21H2261	19.66
MQDC-315	5m (15′)			21H2263	22.94
MQDC-330	2m (6.5′)			21H2265	36.04
MQDC-306RA	9m (30′)	3-Pin Right-Angle		21H2262	19.66
MQDC-315RA	5m (15′)			21H2264	22.94
MQDC-330RA	9m (30′)			21H2266	36.04
MQVR3S-506	2m (6.5′)	5-Pin Straight	K50L & K80L Series	34K8143	33.83
MQVR3S-515	5m (15′)			23K7652	43.34
MQVR3S-530	9m (30′)			34K8146	63.42

(73584)

RETROREFLECTIVE TARGETS

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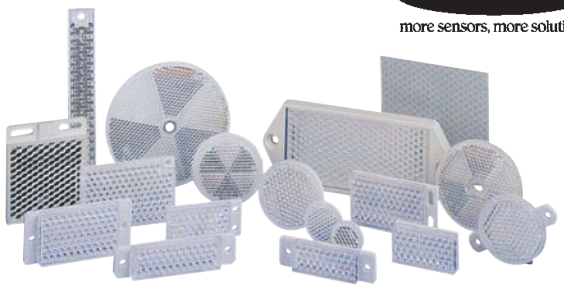


High-quality acrylic targets, high-temperature targets, and adhesive-backed retro tapes.

Mfg. Part No.	Description	Reflectivity Factor	Maximum Temperature	Stock No.	Price Each 1-9
BRT-1	1″ Round Retroreflective Target	1.0	65°C (150°F)	02H6397	2.19
BRT-3	3″ Round Retroreflective Target	1.0	65°C (150°F)	02H6399	4.37
BRT-84	84mm Round Retroreflective Target	1.4	65°C (150°F)	20H2844	4.37
BRT-41AHT	41mm Round Retroreflective Target	1.0	200°C (390°F)	20H2827	222.77
BRT-L	165mm x 19mm Rect. Retroreflective Target	0.8	65°C (150°F)	20H2776	3.28
BRT-32X20AM	20mm x 32mm Rect. Retroreflective Target	1.2	65°C (150°F)	20H2814	3.28
BRT-40X20AM	40mm x 20mm Rect. Retroreflective Target	1.2	50°C (120°F)	20H2822	4.37
BRT-51X51BM	51mm x 51mm Square Retroreflective Target	1.5	50°C (122°F)	98H5288	15.29
BRT-92X92C	92mm x 92mm Square Retroreflective Target	3.0	50°C (120°F)	20H2845	14.20
BRT-2X2	2″ x 2″ Square Retroreflective Target	1.0	50°C (120°F)	02H6398	4.37
BRT-THG-1-100	Retroreflective Tape, 25mm Wide, 2.5m length	0.7	60°C (140°F)	02H6396	25.12
BRT-THG-2-100	Retroreflective Tape, 50mm Wide, 2.5m length	0.7	60°C (140°F)	20H2785	50.24
BRT-THG-3-100	Retroreflective Tape, 75mm Wide, 2.5m length	0.7	60°C (140°F)	20H2789	76.44

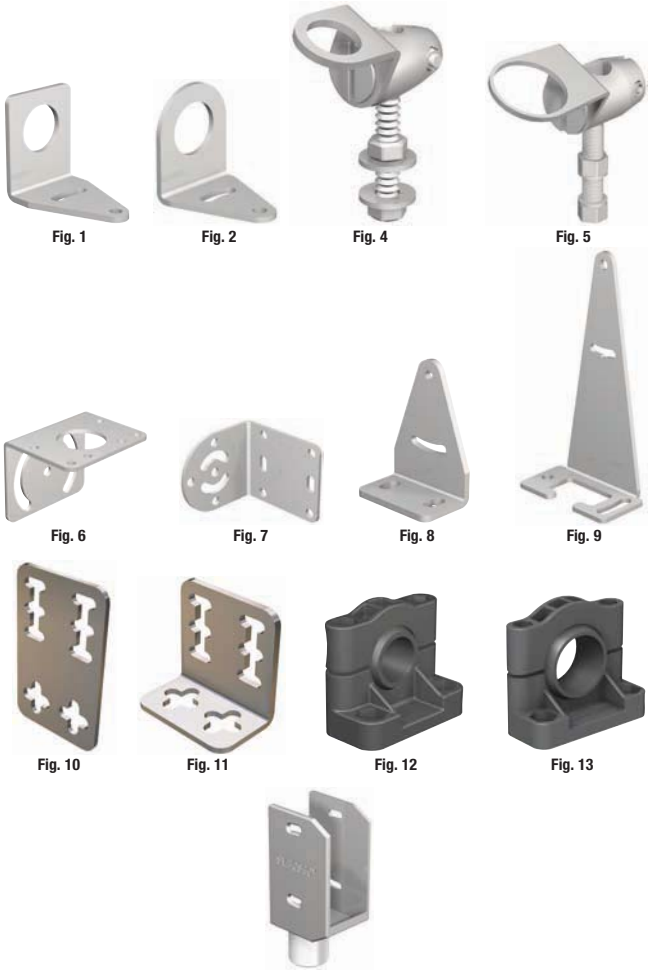
(73583)

SENSORS – PHOTOELECTRIC

SENSOR MOUNTING BRACKETS

Just Added

BANNER® more sensors, more solutions



Mfg. Part No.	Fig.	Description	For Use With	Stock No.	Price Each 1-9
SMB18A	1	12-Gauge, Stainless Steel, Right-Angle	MINI-BEAM, M18T, QS18, S18, T18	02H7579	3.18
SMBQS12PD	2	16-Gauge 300 Series Stainless Steel Right-Angle Barrel-Mount	M12	21H8786	3.20
SMB12FA	3	12mm Swivel Bracket	M12, MINI-BEAM©2	11R0621	10.64
SMB18FA	4	18mm Swivel Bracket	QS18/QS18U, MINI-BEAM, S18/M18/T18, S18U, Q45UR M18C2/S18C2, T18U, T-GAGE M18T, EZ-LIGHT M18/T18	78K9532	10.64
SMB30FA	5	30mm Swivel Bracket	QS30, SM30/SMI30, S30, T30/T30U, EZ-LIGHT T30	78K9534	10.64
SMB30MM	6	30mm, 12-Gauge, Stainless Steel	Q45, OTB, QS30	02H7581	5.29
SMBLASRA	7	316 Stainless Steel Right-Angle	Sealed Linear Array	51M6549	112.16
SMB312S	8	Stainless Steel 2-Axis, Side-Mount	SM312	02H7583	4.23
SMBQS30L	9	14-Gauge, Stainless Steel Right-Angle	QS30H2O	21H8790	4.26
SMB55F	10	12-Gauge Stainless Steel Flat Mount	R58E	21H8850	9.52
SMB55RA	11	12-Gauge Stainless Steel Right Angle	R58E	21H8851	9.52
SMB18SF	12	18mm Swivel Bracket, Black Thermoplastic Polyester	MINI-BEAM, M18T, QS18, S18, T18	02H7580	7.40
SMB30SC	13	30mm Swivel Bracket, Black Reinforced Thermoplastic Polyester	Q45, OTB, QS30	02H7582	7.40
SMBQS30Y	14	Wrap-Around Die-Cast Bracket	QS30 (DC only)	21H8792	5.32

(73586)

SM SERIES MINIATURE PHOTOELECTRIC SENSORS

EATON

Just Added

- Miniature size measures just 1.7″ tall, 1.29″ wide and 1.63″ deep
- Visible sensing beams and TargetLock™ marginal gain LED for easy install and alignment
- Multiple mounting options including industry-standard 18mm threads
- Available in AC/DC or DC-only voltages
- DC models feature both NPN and PNP outputs
- Perfect Prox® models offer the most reliable background rejection
- Reverse polarity, overload and short circuit protection
- Available with 6 ft. (2m) cable or 4-pin Euro quick-disconnect

Mfg. Part No.	Input Voltage	Range	Connection	Output Type	Stock No.	Price Each 1-4
THRU-BEAM MODE - SOURCE						
E65-SMTS15-HA	10-30 VDC	50 ft. (15m)	6.5 ft. (2m) Cable	N/A	47K7725	41.58
E65-SMTS15-HAD	10-30 VDC	50 ft. (15m)	4-Pin Micro Connector	N/A	47K7726	41.58
THRU-BEAM MODE - DETECTOR						
E65-SMTD15-HD	10-30 VDC	50 ft. (15m)	6.5 ft. (2m) Cable	NPN/PNP , 100 mA	47K7721	63.51
E65-SMTD15-HDD	10-30 VDC	50 ft. (15m)	4-Pin Micro Connector	NPN/PNP , 100 mA	47K7722	63.51
RETROREFLECTIVE MODE (POLARIZED)						
E65-SMPR3-HD	10-30 VDC	10 ft. (3m)	6.5 ft. (2m) Cable	NPN/PNP , 100 mA	47K7709	83.16
E65-SMPR3-HDD	10-30 VDC	10 ft. (3m)	4-Pin Micro Connector	NPN/PNP , 100 mA	47K7710	83.16
E65-SMPR3-GD	18-50 VDC/ 18-264 VAC	10 ft. (3m)	6.5 ft. (2m) Cable	VMOS , 200 mA	47K7705	100.80
E65-SMPR3-GDD	18-50 VDC/ 18-264 VAC	10 ft. (3m)	4-Pin Micro Connector	VMOS , 200 mA	47K7706	100.80
RETROREFLECTIVE (DIFFUSE MODE WITH ADJUSTABLE GAIN)						
E65-SMSD200-HL	10-30 VDC	8 in. (200mm)	6.5 ft. (2m) Cable	NPN/PNP , 100 mA	47K7719	70.06
E65-SMSD200-HLD	10-30 VDC	8 in. (200mm)	4-Pin Micro Connector	NPN/PNP , 100 mA	47K7720	70.06
E65-SMSD200-GL	18-50 VDC/ 18-264 VAC	8 in. (200mm)	6.5 ft. (2m) Cable	VMOS , 200 mA	47K7715	83.16
E65-SMSD200-GLD	18-50 VDC/ 18-264 VAC	8 in. (200mm)	4-Pin Micro Connector	VMOS , 200 mA	47K7716	83.16
PERFECT PROX BACKGROUND REJECTION MODE						
E65-SMPP100-HL	10-30 VDC	4 in. (100mm)	6.5 ft. (2m) Cable	NPN/PNP , 100 mA	47K7703	111.89
E65-SMPP100-HLD	10-30 VDC	4 in. (100mm)	4-Pin Micro Connector	NPN/PNP , 100 mA	47K7704	111.89
E65-SMPP100-GL	18-50 VDC/ 18-264 VAC	4 in. (100mm)	6.5 ft. (2m) Cable	VMOS , 200 mA	47K7699	136.08
E65-SMPP100-GLD	18-50 VDC/ 18-264 VAC	4 in. (100mm)	4-Pin Micro Connector	VMOS , 200 mA	47K7700	136.08

MOUNTING BRACKETS

Mfg. Part No.	Description	Stock No.	Price Each 1-4
6161AS6501	Right Angle Mounting Bracket for SM Series, Aluminum with Chromate Finish	44K9636	7.56
RETROREFECTORS AND RETROREFLECTIVE TAPE			
6200A-6504	1.25 in. Diameter Corner Cube Retroreflector, Adhesive Backed	44K9652	6.20
6200A-6502	2.18 in. Diameter Corner Cube Retroreflector, Adhesive Backed	44K9651	6.66
6200A-6506	3 in. Diameter Corner Cube Retroreflector, Metal Backed with Mounting Hole	44K9654	17.85
6201A-XXXX	2 in. Wide Retroreflective Tape, Adhesive Backed, 1 ft. Length	44K9659	28.73
MICRO CONNECTOR CABLES			
CSDS4A4CY2202	4-Pin, 4-Wire DC Micro Connector Cable, 22 AWG, PVC Jacket, 6.5 ft. (2m)	46K1910	15.51
CSAS4F4CY2202	4-Pin, 4-Wire AC Micro Connector Cable, 22 AWG, PVC Jacket, 6.5 ft. (2m)	46K1843	24.91

(142270)

Expert technical support

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

(148838)

ENHANCED 50 SERIES PHOTOELECTRIC SENSORS

Just Added

- Outstanding optical performance
- All units offer light/dark selection
- Available in AC/DC and DC-only voltages
- Fully potted construction for use in tough applications
- Power, output and alignment indicator LEDs
- Industry standard package size measures 3.46″ tall by 1.81″ wide by 1.91″ deep
- Available with 6 ft. (2m) cable or 4-pin Euro quick-disconnect

Cable Quick-Disconnect

THRU-BEAM MODE - SOURCE

Mfg. Part No.	Input Voltage	Range	Connection	Output Type	Stock No.	Price Each 1-4
1151E-6517	10-40 VDC	500 ft. (152m)	6.5 ft. (2m) Cable	N/A	44K5070	81.45
1151E-6547	10-40 VDC	500 ft. (152m)	4-Pin Euro QD	N/A	44K5074	81.45
1151E-6513	12-240 VDC/ 24-240 VAC	500 ft. (152m)	6.5 ft. (2m) Cable	N/A	44K5069	81.45
1151E-6543	12-240 VDC/ 24-240 VAC	500 ft. (152m)	4-Pin Euro QD	N/A	44K5073	81.45
THRU-BEAM MODE - DETECTOR						
1251E-6517	10-40 VDC	500 ft. (152m)	6.5 ft. (2m) Cable	NPN/PNP , 250 mA	44K5340	76.21
1251E-6547	10-40 VDC	500 ft. (152m)	4-Pin Euro QD	NPN/PNP , 250 mA	44K5345	76.21
1251E-6513	12-240 VDC/ 24-240 VAC	500 ft. (152m)	6.5 ft. (2m) Cable	Solid-State Relay , 300 mA	44K5338	83.87
1251E-6543	12-240 VDC/ 24-240 VAC	500 ft. (152m)	4-Pin Euro QD	Solid-State Relay , 300 mA	44K5344	83.87
RETROREFLECTIVE MODE (POLARIZED)						
1451E-6517	10-40 VDC	16 ft. (4.9m)	6.5 ft. (2m) Cable	NPN/PNP , 250 mA	44K5912	94.35
1451E-6547	10-40 VDC	16 ft. (4.9m)	4-Pin Euro QD	NPN/PNP , 250 mA	44K5917	94.35
1451E-6513	12-240 VDC/ 24-240 VAC	16 ft. (4.9m)	6.5 ft. (2m) Cable	Solid-State Relay , 300 mA	44K5910	103.22
1451E-6543	12-240 VDC/ 24-240 VAC	16 ft. (4.9m)	4-Pin Euro QD	Solid-State Relay , 300 mA	44K5916	103.22
DIFFUSE MODE WITH ADJUSTABLE GAIN						
1351E-6517	10-40 VDC	10 ft. (3m)	6.5 ft. (2m) Cable	NPN/PNP , 250 mA	44K5638	96.77
1351E-6547	10-40 VDC	10 ft. (3m)	4-Pin Euro QD	NPN/PNP , 250 mA	44K5643	96.77
1351E-6513	12-240 VDC/ 24-240 VAC	10 ft. (3m)	6.5 ft. (2m) Cable	Solid-State Relay , 300 mA	44K5636	104.84
1351E-6543	12-240 VDC/ 24-240 VAC	10 ft. (3m)	4-Pin Euro QD	Solid-State Relay , 300 mA	44K5642	104.84

MOUNTING BRACKETS

Mfg. Part No.	Description	Stock No.	Price Each 1-4
6150E-6503	Right Angle Mounting Bracket with Ball Swivel, Plastic	44K9629	8.39
6150E-6501	Right Angle Mounting Bracket with Slotted Mounting Holes, Nickel Plated Steel	44K9627	6.34
RETROREFECTORS AND RETROREFLECTIVE TAPE			
6200A-6504	1.25 in. Diameter Corner Cube Retroreflector, Adhesive Backed	44K9652	6.20
6200A-6502	2.18 in. Diameter Corner Cube Retroreflector, Adhesive Backed	44K9651	6.66
6200A-6506	3 in. Diameter Corner Cube Retroreflector, Metal Backed with Mounting Hole	44K9654	17.85
6201A-XXXX	2 in. Wide Retroreflective Tape, Adhesive Backed, 1 ft. Length	44K9659	28.73
MICRO CONNECTOR CABLES			
CSDS4A4CY2202	4-Pin, 4-Wire DC Micro Connector Cable, 22 AWG, PVC Jacket, 6.5 ft. (2m)	46K1910	15.51
CSAS4F4CY2202	4-Pin, 4-Wire AC Micro Connector Cable, 22 AWG, PVC Jacket, 6.5 ft. (2m)	46K1843	24.91

(142271)

Huge Expanded Selection of Semiconductors

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

(148843)

COMET SERIES PHOTOELECTRIC SENSORS

Just Added

- Flat 18mm tubular package style can be mounted on a flat surface or through a hole
- Solid polyurethane housing completely encapsulates internal circuits
- Right-angle viewing models mount in a depth of just 6/10″
- Visible sensing beams let you see where the sensor is aimed for easy install
- Available in AC/DC or DC-only voltages
- Perfect Prox® technology provides unmatched background rejection
- Gain adjustment on all models to ensure peak optical performance
- Enclosure rating NEMA 1, 2, 3, 4, 4X, 6, 12 and 13
- Available with M12 micro connector or 2-meter cable
- Viewing Angle available: Right-Angle Sensing and Forward Sensing

THRU-BEAM MODE (FOR A COMPLETE SYSTEM, ORDER IN PAIRS)

Mfg. Part No.	Input Voltage	Range	Connection	Output Type	Stock No.	Price Each 1-4
11102AQD07	10-30 VDC	80 ft. (24m)	4-Pin Micro Connector	N/A	44K5036	102.55
12102AQD07	10-30 VDC	80 ft. (24m)	4-Pin Micro Connector	NPN/PNP , 300mA	44K5140	135.48
11102A6517	10-30 VDC	80 ft. (24m)	6.5 ft (2m) Cable	N/A	44K5038	82.32
12102A6517	10-30 VDC	80 ft. (24m)	6.5 ft (2m) Cable	NPN/PNP , 300mA	44K5142	111.96
11102AQD03	10-30 VDC/ 20-264 VAC	80 ft. (24m)	4-Pin Micro Connector	N/A	44K5035	113.84
12102AQD03	15-30 VDC/ 20-264 VAC	80 ft. (24m)	4-Pin Micro Connector	VMOS/NPN , 300mA	44K5139	154.30
11102A6513	15-30 VDC/ 20-264 VAC	80 ft. (24m)	6.5 ft (2m) Cable	N/A	44K5037	93.61
12102A6513	15-30 VDC/ 20-264 VAC	80 ft. (24m)	6.5 ft (2m) Cable	VMOS/NPN , 300mA	44K5141	136.42
11100RQD07	10-30 VDC	20 ft. (6m)	4-Pin Micro Connector	N/A	44K5030	82.32
12100RQD07	10-30 VDC	20 ft. (6m)	4-Pin Micro Connector	NPN/PNP , 300mA	44K5135	111.96
11100R6517	10-30 VDC	20 ft. (6m)	6.5 ft (2m) Cable	N/A	44K5034	63.51
12100R6517	10-30 VDC	20 ft. (6m)	6.5 ft (2m) Cable	NPN/PNP , 300mA	44K5138	92.67
11100RQD03	15-30 VDC/ 20-264 VAC	20 ft. (6m)	4-Pin Micro Connector	N/A	44K5029	93.61
12100RQD03	15-30 VDC/ 20-264 VAC	20 ft. (6m)	4-Pin Micro Connector	VMOS/NPN , 300mA	44K5134	136.42
11100R6513	15-30 VDC/ 20-264 VAC	20 ft. (6m)	6.5 ft (2m) Cable	N/A	44K5033	73.86
12100R6513	15-30 VDC/ 20-264 VAC	20 ft. (6m)	6.5 ft (2m) Cable	VMOS/NPN , 300mA	44K5137	113.84
RETROREFLECTIVE MODE (POLARIZED)						
14101AQD07	10-30 VDC	15 ft. (4.5m)	4-Pin Micro Connector	NPN/PNP , 300mA	44K5772	135.48
14101A6517	10-30 VDC	15 ft. (4.5m)	6.5 ft (2m) Cable	NPN/PNP , 300mA	44K5776	111.96
14101AQD03	15-30 VDC/ 20-264 VAC	15 ft. (4.5m)	4-Pin Micro Connector	VMOS/NPN , 300mA	44K5771	159.94
14101A6513	15-30 VDC/ 20-264 VAC	15 ft. (4.5m)	6.5 ft (2m) Cable	VMOS/NPN , 300mA	44K5775	143.01
14101RQD07	10-30 VDC	10 ft. (3m)	4-Pin Micro Connector	NPN/PNP , 300mA	44K5778	143.01
14101R6517	10-30 VDC	10 ft. (3m)	6.5 ft (2m) Cable	NPN/PNP , 300mA	44K5780	121.37
14101RQD03	15-30 VDC/ 20-264 VAC	10 ft. (3m)	4-Pin Micro Connector	VMOS/NPN , 300mA	44K5777	169.35
14101R6513	15-30 VDC/ 20-264 VAC	10 ft. (3m)	6.5 ft (2m) Cable	VMOS/NPN , 300mA	44K5779	148.65
DIFFUSE MODE WITH ADJUSTABLE GAIN (STANDARD BEAM: 2 IN. FIELD OF VIEW @ 5 IN.)						
13100AQD07	10-30 VDC	24 in. (610mm)	4-Pin Micro Connector	NPN/PNP , 300mA	44K5489	127.95
13100A6517	10-30 VDC	24 in. (610mm)	6.5 ft (2m) Cable	NPN/PNP , 300mA	44K5491	106.31
13100AQD03	15-30 VDC/ 20-264 VAC	24 in. (610mm)	4-Pin Micro Connector	VMOS/NPN , 300mA	44K5488	154.30
13100A6513	15-30 VDC/ 20-264 VAC	24 in. (610mm)	6.5 ft (2m) Cable	VMOS/NPN , 300mA	44K5490	136.42
13100RQD07	10-30 VDC	24 in. (610mm)	4-Pin Micro Connector	NPN/PNP , 300mA	44K5493	127.95
13100R6517	10-30 VDC	24 in. (610mm)	6.5 ft (2m) Cable	NPN/PNP , 300mA	44K5495	106.31

➤ CONTINUED ➤

SENSORS – PHOTOELECTRIC

COMET SERIES PHOTOELECTRIC SENSORS (CONT.)

DIFFUSE MODE WITH ADJUSTABLE GAIN (STANDARD BEAM: 2 IN. FIELD OF VIEW @ 5 IN.)

Mfg. Part No.	Input Voltage	Range	Connection	Output Type	Stock No.	Price Each 1-4
13100RQD03	15-30 VDC/ 20-264 VAC	24 in. (610mm)	4-Pin Micro Connector	VMOS/NPN , 300mA	44K5492	154.30
13100R6513	15-30 VDC/ 20-264 VAC	24 in. (610mm)	6.5 ft (2m) Cable	VMOS/NPN , 300mA	44K5494	136.42
DIFFUSE MODE WITH ADJUSTABLE GAIN (WIDE BEAM: 4.3 IN. FIELD OF VIEW @ 3 IN.)						
13107ASQD07	10-30 VDC	6 in. (150mm)	4-Pin Micro Connector	NPN/PNP , 300mA	70M9020	204.29
13107AS6517	10-30 VDC	6 in. (150mm)	6.5 ft (2m) Cable	NPN/PNP , 300mA	63P9154	106.31
13107ASQD03	15-30 VDC/ 20-264 VAC	6 in. (150mm)	4-Pin Micro Connector	VMOS/NPN , 300mA	63P9153	154.30
13107AS6513	15-30 VDC/ 20-264 VAC	6 in. (150mm)	6.5 ft (2m) Cable	VMOS/NPN , 300mA	12M5894	199.50
13107RSQD07	10-30 VDC	6 in. (150mm)	4-Pin Micro Connector	NPN/PNP , 300mA	44K5556	127.95
13107RS6517	10-30 VDC	6 in. (150mm)	6.5 ft (2m) Cable	NPN/PNP , 300mA	63P9156	106.31
13107RSQD03	15-30 VDC/ 20-264 VAC	6 in. (150mm)	4-Pin Micro Connector	VMOS/NPN , 300mA	44K5555	154.30
13107RS6513	15-30 VDC/ 20-264 VAC	6 in. (150mm)	6.5 ft (2m) Cable	VMOS/NPN , 300mA	63P9155	136.42
PERFECT PROX BACKGROUND REJECTION MODE						
13101AQD07	10-30 VDC	4 in. (100mm)	4-Pin Micro Connector	NPN/PNP , 300mA	44K5497	154.30
13101A6517	10-30 VDC	4 in. (100mm)	6.5 ft (2m) Cable	NPN/PNP , 300mA	44K5503	136.42
13101AQD03	15-30 VDC/ 20-264 VAC	4 in. (100mm)	4-Pin Micro Connector	VMOS/NPN , 300mA	44K5496	187.22
13101A6513	15-30 VDC/ 20-264 VAC	4 in. (100mm)	6.5 ft (2m) Cable	VMOS/NPN , 300mA	44K5502	165.58
13104RS5007	10-30 VDC	4 in. (100mm)	4-Pin Micro Connector	NPN/PNP , 300mA	44K5535	154.30
13104RS5020	10-30 VDC	4 in. (100mm)	6.5 ft (2m) Cable	NPN/PNP , 300mA	44K5537	136.42
13104RS5003	15-30 VDC/ 20-264 VAC	4 in. (100mm)	4-Pin Micro Connector	VMOS/NPN , 300mA	44K5534	187.22
13104RS5013	15-30 VDC/ 20-264 VAC	4 in. (100mm)	6.5 ft (2m) Cable	VMOS/NPN , 300mA	44K5536	165.58
13103AQD07	10-30 VDC	9 in. (225mm)	4-Pin Micro Connector	NPN/PNP , 300mA	44K5514	154.30
13103A6517	10-30 VDC	9 in. (225mm)	6.5 ft (2m) Cable	NPN/PNP , 300mA	44K5516	136.42
13103AQD03	15-30 VDC/ 20-264 VAC	9 in. (225mm)	4-Pin Micro Connector	VMOS/NPN , 300mA	44K5513	187.22
13103A6513	15-30 VDC/ 20-264 VAC	9 in. (225mm)	6.5 ft (2m) Cable	VMOS/NPN , 300mA	44K5515	165.58
13103RQD07	10-30 VDC	9 in. (225mm)	4-Pin Micro Connector	NPN/PNP , 300mA	44K5518	154.30
13103R6517	10-30 VDC	9 in. (225mm)	6.5 ft (2m) Cable	NPN/PNP , 300mA	44K5520	136.42
13103RQD03	15-30 VDC/ 20-264 VAC	9 in. (225mm)	4-Pin Micro Connector	VMOS/NPN , 300mA	44K5517	187.22
13103R6513	15-30 VDC/ 20-264 VAC	9 in. (225mm)	6.5 ft (2m) Cable	VMOS/NPN , 300mA	44K5519	165.58

MOUNTING BRACKETS

Mfg. Part No.	Description	Stock No.	Price Each 1-4
6161AS5296	Flush Flat Mounting Bracket for Comet, 304 Stainless Steel	44K9634	8.30
E58KS5200	Adjustable Protective Bracket for Comet, Black Painted Steel	47K7507	38.51
6181AS5200	Ball Swivel Mounting Bracket, Provides 10″ Tilt, Made of Nylon	44K9645	36.70
RETROREFECTORS AND RETROREFLECTIVE TAPE			
6200A-6504	1.25 in. Diameter Corner Cube Retroreflector, Adhesive Backed	44K9652	6.20
6200A-6502	2.18 in. Diameter Corner Cube Retroreflector, Adhesive Backed	44K9651	6.66
6200A-6506	3 in. Diameter Corner Cube Retroreflector, Metal Backed with Mounting Hole	44K9654	17.85
6201A-XXXX	2 in. Wide Retroreflective Tape, Adhesive Backed, 1 ft. Length	44K9659	28.73
MICRO CONNECTOR CABLES			
CSDS4A4CY2202	4-Pin, 4-Wire DC Micro Connector Cable, 22 AWG, PVC Jacket, 6.5 ft. (2m)	46K1910	15.51
CSAS4F4CY2202	4-Pin, 4-Wire AC Micro Connector Cable, 22 AWG, PVC Jacket, 6.5 ft. (2m)	46K1843	24.91

(142269)

PHOTOELECTRIC SENSORS

Just Added

CARLO GAVAZZI

Features:
- Ultra short body length
- For sensing of light colored/reflective objects
- Universal mounting via M18 nut or side mounting
- Easy to view LED indicators (green for power and yellow for output)
- Adjustable potentiometer
- Dual output

Specifications::
- Housing material: PBT
- Max. current: 150mA
- Switching speed: 1,000Hz
- Supply voltage: 10-30VDC
- Termination: 2m cable
- IP66 sealed

Mfg. Part No.	Sensing Mode	M18 Threads W x D x L (mm)	Max. Sensing Range	Output Type	Stock No.	Price Each 1-4
CGPS-UR-10N	Diffuse-Reflective	13.5x29x40	0-100mm	NPN NO/NC	08R0951	53.93
CGPS-UR-10P	Diffuse-Reflective	13.5x29x40	0-100mm	PNP NO/NC	08R0952	53.93
CGPS-UR-30N	Diffuse-Reflective	13.5x29x40	0-300mm	NPN NO/NC	08R0953	53.93
CGPS-UR-30P	Diffuse-Reflective	13.5x29x40	0-300mm	PNP NO/NC	08R0954	53.93
CGPS-UG-6MN	Retroreflective	13.5x29x40	0-6m	NPN NO/NC	08R0949	53.93
CGPS-UG-6MP	Retroreflective	13.5x29x40	0-6m	PNP NO/NC	08R0950	53.93
CGPS-UG-3MNE	Polarized Retroreflective	13.5x29x40	0-3m	NPN NO/NC	08R0947	53.93
CGPS-UG-3MPE	Polarized Retroreflective	13.5x29x40	0-3m	PNP NO/NC	08R0948	53.93
CGPS-UT-20MN	Through-Beam	13.5x29x40	0-20m	NPN NO/NC	08R0955	54.11
CGPS-UT-20MP	Through-Beam	13.5x29x40	0-20m	PNP NO/NC	08R0956	54.11
CGPS-UT-6MN	Through-Beam	13.5x29x40	0-6m	NPN NO/NC	08R0957	54.11
CGPS-UT-6MP	Through-Beam	13.5x29x40	0-6m	PNP NO/NC	08R0958	54.11

(147866)

S15 SERIES M18 TUBULAR PHOTOELECTRIC SENSORS

IDEC

- Cable or pig-tail versions
- No sensitivity adjustment trimmer
- IP69K mechanical protection
- Small housing of only 40 mm
- Operation Mode: Light/Dark select

Mfg. Part No.	Sensing Mode	Output	Sensing Range	Stock No.	Price Each 1-4
S15-PA-2-B00-NK	Polarized Retroreflective	NPN-2m cable	3 m	08R5328	62.84
S15-PA-2-B00-PK	Polarized Retroreflective	PNP-2m cable	3 m	08R5329	62.84
S15-PA-2-C00-NK	Diffuse	NPN-2m cable	400 mm	08R5330	69.23
S15-PA-2-C00-PK	Diffuse	PNP-2m cable	400 mm	08R5331	69.23
S15-PA-2-F00-NK	Through-Beam receiver	NPN-2m cable	20 m	08R5332	48.99
S15-PA-2-F00-PK	Through-Beam receiver	PNP-2m cable	20 m	08R5333	48.99
S15-PA-2-G00-XG	Through-Beam emitter	-2m cable	20 m	08R5334	45.80

(147896)

S51 SERIES M18 TUBULAR PHOTOELECTRIC SENSORS

RoHS Compliant Available

IDEC

- Selectable dark or light output
- Fast response time
- Cable or M12 connection with NPN or PNP output
- IP67

The **S51 series** offers a cost-effective solution in M18 photoelectric sensors. With a wide unique flat cylindrical housing, wide range of optics function and mounting accessories, the S51 sensors are ideal for applications in all industries, including packaging, bottling, assembly, and material handling.

SENSORS

Mfg. Part No.	Function	Connection	Output Type	Sensing Range	Stock No.	Price Each
● S51-PA-2-F00-NK	Through-Beam Receiver	M12 Cable	NPN	0 - 18 m	67M9113	50.69
● S51-PA-2-F00-PK	Through-Beam Receiver	M12 Cable	PNP	0 - 18 m	67M9114	52.01
● S51-PA-5-F00-NK	Through-Beam Receiver	M12 Connector	NPN	0 - 18 m	67M9124	54.38
● S51-PA-5-F00-PK	Through-Beam Receiver	M12 Connector	PNP	0 - 18 m	67M9125	55.79

➤ CONTINUED ➤

S51 SERIES M18 TUBULAR PHOTOELECTRIC SENSORS (CONT.)

Mfg. Part No.	Function	Connection	Output Type	Sensing Range	Stock No.	Price Each
S51-PA-2-G00-XG	Through-Beam Emitter	2m Cable	...	0 - 18 m	67M9115	46.89
S51-PA-5-G00-XG	Through-Beam Emitter	M12 Connector	...	0 - 18 m	67M9126	50.58
S51-PA-2-A00-NK	Retroreflective	2m Cable	NPN	0.1 - 4 m	67M9105	54.73
S51-PA-2-A00-PK	Retroreflective	2m Cable	PNP	0.1 - 4 m	67M9106	54.73
S51-PA-5-A00-NK	Retroreflective	M12 Connector	NPN	0.1 - 4 m	67M9116	58.51
S51-PA-5-A00-PK	Retroreflective	M12 Connector	PNP	0.1 - 4 m	67M9117	47.59
S51-PA-2-B01-NK	Polarized Retroreflective	2m Cable	NPN	0.1 - 3 m	67M9107	64.17
S51-PA-2-B01-PK	Polarized Retroreflective	2m Cable	PNP	0.1 - 3 m	67M9108	65.84
S51-PA-5-B01-NK	Polarized Retroreflective	M12 Connector	NPN	0.1 - 3 m	67M9118	66.94
S51-PA-5-B01-PK	Polarized Retroreflective	M12 Connector	PNP	0.1 - 3 m	67M9119	68.68
S51-PA-2-C01-NK	Diffuse	2m Cable	NPN	1 - 40 cm	67M9109	70.74
S51-PA-2-C01-PK	Diffuse	2m Cable	PNP	1 - 40 cm	67M9110	72.58
S51-PA-5-C01-NK	Diffuse	M12 Connector	NPN	1 - 40 cm	67M9120	73.39
S51-PA-5-C01-PK	Diffuse	M12 Connector	PNP	1 - 40 cm	67M9121	75.30

MOUNTING BRACKETS

Mfg. Part No.	Description	Stock No.	Price Each 1-24	Price Each 25-49
G5000001	Front protection	67M9101	21.93	20.91
895000006	1pc adjustable support for M18 tubular	67M9165	7.74	7.38
95ACC1370	2 pcs fixed support for M18 tubular	67M9198	3.87	3.69
95ACC5230	M18/14 mounting bracket	67M9176	5.16	4.92
95ACC5240	M18 mounting bracket	67M9177	3.46	3.10
95ACC5250	M18 mounting bracket	67M9178	3.87	3.69
95ACC5270	M18 mounting bracket	67M9179	3.87	3.69
95ACC5300	M18/14 adjustable mounting support	67M9180	6.45	6.15
95ACC5220	M18 jointed support	67M9175	30.96	29.52
95ACC1380	Support with micrometic regulation for M18 tubular	67M9309	43.86	41.82

REFLECTORS

S940700023	23mm prismatic, 31mm support	67M9158	9.03	8.61
S19120000	36 x 176mm prismatic, 41 x 181mm support	67M9104	14.19	13.53
S940700048	48mm prismatic, 63mm support	67M9159	12.90	12.30
S940700075	75mm prismatic, 82mm support	67M9160	14.19	13.53
S940700972	18 x 54mm prismatic, 22 x 82mm support	67M9161	9.03	8.61
S940710048	48mm prismatic, CH.52mm hexagon support	67M9162	14.19	13.53
95A151010	47 x 47mm prismatic, 51.5 x 61mm support	67M9186	16.77	15.99
95A151020	36 x 55mm prismatic, 40.5 x 60mm support	67M9187	16.77	15.99
95A151050	38 x 40mm microprism, 51 x 60.7mm support	67M9188	32.25	30.75
95A151060	9.7 x 19mm microprism, 13.8 x 23mm support	67M9189	18.06	17.22
95A151080	23mm prismatic, 25mm self-adhesive support	67M9190	9.03	8.61
95A151090	48mm prismatic, 63mm support	67M9191	25.80	24.60
95A155050	146 x 15mm prismatic, 150 x 18mm support	67M9192	21.93	20.91

(107890)

DS1 SERIES PHOTOELECTRIC SENSOR

IDEC

RoHS Compliant Available

- Power Supply: 24VDC
- Load Current Output: 100mA
- Response Time: 1ms - 2.75ms
- Resolution: 5 - 7mm
- 100 to 300mm height
- Operating Temperature: 0 to +55°C

DS1 series sensor suitable for detection and measurement of objects with different shapes and sizes. PNP digital and 0-10V analog outputs.

Mfg. Part No.	Sensing Mode	Output Type	Sensing Range (m)	Stock No.	Price Each 1-24	Price Each 25-49
DS1-LD-HR-015-JV	Through-Beam	PNP	0.15 - 2.1	67M9100	992.53	891.77

(107870)

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(148886)

LD46 SERIES UV LED EMISSION PHOTOELECTRIC SENSOR

RoHS Compliant Available

IDEC

- Power Supply: 15 - 30VDC
- Output Current: 100mA
- Response Time: 250us
- Operating Temperature: -10 to +55°C
- UV luminescent mark detection
- High-powered UV emission
- Fast switching frequency
- Easy setting with a clear bar graph indicator

Luminescence sensors emit ultraviolet (UV) light and receive visible light reflected from luminescent surfaces.

Mfg. Part No.	Sensing Mode	Output Type	Sensing Range (mm)	Stock No.	Price Each 1-24	Price Each 25-49
LD46-UL-715	Reflective	NPN/PNP	10 - 20	67M9102	1210.37	1087.49

LENS

Mfg. Part No.	Description	Stock No.	Price Each 1-24	Price Each 25-49
95ACC1220	Plastic lens with 40mm focus	67M9168	51.60	49.20

(107871)

TL46 SERIES CONTRAST PHOTOELECTRIC SENSOR

RoHS Compliant Available

IDEC

- Power Supply: 10 - 30VDC
- Output Current: 100mA
- Response Time: 25us
- Automatic, manual and dynamic setting
- Standard mounting, M12 connector
- Operating Temperature: -10 to +55°C

TL46 series digital contrast sensor is characterized in terms of resolution, definition and precision of the light spot emitted by RGB LEDs, fast response time and high switching speed.

Mfg. Part No.	Output Type	Operating Mode	Sensing Range (mm)	Stock No.	Price Each 1-24	Price Each 25-49
TL46-WL-815	NPN/PNP	Dark/Light	6 - 12	67M9163	432.23	389.23

LENSES

Mfg. Part No.	Description	Stock No.	Price Each 1-24	Price Each 25-49
95ACC2540	Plastic lens with 9mm focus	67M9174	20.64	19.68
95ACC1030	Plastic lens with 18mm focus	67M9166	49.02	46.74
95ACC1100	Plastic lens with 22mm focus	67M9167	59.34	56.58
890000194	Plastic lens with 28mm focus	67M9164	59.34	56.58
95ACC1220	Plastic lens with 40mm focus	67M9168	51.60	49.20

(107873)

S62 SERIES HIGH-PERFORMANCE PHOTOELECTRIC SENSORS

RoHS Compliant Available

IDEC

- Power Supply: 10 - 30VDC
- Output Current: 100m
- High-resolution with LED or Laser emission
- NPN or PNP double output with standard NO-NC configuration
- Sturdy ABS housing with compact 18x50x50mm dimensions
- Operating Temperature: -10 to +55°C

Mfg. Part No.	Sensing Mode	Output Type	Sensing Range	Stock No.	Price Each 1-24
S62-PA-5-M01-NN	Background Suppression	NPN NO/NC	30 - 300 mm	67M9138	193.62
S62-PA-5-M01-PP	Background Suppression	PNP, NO/NC	30 - 330 mm	67M9139	193.62
S62-PA-5-M11-NN	Background Suppression	NPN NO/NC	60 - 600 mm	67M9140	208.75
S62-PA-5-M11-PP	Background Suppression	PNP, NO/NC	60 - 600 mm	67M9141	208.75

➤ CONTINUED ➤

SENSORS – PHOTOELECTRIC

S62 SERIES HIGH-PERFORMANCE PHOTOELECTRIC SENSORS (CONT.)

Mfg. Part No.	Sensing Mode	Output Type	Sensing Range	Stock No.	Price Each 1-24
● S62-PA-5-M21-NN	Background Suppression	NPN NO/NC	60 - 1200 mm	67M9142	239.00
● S62-PA-5-M21-PP	Background Suppression	PNP, NO/NC	60 - 1200 mm	67M9143	239.00
● S62-PA-5-M31-NN	Background Suppression	NPN NO/NC	200 - 2000 mm	67M9144	269.26
● S62-PA-5-M31-PP	Background Suppression	PNP, NO/NC	200 - 2000 mm	67M9145	269.26
● S62-PL-5-B01-NN	Polarized Retroreflective	NPN NO/NC	0.3 - 20 m	67M9146	378.24
● S62-PL-5-B01-PP	Polarized Retroreflective	PNP, NO/NC	0.3 - 20 m	67M9147	378.24
● S62-PL-5-M11-NN	Background Suppression	NPN NO/NC	50 - 350 mm	67M9148	453.89
● S62-PL-5-M11-PP	Background Suppression	PNP, NO/NC	50 - 350 mm	67M9149	453.89

MOUNTING BRACKETS

Mfg. Part No.	Description	Stock No.	Price Each 1-24	25-49
● 95ACC2410	Protection bracket	67M9172	5.16	4.92
● 95ACC2420	Protection bracket	67M9173	7.74	7.38
● 95ACC5330	Mounting bracket	67M9183	3.87	3.69
● 95ACC5340	Mounting bracket	67M9184	3.87	3.69

REFLECTORS

● S940700023	23mm prismatic, 31mm support	67M9158	9.03	8.61
● S19120000	36 x 176mm prismatic, 41 x 181mm support	67M9104	14.19	13.53
● S940700048	48mm prismatic, 63mm support	67M9159	12.90	12.30
● S940700075	75mm prismatic, 82mm support	67M9160	14.19	13.53
● S940700972	18 x 54mm prismatic, 22 x 82mm support	67M9161	9.03	8.61
● S940710048	48mm prismatic, CH.52mm hexagon support	67M9162	14.19	13.53
● 95A151010	47 x 47mm prismatic, 51.5 x 61mm support	67M9186	16.77	15.99
● 95A151020	36 x 55mm prismatic, 40.5 x 60mm support	67M9187	16.77	15.99
● 95A151050	38 x 40mm microprism, 51 x 60.7mm support	67M9188	32.25	30.75
● 95A151060	9.7 x 19mm microprism, 13.8 x 23mm support	67M9189	18.06	17.22
● 95A151080	23mm prismatic, 25mm self-adhesive support	67M9190	9.03	8.61
● 95A151090	48mm prismatic, 63mm support	67M9191	25.80	24.60
● 95A155050	146 x 15mm prismatic, 150 x 18mm support	67M9192	21.93	20.91

(107892)

S65 SERIES COLOR PHOTOELECTRIC SENSORS

RoHS Compliant Available

IDEC

- Power Supply: 10 - 30VDC
- Output Current: 100mA
- Response Time: 1ms (FAST); 5ms (NORM)
- 3 channel color sensor with C or C+I functions and 10 tolerance levels
- 3 independent NPN or PNP outputs and RS485 serial interface
- 2-pushbutton easy setting and 4-digit display
- Operating Temperature: -10 to +55°C

S65 series color sensors offers the best performance for color detection in a standard 50 x 50 x 25mm housing. The sensor can memorize and recognize 3 colors on 3 independent channel. C (chromaticity) or C+I (chromaticity and intensity) detection algorithm and tolerance levels can be selected for each color.

Mfg. Part No.	Output Type	Sensing Range (mm)	Stock No.	Price Each 1-24	25-49
● S65-PA-5-V19-NNN	NPN, NO	5 - 45	67M9150	856.01	769.10
● S65-PA-5-V19-PPP	PNP, NO	5 - 45	67M9151	856.01	769.10

MOUNTING BRACKETS

Mfg. Part No.	Description	Stock No.	Price Each 1-24	25-49
● 95ACC5330	Mounting bracket	67M9183	3.87	3.69
● 95ACC5340	Mounting bracket	67M9184	3.87	3.69

(107874)

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(148881)

S80 SERIES DISTANCE PHOTOELECTRIC SENSORS

RoHS Compliant Available

IDEC

- Power Supply: 15 - 30VDC
- Output Current: 100mA
- Response Time: 1ms (FAST); 5ms(NORM)
- Operating Temperature: -10 to +55°C
- 4-digit display and RS485 serial interface

S80 series, in a compact sturdy metal housing, offers an innovative class 2 laser distance sensor with time-of-flight measurement. All models have two outputs. Also offers the option to adjust the 4-20mA analog output.

Mfg. Part No.	Output Type	Sensing Range (m)	Stock No.	Price Each 1-24	25-49
● S80-MH-5-YL09-NNIZ	NPN	0.3 - 7	67M9153	1382.40	1244.16
● S80-MH-5-YL09-PPIZ	PNP	0.3 - 7	67M9154	1382.40	1244.16

MOUNTING BRACKET

Mfg. Part No.	Description	Stock No.	Price Each 1-24	25-49
● 95ACC2260	L shaped mounting bracket	67M9152	18.06	17.22

(107875)

S60 SERIES MULTIFUNCTION PHOTOELECTRIC SENSORS

RoHS Compliant Available

IDEC

- Power Supply: 10 - 30VDC
- Output Current: 100m
- Operating Temperature: -25 to +55°C
- M12 connection with standard NPN and PNP configuration
- Long operating distance

S60 series sensors have a sensitivity adjustment that provides quick and precise setting of the switching threshold. They also have an M12 connection that can be used straight or rotated to a right-angle position.

Mfg. Part No.	Sensing Mode	Output Type	Sensing Range	Stock No.	Price Each 1-24
● S60-PA-5-B01-NN	Polarized Retroreflective	NPN	0.1 - 8 m	67M9127	129.79
● S60-PA-5-B01-PP	Polarized Retroreflective	PNP	0.1 - 8 m	67M9128	127.78
● S60-PA-5-C11-NN	Diffuse	NPN	5 - 200 cm	67M9131	133.05
● S60-PA-5-C11-PP	Diffuse	PNP	5 - 200 cm	67M9132	133.05
● S60-PA-5-F01-NN	Receiver	NPN	0 - 20 m	67M9133	114.54
● S60-PA-5-F01-PP	Receiver	PNP	0 - 20 m	67M9134	114.54
● S60-PA-5-G00-XG	Emitter	...	0 - 20 m	67M9135	99.25
● S60-PA-5-T51-NN	Retroreflective for Transparent	NPN	0 - 2 m	67M9136	140.50
● S60-PA-5-T51-PP	Retroreflective for Transparent	PNP	0 - 2 m	67M9137	138.33

CONNECTOR CABLES

Mfg. Part No.	Description	Stock No.	Price Each 1-24	25-49
SA9Z-CM8K-4S2	2m M8 cable	34M2074	20.90	18.70
SA9Z-CM8K-4L2	2m M8 angle cable	73H6186	20.90	18.70
SA9Z-CM8K-4S5	5m M8 cable	34M2075	27.17	24.31
SA9Z-CM8K-4L5	5m M8 right angle cable	34M2073	27.17	24.31

MOUNTING BRACKETS

● 95ACC5350	Protection bracket w/ jointed support	67M9185	36.12	34.44
● 95ACC1320	Mounting bracket	67M9169	5.16	4.92
● 95ACC5310	Protection bracket	67M9181	5.16	4.92
● 95ACC5320	Protection bracket	67M9182	6.45	6.15
● 95ACC5330	Mounting bracket	67M9183	3.87	3.69
● 95ACC5340	Mounting bracket	67M9184	3.87	3.69

REFLECTORS

● IAC-R5	R5 Standard Reflector	15C7070	9.26	8.29
● IAC-R6	R6 Small Reflector	33K1037	6.27	5.61
● S940700023	23mm prismatic, 31mm support	67M9158	9.03	8.61
● S19120000	36 x 176mm prismatic, 41 x 181mm support	67M9104	14.19	13.53
● S940700048	48mm prismatic, 63mm support	67M9159	12.90	12.30
● S940700075	75mm prismatic, 82mm support	67M9160	14.19	13.53
● S940700972	18 x 54mm prismatic, 22 x 82mm support	67M9161	9.03	8.61
● S940710048	48mm prismatic, CH.52mm hexagon support	67M9162	14.19	13.53
● 95A151010	47 x 47mm prismatic, 51.5 x 61mm support	67M9186	16.77	15.99
● 95A151020	36 x 55mm prismatic, 40.5 x 60mm support	67M9187	16.77	15.99
● 95A151050	38 x 40mm microprism, 51 x 60.7mm support	67M9188	32.25	30.75

➤ CONTINUED ➤

S60 SERIES MULTIFUNCTION PHOTOELECTRIC SENSORS (CONT.)

REFLECTORS

Mfg. Part No.	Description	Stock No.	Price Each 1-24	Price Each 25-49
95A151060	9.7 x 19mm microprism, 13.8 x 23mm support	67M9189	18.06	17.22
95A151080	23mm prismatic, 25mm self-adhesive support	67M9190	9.03	8.61
95A151090	48mm prismatic, 63mm support	67M9191	25.80	24.60
95A155050	146 x 15mm prismatic, 150 x 18mm support	67M9192	21.93	20.91

(107891)

SA1U HEAVY DUTY PHOTOELECTRIC SENSORS

Just Added

IDEC

- Long range sensing distance from 1 meter to 50 meters
- 3 A relay contact SPDT
- Time delay functions
- Spring up screw terminals
- 12-240 VDC / 24-240 VAC universal voltage
- Response time: 20 ms max.

These sensors are assembled in a fully automated robotic process and are UL/c-UL listed, CE marked and IP67 rated, making them ideal for use in wet environments such as bottling and food processing industries. Built-in 3 amp relay contacts (NO/NC) and time delay functions give customers the ability to configure the sensor for their specific needs. There are four timing delay functions to choose from: one shot, ON delay, OFF delay and normal mode, as well as a 0.1 to 5 second time range.

Mfg. Part No.	Sensing Mode	Sensing Range (m)	Time Delay Functions	Stock No.	Price Each 1-24
SA1U-B02M	Background Suppression	2	Without	14P9725	151.53
SA1U-B02MT	Background Suppression	2	With	14P9726	161.98
SA1U-D01M	Diffuse	1	Without	14P9727	120.18
SA1U-D01MT	Diffuse	1	With	14P9728	130.63
SA1U-P07M	Polarized Retroreflective	7	Without	14P9729	130.63
SA1U-P07MT	Polarized Retroreflective	7	With	14P9730	141.08
SA1U-T50M	Through-Beam	50	Without	14P9731	151.53
SA1U-T50MT	Through-Beam	50	With	14P9732	161.98

(136224)

NEXT GENERATION MINIATURE PHOTOELECTRIC SENSORS

RoHS Compliant Available

OMRON INDUSTRIAL AUTOMATION

- Pin-Point Beam for Detecting Extremely Small Objects
- Thru-Beam, Retro-Reflective and Diffuse Models
- IP67
- 12-24VDC Input Voltage
- 50mA Max.
- Prewired with 6.6' (2m) of Cable
- Utilizes Omron's "Hyper LED" Technology to Achieve Industry's Smallest Visible Red Beam
- Self-Contained Sensor Ideal for Compact Applications
- Convergent-Beam Model Spot Diameter: 0.15mm
- CE Compliant

Mfg. Part No.	Sensing Method	Operation Mode	Sensing Range (mm)	Dimensions Inches (mm)	Stock No.	Price Each 1-5
E3T-FD13	Diffuse Flat	Light-On, NPN	5 - 30	0.82 x 0.47 x 0.15 20.8 x 12 x 3.7	12C0923	85.88
E3T-FD11	Diffuse Flat	Light-On, NPN	5 - 30	0.82 x 0.47 x 0.15 (20.8 x 12 x 3.7)	88K1921	98.65
E3T-SL11	Convergent Beam	Light-On, NPN	5 - 30	0.82 x 0.47 x 0.15 (20.8 x 12 x 3.7)	88K1922	85.88
E3T-SR21-2M	Retro-Refective	Light-On, NPN	10 - 200	0.57 x .028 x .037 (14.6 x 7 x 9.5)	12M6280	142.45
E3T-ST11	Thru-Beam	Light-On, NPN	1000	0.57 x .028 x .037 (14.6 x 7 x 9.5)	88K1923	111.99
E3T-ST12	Thru-Beam	Dark-On, NPN	1000	0.57 x .028 x .037 (14.6 x 7 x 9.5)	91F9324	111.99

(12926)

MINIATURE PHOTOELECTRIC SENSORS

RoHS Compliant Available

OMRON INDUSTRIAL AUTOMATION

- Long Sensing Distance
- High Noise Immunity
- NPN Output
- IP67 Water and Dust Rating
- Switch Selectable Light-On/Dark-On Operation
- 12 - 24VDC Supply Voltage
- Response Time: 1MS
- Pre-Wired 6.56′ (2m) Cable Length

Dimensions: 1.2 x 0.66 x 0.4″ (31 x 17 x 10.4mm). M8 connector type and PNP output models also available; *go online or call.* CE compliant.

Mfg. Part No.	Sensing Method	Sensing Distance	Connection	Stock No.	Price Each 1-9
E3Z-T61	Through-Beam	4.9′	Pre-wired	88K1925	114.25
E3Z-R61	Polarized Reflective	3.9″ to 9.8′	Pre-wired	93K7548	90.97
E3Z-D62	Diffuse-Reflective	0.2″ to 3.9″	Pre-wired	93K7547	86.86
E3Z-D61	Diffuse-Reflective	0.2″ to 3.9″	Pre-wired	88K1924	81.47
E3ZD66	Diffuse-Reflective	0.2″ to 3.9″	Connector	05J1679	125.86
E3Z-R66	Polarized Reflective	3.9″ to 9.8′	Connector	85C2080	139.19
E3Z-T66	Through-Beam	0.2″ to 3.9″	Connector	16M2426	158.88

(60874)

PLASTIC-BODY CYLINDRICAL PHOTOELECTRIC SENSORS

RoHS Compliant Available

OMRON INDUSTRIAL AUTOMATION

Just Added

- Threaded M18 size
- Built-in amplifier
- Chemical-resistant, ABS resin case type
- Polarized models available
- Compact and space-saving
- Long detection distance -- up to 7m
- DC switching types with connectors for easy maintenance
- Wide operating voltage range (10 to 30VDC, or 24 to 240VAC)
- Short-circuit and reverse connection protection (DC switching type)
- Light source: infrared LED

Dimensions: through-beam and retro-reflective: 90 x 16.8mm; diffuse reflective: 65 x 16.8mm. Pre-wired 2m (6.56′) cable length. Power and light receive status indicators. Additional stainless and nickel-plated brass versions, polarized and connector versions and NPN types also available; *go online or call.* UL recognized, CSA certified, CE compliant, NEMA approved.

Mfg. Part No.	Sensing Method	Supply	Output	Sensing Range	Stock No.	Price Each 1-9
E3F2-7C4	Through-Beam	10-30VDC	NPN Light-On/ Dark-On	22.96′ (7m)	01C6969	110.31
E3F2-DS10C4-N	Diffuse	10-30VDC	NPN Light-On/ Dark-On	3.94″ (10cm)	52F4365	83.41
E3F2-3Z1	Through-Beam	24-240VAC	SCR Light-On	9.89′ (3m)	27M2389	145.07
E3F2-3Z2	Through-Beam	24-240VAC	SCR Dark-On	9.89′ (3m)	27M2390	145.07
E3F2-R2Z1	Retro-Reflective*	24-240VAC	SCR Light-On	6.56′ (2m)	52F4360	99.13
E3F2-R2Z2	Retro-Reflective*	24-240VAC	SCR Dark-On	6.56′ (2m)	27M2388	100.94
E3F2-R4C4	Retro-Reflective*	24-240VAC	NPN	13.12′ (4m)	10R5222	72.46
E3F2-R4C4-P1	Retro-Reflective*	24-240VAC	NPN	13.12′ (4m)	10R5223	75.34
E3F2-DS10Z1-N	Diffuse	24-240VAC	SCR Light-On	3.94″ (10cm)	52F4363	96.41
E3F2-DS10Z2-N	Diffuse	24-240VAC	SCR Dark-On	3.94″ (10cm)	27M2386	96.41
E3F2-DS30C4-P1	Diffuse	10-30VDC	NPN, Light-On/ Dark-On	11.8″ (30cm)	91B4841	141.02
E3F27C4M1M†	Through-Beam	10-30VDC	NPN, Light-On/ Dark-On	23 ′ (7m)	66J6928	178.78
E3F2-DS30C4-M1-M†	Diffuse	10-30VDC	NPN, Light-On/ Dark-On	11.8″ (30cm)	09H2011	121.30

*Includes Reflector †Nickel-plated brass body

(3543)

TechCast® Product Training

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

(148857)

SENSORS – PHOTOELECTRIC

HEAVY-DUTY, LONG-RANGE REFLECTIVE PHOTOELECTRIC SENSORS

RoHS Compliant Available

OMRON INDUSTRIAL AUTOMATION

- Universal AC/DC Supply Voltage: 42-240VAC, 24-240VDC
- DPDT 10A, 240VAC Output Standard
- Easy-to-Wire Terminal Strip
- Plug-In Replaceable Relay Outputs
- Light-ON/Dark-ON Operation, Switch Selectable
- Mutual Interference Protection
- Adjustable Sensitivity With Operation And Stability Indicators
- NEMA b4, 4X, 12, 13 and IP67
- Light Source: Infared LED
- ¾″-14NPT Conduit Entry

Dimensions: 7.32H x 3.50W x 2.48″D (186 x 89 x 63 mm). Mounting bracket and reflector for retroreflective type are included. UL recognized, CSA certified.

Mfg. Part No.	Description	Sensing Range	Supply Voltage (VAC)	Stock No.	Price Each
● E3K-R10K4	Non-Polarized Retroreflective	32.81′ (10M)	42	27M2392	267.15
● E3K-D2K4	Diffuse Reflective	6.56′ (2M)	42	52F4335	302.39

(3541)

E3G SERIES LONG-DISTANCE PHOTOELECTRIC SENSORS

RoHS Compliant Available

OMRON INDUSTRIAL AUTOMATION

Retroreflective units feature sensing distance up to 10m. One-touch teach function (up to 2m, diffuse) minimizes set-up and changeover time. NPN/PNP switchable output. Light-ON/Dark-ON operation. 10-30VDC supply voltage. **Mfg. part nos. E3G-R13** and **E3G-R17** include reflector. *For other types, order reflector separately below. Order mounting brackets separately below.* CE compliant.

SENSORS

Mfg. Part No.	Description	Connection	Stock No.	Price Each 1-9
● E3G-R13	Polarized Retroreflective	Pre-leaded	19C6935	181.15
● E3G-R17		Connector	19C6936	187.36
● E3G-L77	Diffuse Reflective	Connector	12C0754	205.97

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each 1-24
● E39-R1	100mm to 6m Reflector	27M2403	15.37
● E39-L131	Adjustable Side- or Rear-Mounting Bracket	19C6942	8.20

(59387)

AC/DC SUPPLY PHOTOELECTRIC SENSORS WITH TIMER MODULES

NEMA

RoHS Compliant Available

OMRON INDUSTRIAL AUTOMATION

- Switch-Selectable Light-ON/Dark-ON Operation for Timer Models
- ON-Delay, OFF-Delay, One-Shot, and ON-OFF Delay Modes
- Polarized Diffuse Retroreflective, and Thru-Beam Models
- NEMA 1, 4, 4x, 12 and IP 66
- Plug-In Replaceable Outputs
- SPDT Relay Output @ 3A, 250VAC; 3A 30VDC
- Supply Voltage: 24 to 240VAC, 50/60Hz; 12 to 240VDC
- Dimensions: 2.95H x 1.02W x 2.95″D (75 x 26 x 75mm)
- Adjustable Sensitivity and Mutual Interface Protection Included
- Operation Indicators, Mounting Brackets, ½″ - 14 NPT Conduit Entry Included
- Optional Solid-State Outputs

Solid-state output modules **series G3K** and reflector adapter **E39-L7** for stud-mounting **E39-R1** reflector also available; *go online or call.* UL listed, CSA certified, CE compliant. *For Omron's series E3A2-XC fiber-optic sensors on this page.*

SENSORS

Mfg. Part No.	Sensing Method	Sensing Range	Detectable Object Type	With Timer	Stock No.	Price Each
● E3A2-10M4T	Thru-Beam	32.8′ (10m)	Opaque Materials, 1.02″ (26mm) Min. Dim.	Y	27M2380	360.82
● E3A2DS70M4	Diffuse Reflective	27.6″ (70cm)	Opaque and Translucent Materials	N	27M2381	212.59
● E3A2-DS70M4T		27.6″ (70cm)		Y	27M2374	250.44
● E3A2-R3M4	Retroflective	9.8′ (3m)	Opaque and Mirror Surface Materials, 2.20″ (56mm) Min. Dim.	N	90B3567	250.44
● E3A2-R3M4D		9.8′ (3m)		Y	27M2375	298.50
● E3A2-R3M4T		9.8′ (3m)		Y	27M2376	294.13

➤ CONTINUED ➤

AC/DC SUPPLY PHOTOELECTRIC SENSORS WITH TIMER MODULES (CONT.)

REPLACEMENT PARTS

Mfg. Part No.	Description	Stock No.	Price Each 1-24
● G6C-2117P-US-DC8	Relay Output Module, SPDT, 3A at 250VAC (Output Supplied with Each Sensor)	34K3624	5.92
● E39-R1	Reflector (Supplied with Retroflective Sensors)	27M2403	15.37

(3542)

AC/DC FIBER-OPTIC AMPLIFIER WITH RELAY OUTPUT

RoHS Compliant Available

OMRON INDUSTRIAL AUTOMATION

- Slim Amplifier with Plug-in Outputs
- Standard 3A, 250VAC; 3A, 30VDC Relay Output
- Built-in Time Delays
- Universal Supply Voltage for AC/DC Operation
- Solid-State Output Available
- Light-ON/Dark-ON Operation, Switch Selectable
- 24 to 240VAC, 50/60Hz; 12 to 240VDC
- Power Consumption: 1.5W
- Light Source: Pulse-Modulated Red LED
- Adjustable Sensitivity
- SPDT Contact Configuration
- 15ms Response Time
- NEMA 1, 4, 4X, 12, IP66

Uses E-32 series fiber-optic cables. Solid state output modules **series G6K** also available; *go online or call.* UL listed, CSA certified.

AMPLIFIERS

Mfg. Part No.	Sensing Range	Timer Function	Indicators	Stock No.	Price Each 1-4
● E3A2-XCM4	…	No Timer Included	Light Incident (Red LED), Output Stability (Green LED)	27M2377	221.59
● E3A2-XCM4D	0.1 to 5 sec.	Independently Adjustable On-Delay (0.1 to 5 sec.)	Light Incident (Red LED), Output Sability (Green LED), Output Operation (Yellow LED)	27M2378	258.73
● E3A2-XCM4T	0.1 to 5 sec.	On-Delay, Off-Delay, One-Shot or Equal On-Delay and Off-Delay (0.1 to 5 sec.)		27M2379	258.73

REPLACEMENT PARTS

Mfg. Part No.	Description	Stock No.	Price Each 1-24
● G6C-2117P-US-DC8	Relay Output Module, 3PDT, 3A @ 250VAC (Supplied w/Each Sensor)	34K3624	5.92

(73539)

LONG-RANGE PHOTOELECTRIC SENSORS WITH PLUG-IN BASE

NEMA

RoHS Compliant Available

OMRON INDUSTRIAL AUTOMATION

- Universal AC/DC Supply Voltage
- Sensing Head Replaceable Without Rewiring
- Built-In ON- and OFF-Delay Timers Available
- Switch Selectable Light-ON and Dark-ON Operation
- Mutual Interference Protection
- Ready-to-Use: Includes 3A Relay, Mounting Bracket and Reflector
- Power consumption: 2VA (AC), 1.5W (DC)
- Supply Voltage: 24 to 240VSC, 50/60Hz; 12 to 240VDC
- SPDT Contacts
- Min. Load: 10mA, 5VDC
- NEMA 1, 3, 4, 12, 13, IP66

Replacement mounting bracket **mfg. part no. E39-L35** also available; *go online or call.* Dimensions: 90.3H x 73W x 36mm (3.56 x 2.87 x 1.42″). UL listed, CSA certified.

SENSORS

Mfg. Part No.	Sensing Method	Sensing Range	Detectable Object Type	Stock No.	Price Each 1-4
● E3B2-D2M4-US	Diffuse Reflective	9.84′ (3m)	Opaque and Transparent	27M2382	268.12
● E3B2-R5M4D-US*	Retroflective	16.40′ (5m)	Shiny and Opaque, 3.15″ (80mm) Min. Distance	27M2384	299.30
● E3B2-R5M4-US				27M2383	285.58
● E3B2-R7M4-US	Retroflective	22.97′ (7m)	Opaque, 3.15″ (80mm) Min. Distance	27M2385	285.58

*With timer (0.5-20 Seconds)

REPLACEMENT PARTS

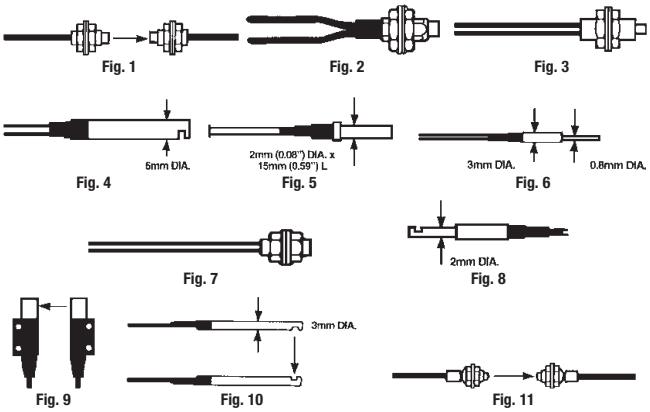
Mfg. Part No.	Description	Stock No.	Price Each 1-24
● E39-R2	Reflector (Supplied w/Retroflective Sensors)	38B246	20.45

(73258)

E32 SERIES FIBER-OPTIC CABLE SETS

RoHS Compliant Available

OMRON INDUSTRIAL AUTOMATION



- Extensive Selection of Fiber-Optic Sensing Heads Offers Many Unique Solutions for Tough Problems
- Fiber-Optic Sensors Detect Small, Fast-Moving Objects in Space-Confined Installations and Harsh Environments
- For a Customer Fit in the Field, Most Plastic Filament Cables Can Be Cut to Length
- For Detection in Hard-to-Reach Places, sensing heads With Bendable Stainless Steel Tubing Retain Complex Shapes
- Coiled and Ultra-Flexible Cables - Ideal for Flexing and Reciprocating Machinery Such as Robots
- Side-View Sensing Heads or Accessories Save Space in Right-Angle Detection
- Convergent Beam Sensing Heads Allow Accurate Positioning and Background Suppression Even for Shiny Objects
- Narrow Detection Zone of Concentric Beam Sensing Heads Help Eliminate Background Object and Gives Consistent Sensing, Regardless of Object Direction
- High Flexible Fibers With Minimum 1mm Bending Radius Allows Cable to Conform to Machine Contours
- Most Fiber Cables Offer IP67 Protection
- Temperature Range: -40°C to 70°C (-40°F to 158°F)

Fiber-optic photoelectric sensor cables are provided as a complete set. Cable length: 2M. Sensing distance and object detection are typical when used with a general purpose amplifier. Most cable can be cut to fit. **Sold as a package of 2 cables**.

Mfg. Part No.	Fig.	Configuration	Sensing Distance (cm)	Min. Object Detection (mm)	Stock No.	Price Each 1-5
● E32-TC200	1	Thru-Beam, General-Purpose	12	0.2	52F4370	65.55
● E32-DC200	2	Diffuse General Purpose	7.5	0.015	52F4379	67.47
● E32-CC200	3	Diffuse, M6 Threaded Head	7.5	0.03	52F9257	74.86
● E32-D61	3	Diffuse, M6 Compact Threaded Head, High Temperature	4.5	0.03	92F635	298.18
● E32-D11L	3	Diffuse, M6 Compact Threaded Head	10	0.015	50B6316	90.62
● E32-D14L	4	Diffuse, Side Beam	4	0.03	88F1351	156.81
● E32-D32	5	Diffuse	2	0.03	19C7909	97.99
● E32-D33	6	Diffuse, Probe Type	5	0.015	50B6317	104.41
● E32-DC200E	7	Diffuse M3 Threaded	1.8	0.03	27M2399	84.29
● E32-D24	8	Diffuse, Side Beam	1.5	0.03	83F1998	143.95
● E32-T14	9	Thru-Beam	90	1	27M2401	127.88
● E32-T14L	10	Thru-Beam	90	1	27M2402	112.46
● E32-TC200A	11	Thru-Beam	12	0.2	27M2400	69.42
● E32-T11R	11	Thru-Beam M4 x 14mm (0.55")	14	0.2	88K1926	132.38

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each 1-5
● E39-F1	Focusing Lens Pair	88K1927	49.04

(69341)

FIBER-OPTIC PHOTOELECTRIC SENSORS

RoHS Compliant Available

OMRON INDUSTRIAL AUTOMATION

Omron fiber-optic sensor amplifier units come prewired with a 2m cable. DIN rail mountable. **E32 series** fiber-optic sensing cables ordered seperately *on this page*.

E3X-A SERIES GENERAL-PURPOSE
High performance with quick response time and self-diagnostics. 8 turn sensitivity adjustment with position indicator. IP66 enclosure rating.

Mfg. Part No.	Output Configuration	Additional Functionality	Stock No.	Price Each 1-9
● E3X-NA11	NPN LO/DO	…	92C2195	215.97
E3X-A21	NPN LO/DO	Off-Delay, Alarm, Check Input	90B3806	176.64
● E3X-NA41	PNP LO/DO	…	74C1459	172.49

E3X-NT/M SERIES EXTENDED RANGE, AUTOTUNING
Sensing distance is up to 100% greater than standard amplifiers. Pushbutton sensitivity adjustment. IP50 enclosure rating. Supply voltage: 12-24VDC.

➤ CONTINUED ➤

FIBER-OPTIC PHOTOELECTRIC SENSORS (CONT.)

Mfg. Part No.	Output Configuration	Additional Functionality	Stock No.	Price Each 1-9
E3X-NT11	NPN LO/DO	…	52F4374	175.91
● E3X-NM11	NPN LO/DO	4 Seperate Channels, Off-Delay Timer, Remote Teach Input	52F4372	454.26

E3X-DA SERIES WITH DIGITAL DISPLAY
High performance amplifier with 3 user selectable sensing modes; standard, long distance, and high speed. Display is user-selectable for digital level, percentage or analog. Teach or manual sensitivity adjustment. Adjustment off-delay. IP50 enclosure rating. Supply voltage: 12-24VDC.

Mfg. Part No.	Output Configuration	Additional Functionality	Stock No.	Price Each 1-9
● E3X-DA11-N	NPN LO/DO	…	18M7320	182.68
● E3X-DA41-N	PNP LO/DO	…	19C7907	182.68
● E3X-DA21-N	NPN LO/DO	Second Output Analog 1-5VDC	19C7906	246.46
● E3X-DA51-N	PNP LO/DO	Second Output Analog 1-5VDC	19C7908	228.08

E3X-NH SERIES HIGH PRECISION, EXTENDED RANGE
Employs industry's first 16-bit processor. Automatic sensitivity adjustment feature allows stable detection in frequency changing environments. 3 teach modes, pushbutton sensitivity adjustment plus manual fine tune feature. Second alarm output on all models. IP50 enclosure rating. Supply voltage: 12-24VDC.

Mfg. Part No.	Output Configuration	Additional Functionality	Stock No.	Price Each 1-9
E3X-NH11	NPN LO/DO	…	88F3091	208.20
E3X-NH41	PNP LO/DO	…	12C0957	208.20

E3X-DA-S SERIES POWER TUNING, DIGITAL DISPLAY
Power tuning function addresses saturation, insufficient light and sensor variation. Dual display allows simultaneous viewing of current and preset values. 4-element LED and auto power control. 2 independent outputs for area detection, remote input function, counter function. Supply voltage: 12-24VDC.

Mfg. Part No.	Description	Output Configuration	Stock No.	Price Each 1-9
● E3XDA11S	Standard Model, pre-wired cable, red LED	NPN LO/DO	97H5080	249.26
● E3XDAB11S	Mark-detecting, pre-wired cable, blue LED	NPN LO/DO	18M7321	293.24
● E3XDAB6S	Standard Model, connector, blue LED	NPN LO/DO	18M7322	285.90
● E3XDAG11S	Mark-detecting, pre-wired cable, green LED	NPN LO/DO	66J7236	285.90
● E3XDAG6S	Mark-detecting, connector, green LED	NPN LO/DO	18M7323	285.90

E3X-MDA SERIES DUAL FIBER SENSORS
New dimension 2-channel amplifiers feature extremely narrow 5mm per channel profile. AND/OR control out put. Flexible control from the mobile console. Supply voltage: 12-24VDC.

Mfg. Part No.	Description	Output Configuration	Stock No.	Price Each 1-9
● E3XMDA11	2 Channel FOA, NPN, prewired cable	NPN LO/DO	66J7276	395.87
● E3XMDA41	2 Channel FOA, PNP, prewired cable	PNP LO/DO	18M7324	395.87
● E3X-MDA6	2 Channel FOA, NPN, connector	NPN LO/DO	21J6534	395.87
● E3XMDA8	2 Channel FOA, PNP, connector	PNP LO/DO	66J7278	395.87
● E3XCN11	Master connector for E3X-MDA11 & E3X-MDA41	...	66J7223	24.61
● E3XCN12	Slave connector for E3X-MDA11 & E3X-MDA41	...	66J7224	21.59
● E3XCN21	Master connector for E3X-MDA6 & E3X-MDA8	...	66J7225	28.07
● E3XCN22	Slave connector for E3X-MDA6 & E3X-MDA8	...	66J7227	24.61

E3XNA SERIES MANUAL FIBER AMPLIFIER
Adjuster type standard for true ease and simplicity. Supply voltage: 12-24VDC.

Mfg. Part No.	Description	Output Configuration	Stock No.	Price Each 1-9
● E3X-NA11	Standard Model, pre-wired cable, red LED	NPN LO/DO	92C2195	215.97
● E3XNA11F2M	High-speed Detection Model, pre-wired cable, red LED	PNP LO/DO	27M2397	296.75
● E3X-NA11	High-speed Detection Model, pre-wired cable, red LED	NPN LO/DO	92C2195	215.97
● E3XNA41F2M	High-speed Detection Model, pre-wired cable, red LED	PNP LO/DO	66J7284	296.75
● E3XNA6	Standard Model, connector, red LED	NPN LO/DO	27M2398	215.97
● E3XNA8	Standard Model, connector, red LED	PNP LO/DO	66J7288	215.97
● E3XNAG11	Mark-detecting, pre-wired cable, green LED	NPN LO/DO	66J7279	243.94
● E3XNAG41	Mark-detecting, pre-wired cable, green LED	PNP LO/DO	66J7280	243.94

(64071)

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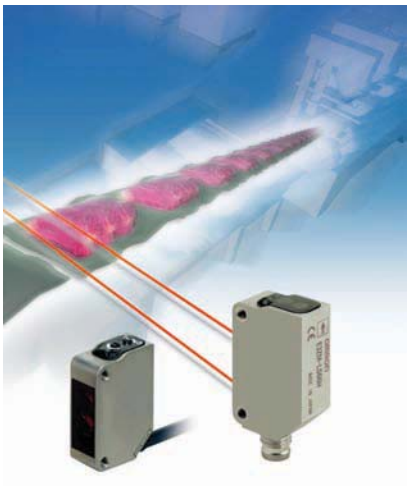
SENSORS – PHOTOELECTRIC • SENSORS – POSITION & ENCODING

E3ZM STAINLESS STEEL PHOTOELECTRIC SENSORS

RoHS Compliant Available

OMRON INDUSTRIAL AUTOMATION



- SUS316L stainless steel casing
- Meets IP69K standards (1450psi washdown)
- Smooth shape allows easier cleansing: few seams and laser marked labels eliminate contamination
- Superior chemical resistance
- Response time: 1ms max.
- Load rating: 100mA at 30VDC max.

Reduce replacement costs where sensors fail frequently due to high-pressure chemical washdown. Used in cutting, weighing and packaging machinery for meat, poultry and fish processing. Voltage range: 12-30VDC. Current consumption: 25mA max. (reflective); 20mA (through-beam). Connection: 2m cable. Dimensions (mm): 32.2H x 10.8W x 21D. Reflectors for **E3ZM-R series** *ordered separately below.* Distance settable sensors available; *go online or call Newark.*

STAINLESS STEEL PHOTOELECTRIC SENSORS

Mfg. Part No.	Sensing Method	Sensing Distance (m)	Output Type	Stock No.	Price Each 1-4
● E3ZM-T61 2M	Through-Beam	15	NPN	22M3779	393.85
● E3ZM-R61 2M	Retroreflective	Up To 4*	NPN	22M3778	245.36
● E3ZM-D62 2M	Diffuse	1	NPN	04M4848	232.44

*Reflector type determines ultimate sensing distance. See table below.

REFLECTORS FOR E3ZN-R SENSORS

Mfg. Part No.	Application	Sensing Distance (m)	Dimensions (mm)	Stock No.	Price Each 1-4
● E39-R1S	Polarized Light Source	0.1 to 4	59.9H x 40.3W x 7.5D	78H1777	20.75
● E39R1K	Fog Preventive Coating	0.1 to 3	59.9H x 40.3W x 7.5D	66J7559	39.72

(89796)

ML7 SERIES MINIATURE PHOTOELECTRIC SENSORS

RoHS Compliant Available

PEPPERL+FUCHS SENSING YOUR NEEDS

- IP69K rated for high-pressure washdown
- Ecolab certified
- Automatic cross talk protection for all diffused and retro-reflective models
- 5 sensing modes
- 2 lens positions
- High ambient ligh immunity
- 10-30 VDC; 100 mA max.
- Temperature range: -4°F to +140°F
- Some models with 4-in-1 output (NPN, PNP, L.O./D.O modes)

THRU BEAM MODE – SENSING RANGE 0-3.5M

Mfg. Part No.	Model	Directional Mounting	Output	Stock No.	Price Each 1-4
● M7/76A/115	Transmitter	Vertical	...	43J1303	119.31
● MV7/59/102/115	Receiver	Vertical	PNP	43J1299	158.67
● M71/76A/115	Transmitter	Horizontal	...	43J1304	119.31
● MV71/59/102/115	Receiver	Horizontal	NPN	43J1301	158.67
● MV71/59/82B/103/115	Receiver	Horizontal	PNP	43J1302	166.05

DIFFUSED MODE – LIGHT ON OPERATING MODE

Mfg. Part No.	Sensing Range (mm)	Directional Mounting	Output	Stock No.	Price Each 1-4
● ML7-8-200/25/102/115	20-200	Vertical	NPN	08J9159	141.52
● ML7-8-200/25/103/115	20-200	Vertical	PNP	08J9161	141.52
● ML71-8-200/25/102/115	20-200	Horizontal	NPN	02J5405	141.52
● ML71-8-200/25/103/115	20-200	Horizontal	PNP	08J9181	141.52

RETRO-REFLECTIVE MODE – SENSING RANGE 0-2.5M

Mfg. Part No.	Reflector Distance	Directional Mounting	Output	Stock No.	Price Each 1-4
● ML7-55/59/102/115	30mm-2.5m	Vertical	PNP	08J9140	147.27
● ML7-55/59/103/115	30mm-2.5m	Vertical	PNP	08J9144	147.27
● ML71-55/59/102/115	30mm-2.5m	Horizontal	NPN	08J9164	147.27
● ML71-55/59/103/115	30mm-2.5m	Horizontal	PNP	08J9168	147.27

➤ CONTINUED ➤

ML7 SERIES MINIATURE PHOTOELECTRIC SENSORS (CONT.)

RETRO-REFLECTIVE MODE – SENSING RANGE 0-2.5M

Mfg. Part No.	Model	Directional Mounting	Output	Stock No.	Price Each 1-4
● ML71-6/59/102/115	20mm-2.5m	Horizontal	NPN	08J9172	135.76
● ML71-6/59/103/115	20mm-2.5m	Horizontal	PNP	08J9176	135.76

DIFFUSE MODE WITH BACKGROUND SUPPERSSION

ML7-8-H-140-RT/59/65A/115/136	5-350mm	Vertical	4-in-1	70K3483	173.73
ML7-8-H-350-IR/59/65A/136/143	4-140mm	Vertical	4-in-1	69M3884	204.79

RETRO-REFLECTIVE FOR CLEAR OBJECT DETECTION MODE

● ML7-54-G/25/136/115	0-3.5m	Vertical	4-in-1	69M3880	182.04
● ML7-54-G/25/136/143	0-3.5m	Vertical	4-in-1	69M3882	182.04

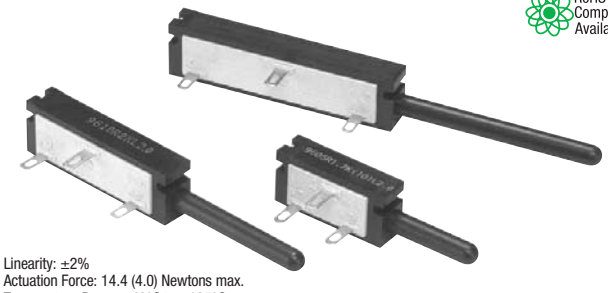
* Denotes electrical connection of quick-disconnect type V31.

(83019)

MODEL 9600 MINIATURE SPRING RETURN LINEAR MOTION POSITION SENSORS

BEI DUNCAN ELECTRONICS DIVISION
BEI TECHNOLOGIES, INC.

RoHS Compliant Available



- Linearity: ±2%
- Actuation Force: 14.4 (4.0) Newtons max.
- Temperature Range: -40°C to +135°C
- Mechanical Life: 2,000,000 Full Cycles; 5,000,000 Dither Cycles
- Spring return design allows for interface-free installation.

9600 series spring return linear motion position sensors are ideal for a variety of applications requiring a highly miniaturized solution. Plastic housing and shaft. Plated brass eyelet style terminals. 4.8mm diameter shaft. Supplied with internal spring to return actuator to extended position. Ideally suited for use with microprocessor-based systems including joystick controls, robotics and industrial automation and controls.

Mfg. Part No.	Electrical Travel (mm)	Active Electrical Travel (mm)	Mechanical Travel (mm)	Power Rating at 70°C (Watts)
● 9605R1.7KL2.0	12.7	10.0	14.2	0.25
● 9610R3.4KL2.0	25.4	22.8	26.9	0.5
● 9615R5.1KL2.0	38.1	35.6	39.6	0.75

Mfg. Part No.	Resistance Ohms +/-25%	Length (mm)	Terminal Spacing (mm)	Stock No.	Price Each 1-4	5-9	10-24
● 9605R1.7KL2.0	1.7 K	26.9	0.300	86H6854	76.21	37.58	29.37
● 9610R3.4KL2.0	3.4 K	39.6	12.7	86H6855	76.21	37.58	29.37
● 9615R5.1KL2.0	5.1 K	52.3	20.3	86H6856	76.21	37.58	29.37

(77683)

ANGULAR POSITION SENSOR

Just Added

CHERRY

- Patented non-contact angular position sensor
- Magnet/sensor orientation provides intrinsically linear output over 120° maximum travel without electrical compensation
- Fully encapsulated electronics to IEC 529 IP67
- Input voltage: 5V
- Input current: 10mA
- Output current: 25mA max
- Resolution: Analog

Mfg. Part No.	Output Linearity	Rotational Sensing Range	Stock No.	Price Each 1-14
● AN101101	±1.5	120° CCW	05M6309	24.84

(147140)

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(148833)

SOLID-STATE SPEED SENSORS

Just Added

CHERRY

- Senses motion of ferrous geartooth targets
- Capable of operating up to 150##UndefTag-786##C
- Mating connector Delphi 12162280
- Applications: Wheel speed, transmission speed, anti-lock braking systems

GS101201 GS101205

Mfg. Part No.	Description	Supply Voltage	Operating Temp. Range	Stock No.	Price Each 1-14
GS101205	Flange Mount Gear Tooth Sensor	5.0 – 30VDC	-40° - 150°C	34P4220	28.15
GS101201	Flange Mount Speed Sensor	5.0 – 24VDC	-40° - 125°C	23C6622	23.63

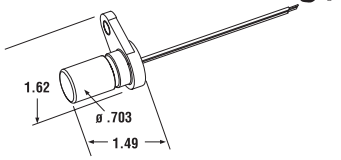
(147270)

SOLID-STATE SPEED SENSORS

RoHS Compliant Available

CHERRY

- Hall-Effect Technology with High Speed and Near-Zero Speed Capabilities
- Sense Rotation of Ferrous Target Such as Gearwheel, Sprocket or Chain
- Digital Sinking Output
- Maximum Supply Current: 6mA except Type SD100203: 17mA



GS101202

Mfg. part no. SD100203 provides two separate digital outputs for speed and direction. All except **mfg. part no. GS100701** provide additional circuit protection for immunity against electrical interference. **Mfg. part no. SD100203** includes 6″ 20AWG leads. **Mfg. part no. GS100101** meets all IEC requirements for heavy industrial environments.

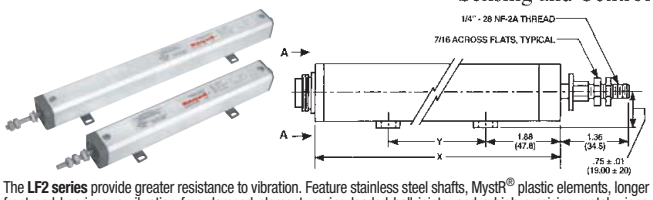
Mfg. Part No.	Description	Supply Voltage	Operating Temp. Range	Stock No.	Price Each 1-14
INDUSTRIAL-GRADE					
GS100101	M12-1 Stainless Steel Barrel	4.5 - 24VDC	-40° - 105°C	05M6387	51.14
COMMERCIAL-GRADE					
GS100502	M12-1 Stainless Steel Barrel	4.5 - 24VDC	-40° - 125°C	05M6388	27.82
GS100701	15/32″ Aluminum Barrel	4.5 - 24VDC	-40° - 125°C	95B6032	27.82
SD100203	M18-1 Speed and Direction Sensor	4.75 - 24VDC	-40° - 85°C	51M9021	52.64

(69350)

LF2 SERIES LINEAR POSITION TRANSDUCERS

RoHS Compliant Available

Honeywell
Sensing and Control



The **LF2 series** provide greater resistance to vibration. Feature stainless steel shafts, MystR® plastic elements, longer front-end bearings, a vibration-free damped element, spring-loaded ball joints, and a high-precision metal wiper. Vibration: 20g rms/0.75mm 5-2Hz. Total resistance: 5K Ohms. 0.1% independent linearity. Infinite resolution. Life: 1 billion operations. Backlash: .001″. Operating temperature: –65°C to 105°C (–85°F to 221°F).

Mfg. Part No.	Electrical Travel (Nominal)	Dimensions "X" (in.)	Dimensions "Y" (in)	Mechanical Travel in.	Mechanical Travel mm	Stock No.	Price 1-14
LF2S09N5KB6A	9″	12.19	310	9.10	231	19C7113	425.81
LF2S14N5KB6A	14″	17.19	437	14.10	358	19C7115	512.48
LF2S18N5KB6A	18″	21.19	538	18.12	460	10M8428	542.17

(60986)

Expert technical support

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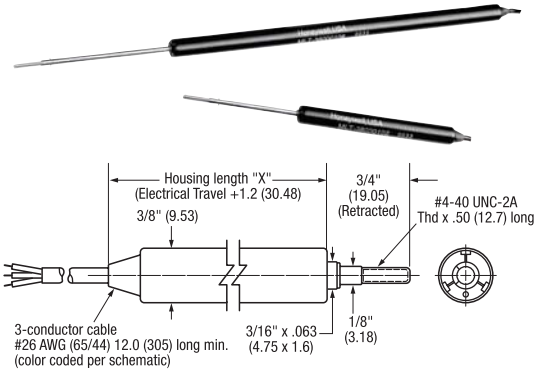
(148838)

MLT SERIES LINEAR POSITION TRANSDUCERS

RoHS Compliant Available

Honeywell
Sensing and Control



- Anodized Extruded Aluminum Housing
- 0.375″ Diameter
- Stainless Steel Shaft
- Absolute Continuous Measurement
- 4-40 Thread Shaft
- Operating Temperature: -40°C to +80°C (-40°F to +176°F)

Rugged enough to withstand the hostile environment of the factory, the **MLT series** linear position transducers are small in diameter. By using a proprietary dual wiper, internal ball joint and the MystR® conductive plastic film, the **MLT series** transducers provide usable output at high vibration levels for long periods of time. The use of precious metal wipers further enhances reliability. V max = 30V, I max = 100mA, Ci = 0, µF, Li = 0 mH. Intrinsically safe for Class I, II and III Division 1, Groups A, B, C, D, E, F, and G for Hazardous (indoor/outdoor) NEMA 4 locations.

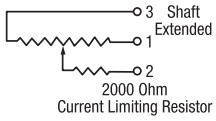
Mfg. Part No.	Electrical Travel (in.)	Res. (Ohms)	Linearity (%)	Housing Length ″X″ (in.)	Wt. (g)	Stock No.	Price Each 1-14
MLT0R5N0750F5C	0.5	750	1	1.7	11	49H7056	255.44
MLT002N3000B5C	2	3000	0.1	3.2	20	07H4154	294.54
MLT004N6000B5C	4	6000	0.1	5.2	28	81H2504	296.22
MLT006N9000B5C	6	9000	0.1	7.2	31	10M8431	301.26

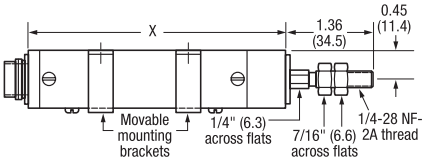
(77660)

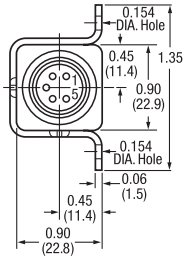
SLF SERIES LINEAR POSITION TRANSDUCERS

RoHS Compliant Available

Honeywell
Sensing and Control







- 0.081″ Thick Housing with 0.25″ Shaft
- ¼ -28 Thread Shaft
- Operating Temperature: -65° to +105°C

SLF series transducers are frequently used for measuring linear position or displacement up to 6″ on a wide variety of manufacturing and process equipment. The mechanical design of the unit's front and rear bearings, anodized extruded aluminum housing, stainless steel shaft and precious metal wipers are suitable for a factory's harsh environment. Based on the proprietary MystR® conductive plastic film, it provides a high resolution, absolute position measurement without external signal conditioners. V max. = 30V, I max. = 100mA, Ci = 0, µF, Li = 0 mH. Instrinsically Safe for Class I, II, and III Division I, Groups A, B, C D, E, F, and G for Hazardous (indoor/outdoor) NEMA 4 locations.

Mfg. Part No.	Electrical Travel (in.)	Res. (Ohms)	Mech-anical Travel (in.)	Linearity (%)	Housing Length ″X″ (in.)	Stock No.	Price Each
SLF01N1500F6A	1	1500	1.2	1	4.05	67H4215	306.70
SLF01N1500B6A	1	1500	1.2	0.1	4.05	81H2506	314.25
SLF02N3000F6A	2	3000	2.2	1	5.05	10M5261	315.59
SLF02N3000B6A	2	3000	2.2	0.1	5.05	81H2507	382.57
SLF04N6000F6A	4	6000	4.15	1	6.95	10M8451	339.34
SLF04N6000B6A	4	6000	4.15	0.1	6.95	03H3356	405.15
SLF06N9000F6A	6	9000	6.15	1	8.95	94C2857	348.25
SLF06N9000B6A	6	9000	6.15	0.1	8.95	06H0953	406.03

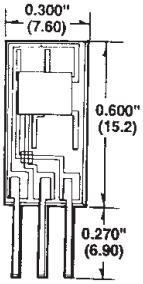
(77664)

SENSORS – POSITION & ENCODING

91SS SERIES LINEAR HALL-EFFECT TRANSDUCER

Honeywell
Sensing and Control

RoHS Compliant Available



Linear output transducer operates by magnetic field. Thin ceramic package. Supply voltage: 8-16VDC. Supply current: 19mA. Sensitivity at 12VDC: 7.5mV/gauss at 25°C. Gauss range: -400 to +400. 1.5% linearity.

Mfg. Part No.	Stock No.	Price Each 1-49	50-99	100-249	250-499
● 91SS12-2	05M3033	12.99	11.82	11.01	10.37

(5088)

103SR AND SR4 SERIES HALL-EFFECT SENSORS

RoHS Compliant Available

Honeywell
Sensing and Control

Adjustable mounting, threaded aluminum housing contains Hall-effect sensor operated by proximity to external magnet. Sealed housing meets NEMA enclosure types 3, 3R, 3S, 4, 4X, 12, and 13. 24-gauge, 6″ stranded, color-coded lead wires at termination. Mfg. part nos. with **"2"** suffix are supplied with one meter, 22AWG, PVC jacketed cable. **Mfg. part nos. 103SR13** are digital current sinking output. **Mfg. part nos. 103SR11** and **103SR12** are current sourcing. Magnetics type for **mfg. part nos. 103SR:** unipolar. Dimensions: 15/32-32NS x 1″L. Operating temperature range: –40°C to +100°C. *Magnets available on page 1857.*

Mfg. Part No.	Supply Voltage	Supply Current	Voltage Output	Stock No.	Price Each 1-14
● 103SR11A-1	4.5-5.5VDC	4mA	Vs-1.5VDC	23F2233	28.95
● 103SR12A-1	6-24VDC	10.0mA	Vs-1.5VDC	05M2281	27.18
● 103SR12A-2	6-24VDC	10.0mA	Vs-1.5VDC	05M2282	30.16
● 103SR13A-1	4.5-24VDC	10.0mA	0.4VDC	14M6607	25.62
● 103SR13A-2	4.5-24VDC	10.0mA	0.4VDC	50F5281	31.54

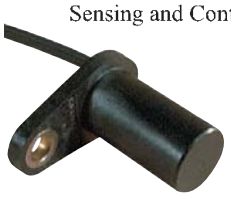
(3486)

GT SERIES HALL-EFFECT GEAR-TOOTH SENSOR

RoHS Compliant Available

Honeywell
Sensing and Control

- EMI Resistant
- Fast Operating Speed: Over 100kHz



Mfg. part no. 1GT101DC gear-tooth sensor uses a magnetically-biased, Hall-effect integrated circuit to accurately sense movement of ferrous metal targets. Units will function from a 4.5 to 24VDC power supply and have reverse polarity protection. Current sinking output. Dimensions: 0.70W x 1.43″D.

Mfg. Part No.	Stock No.	Price Each 1-49	50-99	100-499	500+
● 1GT101DC	92F3009	25.68	21.72	19.23	17.31

(3457)

BIPOLAR LATCH HALL-EFFECT MAGNETIC POSITION SENSORS

Just Added

Honeywell

SOT-23

TO-92

Features:
- Enhanced sensitivity
- Miniature package size
- Low power consumption: 3 V operation
- Low cost
- Built-in reverse voltage protection
- Robust design: will operate up to 150°C [302°F]

Application:

Transportation:
- Speed and RPM sensing
- Motor and fan control
- Convertible roof position
- Automotive transmission position

Industrial:
- Flow-rate sensing
- Robotics control

Medical:
- Medication dispense control

Specifications:
- Operating temperature: -40 to 150°C
- Supply current: 6mA max.

Mfg. Part No.	Supply Voltage	Package	Stock No.	Price Each 1-9
SS361RT	3 to 12 V	SOT-23	11R0676	1.26
SS461R	3 to 18 V	TO-92	11R0677	1.18

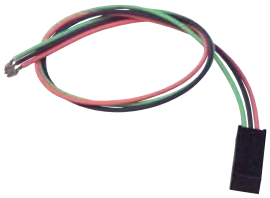
(148726)

SR13/SR15 SERIES HALL-EFFECT POSITION SENSORS

RoHS Compliant Available

Honeywell
Sensing and Control

SR13C–A1



SR15C–A3

- Snap-In or Flat Mount Packages
- Digital Output (Current Sinking)
- Operating Temperature: -40°C to +150°C
- Temperature Compensated Magnetics
- 24 AWG Radox Wire Leads

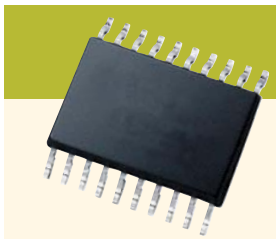
SR13 and **SR15 series** position sensors are not susceptible to common occurrences of humidity, vibration or dust contamination yet provide easy installation. Devices can be installed without additional hardware, using the pre-leaded snap-in or flat-pack housings. Sensors utilize time-proven **SS400 series** position sensors, which have a thermally balanced integrated Hall–effect circuit providing predictable performance over a wide operating temperature range. Snap-in mount feature accepts a panel thickness up to 0.135″. Supply voltage: 3.8–30VDC. Supply current: 13mA. Output voltage: 400mV. Sinking current: 20mA continuous, 50mA cycled. Dimensions: 0.80L x 0.30W x 0.20″D. *Magnets available on page 1857.*

SPECIFICATIONS

Mfg. Part No.	Magnetics	Gauss Level @ 25°C Max. OP	Min. RL	Min. DIF
● SR13C-A1	Unipolar	180	75	25
● SR13R-A1	Latching	85	–85	50

Mfg. Part No.	Lead Length	Mounting Style	Stock No.	Price Each 1-24	25-49	50-99	100-249
● SR13C-A1	6.0″	Snap-in	05M1292	5.57	5.30	5.01	4.74
● SR13R-A1	6.0″	Snap-in	95B0184	6.91	5.97	5.41	4.76
● SR15C-A3	10.0″	Flat Pack	05M1293	3.89	3.36	3.05	2.68

(51471)



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(148846)

4AV SERIES HALL-EFFECT VANE SENSORS

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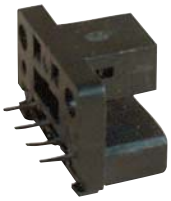
RoHS Compliant Available



Vane-operated sensors feature dual digital current sinking outputs and closely controlled differential to predict pulse width. Sensors also offer transient protection. **Mfg. part no. 4AV16** has 24AWG XLPE 7.45″ (189.2mm) lead wires; **mfg. part no. 4AV18** has 24AWG XLPE 18.15″ (461mm) lead wires; **mfg. part no. 4AV20** is dual output and has 4-pin in-line PCB terminals. Operating temperature range: –40°C to +125°C. Dimensions: 0.43H x 0.52W x 0.75″D.

Mfg. Part No.	Supply Voltage (VDC)	Supply Current (mA)	Output Voltage (VDC)	Termination	Stock No.	Price Each 1-24	25-49	50-99
4AV16F	4.5-24	18.5	0.4	7.45″ Wire Lead	12M6713	28.22	26.79	25.37
4AV18F	4.5-24	18.5	0.4	18.15″ Wire Lead	10M8485	25.61	21.11	19.09

(3480)

SS4/SS5 SERIES HALL-EFFECT SENSORS

Honeywell
Sensing and Control

RoHS Compliant Available

Just Added

- Operating speed: 0 to over 100kHz
- Supply voltage: 3.8-24VDC
- Output voltage: 0.4V max
- SOT89 package
- Built-in timing circuit

SS5

Digital position sensors have current sink output. Feature temperature compensation. **SS4 series** dimensions: 0.160 × 0.118″ (4.06 × 3.00). **SS5 series** are SOT89 packages. **SS42R series** features digital dual complementary sink/source outputs. Operate/release points are trimmed for zero symmetry. Reverse voltage polarity protection for full supply range. Operate temp. range: -40 to +105° C. **SS421 series** feature an operate temp. range of -40 to +105° C. Bipolar operation for easy RPM counting using ring magnets. Built-in timing circuit greatly simplifies and reduces the cost of PC board design. Speed trip point adjustable with external resistor and capacitor. ″L″ version is active low, ″H″ version is active high.

MINIATURE DIGITAL SENSORS

Mfg. Part No.	Magnetics	Supply Current (mA)	Gauss Level @ 25°C Max. OP	Min. RL	MIn. DIF.	Stock No.	Price Each 1-14
SS41	Bipolar	8.7	150	-140	50	73K1376	0.91
SS40A	Bipolar	6.5	150	-110	90	71J7819	0.95
SS411A	Bipolar	10	60	-60	15	73K4040	1.95
SS443A	Unipolar	10	180	75	25	73K1377	2.06
SS441A	Unipolar	10	115	20	20	93F6654	1.00
SS461A	Latch	10	85	-85	50	93F9228	1.00
SS466A	Latch	10	180	-180	200	73K4041	0.87
COMPLEMENTARY OUTPUT							
SS42R	Latch	11	185	-185	200	01J0382	0.96
SS421L	Bipolar	15	250	-250	50	05M1363	2.69
SS421H	Bipolar	15	250	-250	50	05M1362	2.68
SURFACE MOUNT DIGITAL SENSORS (SOT 89)							
SS541AT	Unipolar	10	115	20	20	86C1047	0.92
SS543AT	Unipolar	10	180	75	25	72C8940	0.92
SS549AT	Unipolar	10	390	235	30	86C1048	1.79

MINIATURE LINEAR SENSORS

Mfg. Part No.	Supply Voltage (VDC)	Supply Current (mA)	Sensitivity* MV/Gauss	Stock No.	Price Each 1-49
SS49	4-10	4	0.9	95F5207	1.48
SS49E	3-6.5	6	1.4	09J1786	1.07
SS59ET	3-6.5	6	1.4	81H1715	1.79
SS495A	4.5-10.5	7	3.125 ± 0.125	73K4042	1.37
SS495A1	4.5-10.5	7	3.125 ± 0.094	73K4043	3.42
SS495A2	4.5-10.5	7	3.125 ± 0.156	73K1378	2.32
SS496A1	4.5-10.5	7	2.50 ± 0.075	73K1379	1.75
SS496A	4.5-10.5	7	2.50 ± 0.100	48F2831	2.76

*Nominal @ 5.0VDC supply
(5179)

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(148886)

SS2/2SS SERIES ULTRA-SENSITIVE MAGNETICALLY OPERATED SENSORS

RoHS Compliant Available

Honeywell
Sensing and Control

2SS52M SS2

Feature magneto-resistive sensor with digital current sink output. Can be operated with either north or south magnetic pole. 3-pin, in-line PC board terminals on 0.100″ (2.54) mounting centers except **mfg. part no. 2SS52M**, which is 0.050″(1.27). For **mfg. part nos. SS21** and **SS22** output voltage: 0.4V max. Typical OP @ 25°C: 15 gauss. Typical RL @ 25°C: 11 gauss. Typical differential @ 25°C: 4. Gauss 0.3″ × 0.3″ (7.62 × 7.62), with epoxy chip protection. **Mfg. part no. 2SS52M**: 0.18″ × 0.18″ (4.57 × 4.57) plastic package.

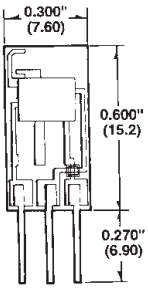
Mfg. Part No.	Operate Gauss	Supply Voltage	Supply Current	Stock No.	Price Each 1-49	50-99
SS21PE	15	4.5-5.5VDC	10mA	05M1360	9.58	8.72
SS22PE	15	6-24VDC	13.5mA	05M1361	9.56	8.71
2SS52M	15	3.8-30VDC	6mA	48F2833	2.56	2.43

(5178)

SS94A SERIES LINEAR HALL-EFFECT TRANSDUCERS

Honeywell
Sensing and Control

RoHS Compliant Available



Operated by a magnetic field, the output voltage varies proportionally to the field strength. All sensors feature temperature compensation circuitry. **Mfg. part no. SS94A2** features silver back for improved noise immunity. Gauss range of –500 to +500 except **mfg. part no. SS94A1F** at -100 to +100. **Mfg. part no. SS94A1F** is high sensitivity.

Mfg. Part No.	Supply VDC	Supply mA	MV/Gauss Output @ 25°C*	Linearity % of Span	Stock No.	Price Each 1-24	25-49
SS94A1	6.6-12.6	30.0	5.000	1.5% max	05M1372	17.67	16.78
SS94A1B	4.5-8.0	17.5	1.875		05M1373	17.16	15.62
SS94A1F	6.6-12.6	30.0	25.000		05M1376	19.90	18.12
SS94A2	6.6-12.6	30.0	5.000		50F5182	20.58	18.74

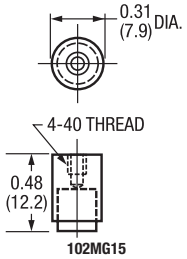
*Nominal at 8VDC supply *except* **SS94A1B** at 5VDC
(5087)

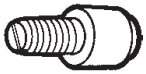
MG SERIES BAR MAGNETS

Just Added

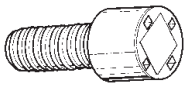
RoHS Compliant Available

Honeywell
Sensing and Control





102 MG11 (8-32 Aluminum Thread)



106 MG10 (¼-20 Plastic Thread)

101 MG7

Bar magnets are ideal for sensors with unipolar magnetic characteristics. Gauss level given is @ 25°C. Other threaded bushing, bar, ring magnets, and ring magnets with alternate North and South poles for use with bipolar magnetic sensors are available; *go online or call.*

Mfg. Part No.	Dimensions Length	Outside Diameter	Gauss Level @ 0.050″	0.100″	Stock No.	Price 1-24
101MG7	0.25″ (6.35)	0.25″ (6.35)	755	480	23F2226	4.69
102MG11	0.67″ (17.02)	0.31″ (7.87)	755	480	23F2229	7.46
102MG11BP	0.67″ (17.02)	0.31″ (7.87)	755	470	39B4198	7.10
102MG15	0.48″ (12.2)	0.31″ (7.9)	755	480	23F2230	6.47
103MG5	0.04″ (1.01)	0.078″ (1.98)	225	100	23F2429	0.87
106MG10	0.93″ (23.62)	0.40″ (10.16)	1600	940	23F2237	9.71

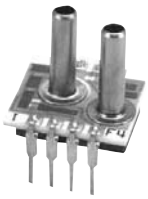
(5177)

SENSORS – PRESSURE

NPC1210 SERIES NOVASENSOR MEDIUM/LOW PRESSURE SENSORS

GE Sensing

RoHS Compliant Available



Features:
- Temperature compensated: 32°F to 140°F (0°C to 60°C)
- PCB mountable package, DIP configuration, solid state reliability
- Cost effective solution for applications requiring calibrated performance over a wide temperature range

Specifications:
- Full scale output: 100mV
- Operating temperature: -40°F to 257°F (-40°C to 125°C)

LOW PRESSURE SENSORS

Mfg. Part No.	Pressure Range (in-H_2O)	Pressure Measuring Type	Configuration	Stock No.	Price Each 1-4
● NPC-1210-10WD-3L	10	Differential	Lead Down/Long Tube	46M2625	43.62
● NPC-1210-10WD-3S	10	Differential	Lead Down/Short Tube	46M2626	37.07

MEDIUM PRESSURE SENSORS

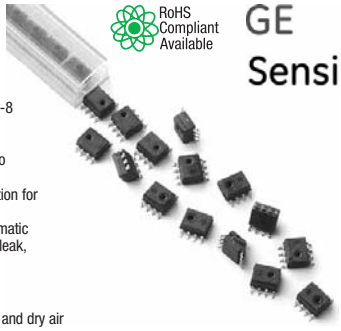
Mfg. Part No.	Pressure Range (psi)	Pressure Measuring Type	Configuration	Stock No.	Price Each 1-4
● NPC-1210-015D-3L	15	Differential	Lead Down/Long Tube	46M2620	23.67
● NPC-1210-015D-3S	15	Differential	Lead Down/Short Tube	46M2621	23.67
● NPC-1210-015G-3L	15	Gauge	Lead Down/Long Tube	46M2623	23.67
● NPC-1210-015G-3S	15	Gauge	Lead Down/Short Tube	46M2624	26.33
● NPC-1210-100D-3L	100	Differential	Lead Down/Long Tube	46M2627	23.67
● NPC-1210-100D-3S	100	Differential	Lead Down/Short Tube	46M2628	23.67
● NPC-1210-100G-3L	100	Gauge	Lead Down/Long Tube	46M2629	23.67
● NPC-1210-100G-3S	100	Gauge	Lead Down/Short Tube	46M2630	23.67

(94402)

NPP-301 SERIES NOVASENSOR SURFACE MOUNT PRESSURE SENSORS

RoHS Compliant Available

GE Sensing



Features:
- Ultra-small Silicon Fusion Bonded (SFB) SO-8 surface mount package
- Non-ported
- Wide operating temperature range: -40°F to 257°F (-40°C to 125°C)
- Four element Wheatstone bridge configuration for circuit design flexibility
- Wide range of applications, including pneumatic controls, altimeters and barometers, cable leak, detection, portable gauges

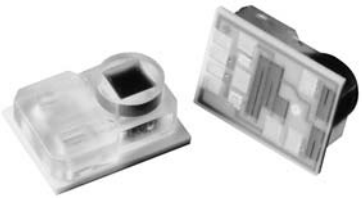
Specifications:
- 10VDC maximum input excitation
- Compatible with most non-corrosive gases and dry air

Mfg. Part No.	Pressure Range (psi)	Pressure Measuring Type	Stock No.	Price Each 1-4
● NPP-301A-100AT	0 to 15	Absolute	46M2631	20.52
● NPP-301A-200AT	0 to 30	Absolute	46M2632	25.18
● NPP-301A-700AT	0 to 100	Absolute	46M2633	20.52

(94401)

NPC-100 SERIES NOVASENSOR DISPOSABLE MEDICAL SENSOR

GE Sensing



Features:
- Specifically designed for use in disposable medical applications: Instrumentation, blood pressure measurement, infusion pumps, kidney dialysis machines
- Solid state, high reliability
- Factory filled with dielectric gel
- Temperature compensated

Specifications:
- Calibrated for 6VDC input excitation
- Polycarbonate gel tube interface material
- Operating temperature: 59°F to 104°F
- Sold as cut tape and reel

Mfg. Part No.	Pressure Range (mmHg)	Stock No.	Price Each 1-4
NPC-100T	-30 to 300	46M2619	23.17

(94400)

DC SERIES ULTRA-LOW PRESSURE SENSORS

RoHS Compliant Available

Honeywell Sensing and Control

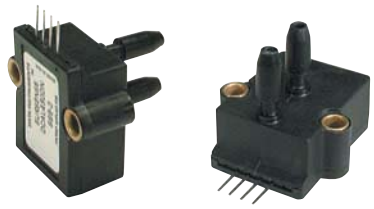


Fig. 1

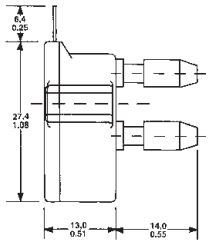


Fig. 1

- Silicon Micromachined Sensing Element
- -25°C to +85°C Operating Temperature
- Material in Contact with Media: Silicon, Glass-Filled Nylon and Alumina Ceramic
- Zero- and Span-Calibrated, Temperature Compensated
- Port size: 0.19″ barb

Sursense™ ultra-low pressure sensors incorporate a proprietary technology designed using 2 sensing elements to reduce output offset or common mode errors to ensure the highest possible accuracy. They feature thermal, offset and full-scale calibration, long-term stability and low sensitivity to position.

DC ULTRA-LOW PRESSURE WITH AMPLIFIED OUTPUT AND SURSENSE™ CALIBRATION

Mfg. Part No.	Pressure Range	Reference	Zero Output	Fig.	Stock No.	Price Each 1-24
● DC001NDC4	0-1″ H_2O	Differential	2.25VDC	1	20M8049	119.93
● DC001NGC4	0-1″ H_2O	Gage	0.25VDC	1	20M8051	116.80
● DC005NDC4	0-5″ H_2O	Differential	2.25VDC	1	20M8054	109.26
● DC010NDC4	0-10″ H_2O	Differential	2.25VDC	1	20M8055	108.33
● DC001NDR5	0-1″ H_2O	Differential	3.5VDC	1	20M8050	127.73
● DC001NGR5	0-1″ H_2O	Gage	1.0VDC	1	20M8052	126.85

*Regulated output

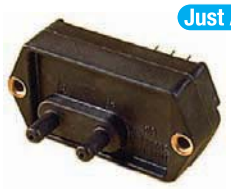
(60990)

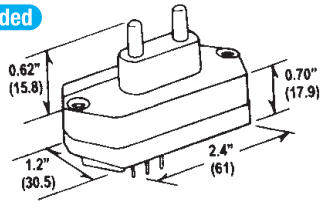
140PC AND 160PC SERIES PRESSURE SENSORS

RoHS Compliant Available

Honeywell Sensing and Control

Just Added





140PC series sensors are for use in applications where high accuracy is desired. Supply current is 20mA max. Full-scale output: 5V. Shock specs meet MIL-STD-202, Method 213. Temperature range: –40°C to 85°C. **160PC series** pressure sensors are for use in low-pressure measurement applications. Recommended supply voltage: 8VDC. Input current: 8mA. Differential styles have two ports that allow connection to two pressure sources, and differential style functions same as gage when Port 1 is left open to atmospheric pressure. *Single port* **142PC** gauge types may be *ordered by substituting a* ″**G**″ *for the* **suffix** ″**D**.″ Product to be used for service parts only. Not to be considered for new designs or applications.

Mfg. Part No.	Pressure Range	Measurement	Stock No.	Price Each 1-24
● 142PC01D	0-1 PSI	Differential	51F2590	103.21
● 142PC05D	0-5 PSI	Differential	20M8994	124.83
● 142PC15D	0-15 PSI	Differential	51F2591	172.07
● 142PC15A	0-15 PSI	Absolute	20M8995	150.35
● 142PC30D	0-30 PSI	Differential	20M8998	172.07
● 142PC30A	0-30 PSI	Absolute	20M8997	125.52
● 143PC03D	±3 PSI	Differential	51F2595	137.65
● 162PC01D	0 - 27.68 in H20	Differential	20M9454	293.06
● 163PC01D48	-20-120cm H_2O	Differential	20M9484	132.87
● 163PC01D36	-5-5″ H_2O	Differential	20M9483	210.49
● 163PC01D75	-2.5-2.5″ H_2O	Differential	20M9485	197.51
● 164PC01D76	0-5″ H_2O	Differential	20M9499	210.49
● 164PC01D37	0-10″ H_2O	Differential	20M9498	210.49

(5136)

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

(148881)

24PC SERIES NON-TEMPERATURE COMPENSATED MINIATURE PRESSURE SENSORS

Just Added

RoHS Compliant Available

Honeywell
Sensing and Control

- Differential and Gage Pressure Measurement
- Miniature Package
- Silicon Piezoresistive Sensor Chip
- Can be Used to Measure with Vacuum or Positive Pressure

Differential Gage

Contain straight port, non-compensated circuitry and fluorosilicone seals. Operating temperature: –40°C to +85°C. 16mA constant excitation current significantly reduces sensitivity shift over temperature range. Recommended excitation voltage: 10VDC ratiometric (16VDC max). Dimensions: Differential: 1.35L x 0.50″W; Gage: 0.86L x 0.50″W. 4-pin SIP termination 0.600″ leads. Sensors are available with threaded, barbed, luer, and needle pressure port options. Other seal materials for media compatibility are available. DIP termination option is available.

Mfg. Part No.	Pressure Range	Measure-ment	Full Scale Output	Sensitivity (mV/psi)	Stock No.	Price Each 1-14
24PCAFA6D	0-1 psi	Differential	45mV	45	16F3194	21.08
24PCAFA6G	0-1 psi	Gage/Vac	45mV	45	16F3193	20.55
24PCBFA6D	0-5 psi	Differential	115mV	23	16F3196	25.11
24PCBFA6G	0-5 psi	Gage/Vac	115mV	23	16F3195	19.78
24PCDFA6G	0-30 psi	Gage/Vac	330mV	11	16F3199	19.67
24PCFFA6G	0-100 psi	Gage/Vac	225mV	2.25	16F3201	22.22
24PCDFA6D	0-30 psi	Differential	115mV	11	93B6606	28.49
24PCEFA6D	0.5-20 psi	Diff./Gage/Vac	35mV	70	86C4627	44.80
24PCCFA6G	0-15 psi	Gage/Vac	225mV	15	16F3197	20.25
24PCFFA6D	0-100 psi	Differential	212mV	2.25	99B1851	40.40
24PCGFA6D	0-250 psi	Differential	212mV	0.85	86C4632	40.40
24PCGFA6G	0-250 psi	Gage	212mV	0.85	93B0403	22.22

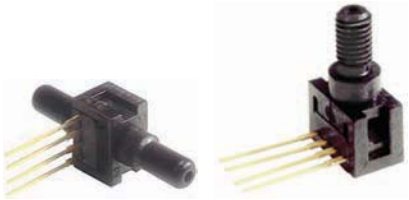
(5168)

26PC SERIES TEMPERATURE COMPENSATED PRESSURE SENSORS

RoHS Compliant Available

Honeywell
Sensing and Control

- Differential and Gage Pressure Measurement
- Miniature Package
- Silicon Piezoresistive Sensor Chip
- Can be Used to Measure Vacuum or Positive Pressure
- Temperature Compensated for Interchangeability from 0°C to 50°C



Differential Gage

Contain straight port, compensated circuitry and fluorosilicone seals. Temperature compensated from 0°C to +58°C. Null and full-scale output are calibrated. .600″ long 4-pin SIP termination. Operating temperature: –40°C to +85°C. Recommended excitation voltage: 10VDC ratiometric (16VDC max.). Sensors are available with threaded, barbed, luer, and needle pressure port options. Other seal materials for media compatability are available. DIP termination option is available.

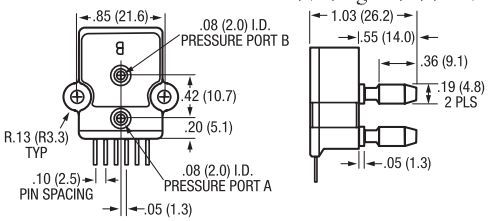
Mfg. Part No.	Pressure Range	Measurement	Full Scale Output	Sensitivity (mV/psi)	Stock No.	Price Each 1-24
26PCAFA6D	0 -1 psi	Differential	16.7mV	16.7	52F7256	30.04
26PCAFA6G	0 -1psi	Gage/Vac	16.7mV	16.7	52F7257	30.04
26PCBFA6D	0 - 5 psi	Differential	50mV	10.0	93B0356	30.36
26PCBFA6G	0 - 5 psi	Gage/Vac	50mV	10.0	39B7194	30.49
26PCCFA6D	0 -15 psi	Differential	100mV	6.67	16F3198	29.19
26PCCFA6G	0 -15 psi	Gage/Vac	100mV	6.67	16F3206	22.90
26PCDFA6D	0 -30 psi	Differential	100mV	3.33	16F3209	37.27
26PCFFA6G	0 -100 psi	Gage/Vac	100mV	1.0	16F3210	37.27

(5169)

ASCX SERIES SIGNAL CONDITIONED PRESSURE SENSORS

RoHS Compliant Available

Honeywell
Sensing and Control



- Supply Voltage: +4.5 to 16VDC
- Response Time: 100msc
- Operating Temperature: -25°C to +105°C
- SIP Package

➤ CONTINUED ➤

ASCX SERIES SIGNAL CONDITIONED PRESSURE SENSORS (CONT.)

Provide a cost-effective solution for pressure applications that require high-accuracy over a wide temperature range. Feature an integrated circuit sensor element and laser-trimmed thick film ceramic housed in a compact nylon case. All devices are calibrated for span to within +/-% (typically +/-0.2%) of FSO. Requires very low quiescent current compared to other signal conditioned pressure sensors, making these devices best for battery powered applications. Also ideal for medical equipment, computer peripherals and pneumatic control applications due to their low noise and excellent temperature compensation.

Mfg. Part No.	Pressure	Pressure Type	Sensitivity	Stock No.	Price Each 1-24
ASCX01DN	0-1 Psi	Differential/Gage	4.5 V/psi	10M5131	78.39
ASCX05DN	0-5 Psi	Differential/Gage	0.9 V/psi	10M5132	117.01
ASCX15AN	0-15 Psi	Absolute	0.3 V/psi	10M5134	84.00
ASCX15DN	0-15 Psi	Differential/Gage	0.3 V/psi	78H1323	102.53
ASCX30DN	0-30 Psi	Differential/Gage	0.15 V/psi	10M5136	80.71
ASCX100DN	0-100 Psi	Differential/Gage	45 mV/psi	10M9191	76.26
ASCX150AN	0-150 Psi	Absolute	30 mV/psi	78H1324	123.04

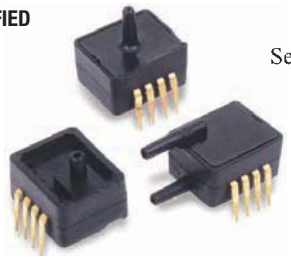
(80248)

ASDX SERIES AMPLIFIED PRESSURE SENSORS

Honeywell
Sensing and Control

RoHS Compliant Available

- Supply voltage: 4.75 to 5.25VDC (not reverse polarity protected)
- Response time: 8ms
- Operating temperature: -20°C to 1055°C
- DIP package



Amplified version of the **SDX series** offering a slightly larger footprint and a 4.0V span output. Fully calibrated and temperature compensated using an on-board ASIC. Accurate to within +/- 2.0%. Characterized for operation from a single 5V supply. Ideal for medical instrumentation, barometry, HVAC controls and pneumatic control applications.

0.5 - 4.5VDC OUTPUT

Mfg. Part No.	Pressure Range	Port Style	Stock No.	Price Each Each
ASDX001G24R	0-1 Psi	Straight	78H2272	20.33
ASDX001D44R	0-1 Psi	Straight	78H2271	29.95
ASDX005G24R	0-5 Psi	Straight	78H2275	30.65
ASDX005D44R	0-5 Psi	Straight	78H2274	34.42
ASDX015A24R	0-15 Psi	Straight	78H2277	44.04
ASDX030A24R	0-30 Psi	Straight	78H2282	31.11
ASDX030G24R	0-30 Psi	Straight	78H2285	31.11
ASDX100A24R	0-100 Psi	Straight	78H2287	30.70
ASDX100G24R	0-100 Psi	Straight	78H2290	30.86
ASDX100D44R	0-100 Psi	Straight	78H2289	30.65
2.5 +/- 2VDC OUTPUT				
ASDX001D44D	0-1 Psi	Straight	78H2270	27.19

(78387)

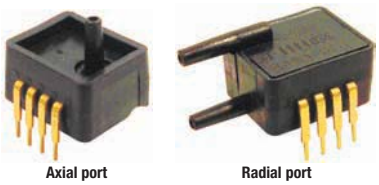
ASDX/ASDX-DO SERIES PLASTIC SILICON PRESSURE SENSORS

Just Added

Honeywell

ASDX Series Features:

- Ratiometric 12-bit analog output
- Precision ASIC conditioning and temperature compensated over 0 °C to 85 °C [32 °F to 185 °F] temperature range
- Low operating voltage
- Absolute, differential and gage types
- Pressure ranges from 1 psi to 5 psi
- Standard calibrations in psi, mbar, bar, kPa
- Total error band of ±2.0% of full scale span maximum



Axial port Radial port

ASDX-DO Series Features:

- I2C or SPI compatible 14-bit digital output
- Precision ASIC conditioning and temperature compensated over 0 °C to 85 °C [32 °F to 185 °F] temperature range
- Low operating voltage
- Absolute, differential and gage types
- Pressure ranges from 1 psi to 5 psi
- Standard calibrations in psi, mbar, bar, kPa
- Total error band of ±2.0% of full scale span maximum

ASDX SEIRES ANALOG OUTPUTS

Mfg. Part No.	Pressure Range	Pressure Measuring Type	Port Style	Stock No.	Price Each 1-9
ASDXAVX001PGAA5	0-1 psi	Gage	Axial	11R0658	25.79
ASDXAVX005PGAA5	0-5 psi	Gage	Axial	11R0660	25.79
ASDXRRX001PDAA5	0-1 psi	Differential	Radial	11R0662	25.79
ASDXRRX001PGAA5	0-1 psi	Gage	Radial	11R0664	25.79
ASDXRRX005PDAA5	0-5 psi	Differential	Radial	11R0666	25.79
ASDXRRX005PGAA5	0-5 psi	Gage	Radial	11R0668	25.79

➤ CONTINUED ➤

SENSORS – PRESSURE

ASDX/ASDX-DO SERIES PLASTIC SILICON PRESSURE SENSORS (CONT.)

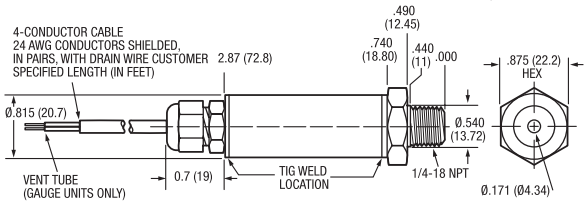
ASDX-DO SEIRES DIGITAL OUTPUTS

Mfg. Part No.	Pressure Range	Pressure Measuring Type	Port Style	Stock No.	Price Each 1-9
ASDXAVX001PG2A5	0-1 psi	Gage	Axial	11R0659	25.79
ASDXAVX005PG2A5	0-5 psi	Gage	Axial	11R0661	25.79
ASDXRRX001PD2A5	0-1 psi	Differential	Radial	11R0663	25.79
ASDXRRX001PG2A5	0-1 psi	Gage	Radial	11R0665	25.79
ASDXRRX005PD2A5	0-5 psi	Differential	Radial	11R0667	25.79
ASDXRRX005PG2A5	0-5 psi	Gage	Radial	11R0669	25.79

(148727)

SPT SERIES STAINLESS STEEL PRESSURE SENSORS

Honeywell
Sensing and Control



- Supply Voltage: +12 to +30VDC
- Response Time: 100msec
- Operating Temperature: -40°C to +125°C
- Pressure Connection: Steel 1/4-18 NPT Port
- Cable Length: 2' Standard (Pigtail Cable Connection)

Designed for pressure applications that involve measurement of hostile media in harsh environments. Will accommodate any media that will not adversely attack 304 or 316 stainless steel wetted parts. Calibrated and temperature compensated. Feature NEMA 4 design. Ideal for industrial automation and flow control, pressure instrumentation, hydraulic systems and process control applications.

Mfg. Part No.	Pressure	Pressure Type	Output Type	Stock No.	Price Each 1-24
SPT4V0005PG5W02	0-5 Psi	Gage	1-5VDC	78H1506	280.69
SPT4V0015PG5W02	0-15 Psi	Gage	1-5VDC	78H1507	274.67
SPT4V0030PG5W02	0-30 Psi	Gage	1-5VDC	78H1508	269.91
SPT4V0100PG5W02	0-100 Psi	Gage	1-5VDC	78H1509	279.37
SPT4V0300PG5W02	0-300 Psi	Gage	1-5VDC	78H1510	281.53
SPT4V0500PG5W02	0-500 Psi	Gage	1-5VDC	78H1511	274.14
SPT4V1000PS5W02	0-1000 Psi	Sealed Gage	1-5VDC	78H1512	136.28
SPT4V2000PS5W02	0-2000 Psi	Sealed Gage	1-5VDC	78H1513	240.02
SPT4V3000PS5W02	0-3000 Psi	Sealed Gage	1-5VDC	78H1514	156.31
SPT4V5000PS5W02	0-5000 Psi	Sealed Gage	1-5VDC	78H1515	236.23

(80260)

ST SERIES PRESSURE TRANSDUCERS

Honeywell
Sensing and Control

The **ST series** are temperature compensated (-40°C to 100°C), calibrated, and have amplified outputs from a silicon sensing element. Applications include: pneumatic equipment, air compressors, air filtration monitoring, and industrial controls. Less than 500 microseconds response time. Port size: ⅛ NPT, stainless steel (¼ NPT and brass port options.) Pressure ranges down to 5 psi are available. Reverse polarity and EMI/RFI protection. Meet IEC enclosure IP65 classifications. Accuracy: ±1.0% FSO. Operating temperature: -40°C to 100°C (-40°F to 212°F). Connection: Packard Electric Metri-Pack™ Connector (**mfg. part no. 3685302**) 3M Leads.

Mfg. Part No.	Pressure Range (PSI)	Zero Output	Full Scale Output	Excitation	Stock No.	Price Each 1-4
ST100PG1SPCF	100	0.5VDC	4.5VDC*	5VDC	30C4631	291.98
ST100PG1SPGF	100	4mA	20mA	9.5-35VDC	30C4632	290.38
ST250PG1SPCF	250	0.5VDC	4.5VDC*	5VDC	30C4634	216.63
ST250PG1SPGF	250	4mA	20mA	9.5-35VDC	30C4635	316.70
ST250PG1SPRF	250	0.5VDC	4.5VDC	7-35VDC	30C4636	185.19

* = Ratiometric Output

CONNECTION

Mfg. Part No.	Description	Stock No.	Price Each 1-14
● 3685302	Packard Electric Female Metri-Pack™ Connector with 3m Leads	72M5174	84.81

(60983)

MLH SERIES ALL METAL PRESSURE SENSORS

Honeywell
Sensing and Control

RoHS Compliant Available

Just Added

- All metal wetted parts
- No internal elastomeric seals – no o-ring compatibility issues
- Amplified outputs – eliminates cost of external amplifiers
- Reverse polarity and overvoltage protection
- Less than 2ms response time – accurate high speed measurement

Combines the latest in ASIC technology with a proven media isolating, steel diaphragm design. Exceeds CE heavy industrial EMC allowing for use in areas of high EMI/RFI. Accuracy: +/- 0.25% FSO. Compensated operating and storage temperature range: -40°C to +125°C. Gauge parts <300 psi, -40 to 85°C +/- 3%, 85 to 125°C +/- 105. Connection: Packard Electric Metri Pack™ Connector (**mfg. part no. 3685302**) 3M leads.

¼"-18 NPT PRESSURE CONNECTION

Mfg. Part No.	Pressure Range (PSI)	Output	Stock No.	Price Each 1-14	Price Each 15-24
● MLH150PSB01A	150	0.5-4.5VDC, Ratiometric	71M5256	102.50	94.62
● MLH250PSB01A	250	0.5-4.5VDC, Ratiometric	42J5748	102.50	94.62
MLH500PSB01A	500	0.5-4.5VDC, Ratiometric	42J5752	78.23	72.21
● MLH01KPSB01A	1000	0.5-4.5VDC, Ratiometric	42J5732	99.47	92.19
● MLH03KPSB01A	3000	0.5-4.5VDC, Ratiometric	42J5736	99.47	92.19
● MLH05KPSB01A	5000	0.5-4.5VDC, Ratiometric	95M4336	100.99	93.22
● MLH150PSB01B	150	4-20mA, Current Loop	71M5257	80.06	…
● MLH250PSB01B	250	4-20mA, Current Loop	71M5259	102.50	94.62
● MLH500PSB01B	500	4-20mA, Current Loop	42J5753	100.99	93.22
● MLH01KPSB01B	1000	4-20mA, Current Loop	42J5733	100.99	93.22
● MLH03KPSB01B	3000	4-20mA, Current Loop	71M5254	102.50	94.62
● MLH05KPSB01B	5000	4-20mA, Current Loop	42J5741	78.88	…
⅛"-27 NPT PRESSURE CONNECTION					
● MLH250PSB06A	250	0.5-4.5VDC, Ratiometric	42J5750	102.50	94.62
● MLH500PSB06A	500	0.5-4.5VDC, Ratiometric	71M5261	102.50	94.62
● MLH01KPSB06A	1000	0.5-4.5VDC, Ratiometric	42J5734	102.50	94.62
● MLH03KPSB06A	3000	0.5-4.5VDC, Ratiometric	51M8880	98.00	90.83
● MLH05KPSB06A	5000	0.5-4.5VDC, Ratiometric	71M5255	98.00	90.83
● MLH150PSB06B	150	4-20mA, Current Loop	71M5258	99.47	92.19
● MLH250PSB06B	250	4-20mA, Current Loop	71M5260	102.50	94.62
● MLH500PSB06B	500	4-20mA, Current Loop	71M5262	102.50	94.62
● MLH01KPSB06B	1000	4-20mA, Current Loop	42J5735	102.50	94.62
● MLH03KPSB06B	3000	4-20mA, Current Loop	42J5739	99.47	92.19
● MLH05KPSB06B	5000	4-20mA, Current Loop	42J5743	99.47	92.19

CONNECTION

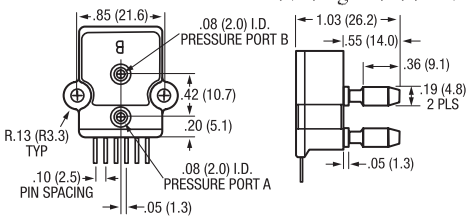
Mfg. Part No.	Description	Stock No.	Price Each 1-14
● 3685302	Packard Electric Female Metri-Pack™ Connector with 3M leads	72M5174	84.81

(82505)

SCX AND SCXL SERIES PRECISION COMPENSATED PRESSURE SENSORS

RoHS Compliant Available

Honeywell
Sensing and Control



- *SCX series* response time: 100msec
- Operating temperature: -40°C to +85°C
- SIP Package
- *SCXL series* response time: 500msec
- Operating temperature: 0 to +70°C

Provide a very cost-effective solution for pressure applications that require high accuracy over a wide temperature range. Feature an integrated sensor element and laser-trimmed thick film ceramic housed in a compact nylon case. All devices are calibrated for span to within +/-1% and provide a very low pressure output of +/-300 microvolts maximum. Ideal for medical equipment, computer peripherals and pneumatic control applications.

SCX SERIES

Mfg. Part No.	Pressure	Pressure Type	Output/ Span (mV)	Supply Voltage (VDC)	Stock No.	Price Each 1-24	Price Each 25-49
● SCX01DN	0-1 Psi	Differential/Gage	18	20	78H1477	127.43	116.35
● SCX05DN	0-5 Psi	Differential/Gage	60	20	78H1478	74.55	…
● SCX15AN	0-15 Psi	Absolute	90	20	10M5247	74.55	…
● SCX15DN	0-15 Psi	Differential/Gage	90	20	10M5248	50.51	…
● SCX30DN	0-30 Psi	Differential/Gage	90	20	78H1486	120.51	118.03
● SCX100DN	0-100 Psi	Differential/Gage	100	20	78H1480	92.68	90.77

➤ CONTINUED ➤

SCX AND SCXL SERIES PRECISION COMPENSATED PRESSURE SENSORS (CONT.)

SCXL SERIES

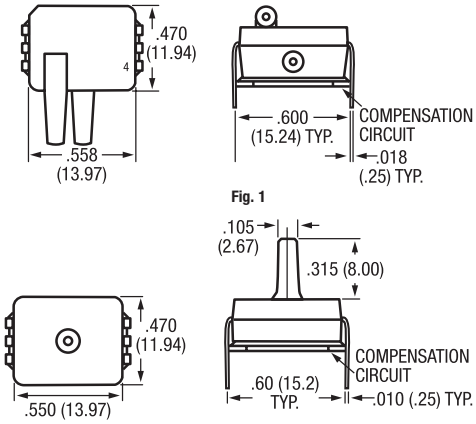
Mfg. Part No.	Pressure	Pressure Type	Output/ Span (mV)	Supply Voltage (VDC)	Stock No.	Price Each 1-24	Price Each 25-49
SCXL004DN*	0-4″ H2O	Differential/Gage	Ratio	18	10M5245	70.80	…
SCXL010DN*	0-10″ H2O	Differential/Gage	Ratio	20	09J5653	105.32	99.50

(78210)

SDX SERIES PRECISION COMPENSATED PRESSURE SENSORS

RoHS Compliant Available

Honeywell
Sensing and Control



- Supply Voltage: +20VDC
- Response Time: 100msec
- Operating Temperature: -40°C to +85°C
- DIP Package

Provide a very cost-effective solution for pressure applications that require small size plus performance. Feature an integrated circuit sensor element and laser-trimmed thick film ceramic housed in a compact, solvent-resistant case. Double wide (0.600″ lead spacing) dual-inline package. The PC board area used by each DIP is approximately 0.26 square inches, enabling the use of multiple sensors in limited board space. Thru-hole mounting. Ideal for medical equipment, computer peripherals, HVAC and pneumatic control applications.

Mfg. Part No.	Fig.	Pressure	Pressure Type	Output/ Span	Stock No.	Price Each 1-24
SDX01D4	1	0-5 Psi	Differential/Gage	Voltage	78H1488	58.11
SDX15A4	1	0-15 Psi	Differential/Gage	Voltage	10M5258	58.11
SDX15D4	1	0-15 Psi	Differential/Gage	Voltage	78H1499	39.54
SDX30A4	1	0-30 Psi	Absolute	Voltage	78H1502	40.56
SDX005IND4	1	0-5″ H2O	Differential/Gage	Voltage	78H1487	81.63
SDX010IND4	1	0-10″ H2O	Differential/Gage	Voltage	78H1490	70.93
SDX01G2	2	0-1 Psi	Gage	Voltage	78H1489	29.75
SDX05G2	2	0-5 Psi	Gage	Voltage	10M5255	71.88
SDX15A2	2	0-15 Psi	Absolute	Voltage	78H1497	61.10
SDX15G2	2	0-15 Psi	Gage	Voltage	78H1500	57.51
SDX30A2	2	0-30 Psi	Absolute	Voltage	10M5259	57.51

(80257)

HONEYWELL HOBBS 5000 SERIES PRESSURE SWITCHES

RoHS Compliant Available

Honeywell
Sensing and Control

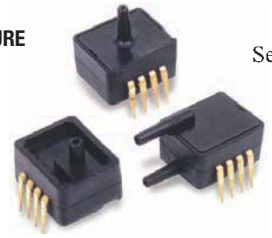
Features:
- Designed to operate with air, motor oils, transmission oils, jet fuels, and other similar hydrocarbon media
- Set point capable of factory or field adjustment
- Durable construction
- Compact size

Specifications:
- Connector: ⅛″ NPT male thread screw terminal standard
- Temperature range: -40°F to 250°F
- Models below shipped at factory set point
- Other set points available; *go online or call*

Mfg. Part No.	Range (Psi)	Factory Set Point (Psi)	Circuitry	Stock No.	Price Each 1-14	Price Each 15-24
076575 00000040 01	3.1 - 4	4	SPST-NO	27M2939	24.89	24.09
076577 00000040 01	3.1 - 7	4	SPST-NC	10M5309	27.53	26.65
076576 00000100 01	8 - 13	10	SPST-NO	10M5308	23.51	22.76
076072 00000150 01	14 - 24	15	SPST-NO+SPST-NC	10M5307	32.67	31.62

Dual circuit, NC circuit is reference. NO not adjusted
(85774)

ASDX DO AND ASDXL SERIES MICROSTRUCTURE PRESSURE SENSORS



Honeywell
Sensing and Control

RoHS Compliant Available

- Calibrated and temperature compensated output
- Response time: 8ms
- Standard DIP package
- ASIC enhanced output
- Supply Voltage: 5VDC

ASDX DO series provides digital correction of sensor offset, sensitivity, temperature coefficients and non-linearity. Uses I^2C compatible protocol, which allows easy interfacing to most commonly used microcontrollers and microprocessors without additional components or electronic circuitry. **ASDXL** series has an analog output that is ratiometric with supply voltage over the compensated supply range with 11-bit resolution. **ASDX DO** series is accurate to within ±2.0% full scale. **ASDXL** series is accurate to within ±2.5% full scale. Meets ISO 9001standards. Intended for use with non-corrosive, non-ionic working fluids such as air and dry gases.

Mfg. Part No.	Operating Pressure (psi)	Pressure Measuring Type	Stock No.	Price Each 1-24
ASDX001D44R-DO	1	Differential/Gage	71J3361	27.36

ASDXL SERIES

Mfg. Part No.	Operating Pressure (in H_2O)	Pressure Measuring Type	Stock No.	Price Each 1-24
ASDXL10D44R	10	Differential	01M5004	39.68

(83947)

SENSOTEC MODEL A105 SUBMINIATURE PRESSURE TRANSDUCERS

Honeywell
Sensing and Control

Features:
- Flush mount design
- Pressure ranges form 500psig to 10,000psig
- Solid frame construction provides durability
- Integral welded stainless steel connectors
- Ideal for applications involving rough handling or where hermetic seal is needed

Specifications:
- Infinite resolution
- Bonded foil strain gage type
- Shunt calibration data included
- Operating temperature: -65°F to 300°F
- 7⁄16-20UNF male pressure port threads
- Gas and liquid media
- Mating connector available; *order separately below*

Mfg. Part No.	Pressure Range (psig)	Stock No.	Price Each
AP311CR	500	27M1796	772.36
AP311CV	1000	27M1797	772.36
AP311DN	3000	27M1798	772.36
AP311DR	5000	27M1799	772.36
AP311DV	10000	27M1800	772.36

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each
AA111	PT06A-10S-6S mating connector	27M1708	48.80
AA112	PT06A-10S-6S mating connector w/50ft of 6-conductor cable	27M1795	148.96
AA113	PT06A-10S-6S mating connector w/15ft of 4-conductor cable	27M1709	99.00

(90233)

SENSOTEC DIN RAIL MOUNT IN-LINE AMPLIFIERS

Honeywell
Sensing and Control

Features:
- For strain gage transducers
- DIN rail mount enclosures with front-accessible electrical connections and adjustments
- Easy calibration and setup
- RFI and ESD protected

Specifications:
- 35mm DIN rail mount
- 60mA current draw
- 5000Hz DC frequency response

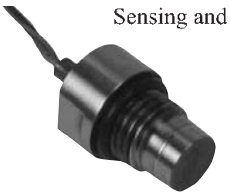
Mfg. Part No.	Model	Output (VDC)	Stock No.	Price Each
BE151	DV-05	±5	29M9218	385.66
BE155	DV-10	±10	29M9219	513.61

(90544)

SENSORS – PRESSURE

SENSOTEC MODEL S SUBMINIATURE PRESSURE TRANSDUCERS

Honeywell
Sensing and Control



Features:
- Flush mount diaphragm design
- High natural frequency
- 1% accuracy

Specifications:
- 2mV/V output
- Infinite resolution
- Operating temperature: -65°F to 300°F
- Bonded foil strain gage
- 4 twisted leads (5ft) electrical termination
- ⅜-24UNF threaded pressure port

Mfg. Part No.	Pressure Range (psig)	Stock No.	Price Each
BP357DN	100	27M2001	761.61
BP357DR	500	27M2002	761.61
BP357DV	1000	27M2003	761.61

(90238)

SENSOTEC MODEL TJE PRECISION GAGE PRESSURE TRANSDUCERS

Honeywell
Sensing and Control

Features:
- Stainless steel welded construction for rugged industrial applications
- Welded stainless steel diaphragm hermetically seals strain gage circuitry from atmospheric contamination
- Provides stable zero, regardless of the transducer environment
- Long term stability: A welded vacuum reference chamber

Specifications:
- Infinite resolution
- 0.1% accuracy
- Operating temperature: -100°F to 325°F (1-1000psi), -100°F to 250°F (3000-10000psi)
- Shunt calibration data included
- Mating connector available; *order separately below*
- Hermetic stainless steel electrical connection

PRESSURE TRANSDUCERS

Mfg. Part No.	Pressure Range (psig)	Stock No.	Price Each 1-24
AP121BR	100	27M1625	901.72
AP121CR	500	27M1626	613.54
AP121CV	1000	27M1627	901.72
AP121DN	3000	27M1628	608.61
AP121DR	5000	27M1629	608.61
AP121DV	10000	27M1630	613.54

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each Each
AA111	PT06A-10S-6S mating connector	27M1708	48.80
AA113	PT06A-10S-6S mating connector w/15ft of 4-coductor cable	27M1709	99.00

(90230)

SENSOTEC MODEL 425 WING UNION PRESSURE TRANSMITTERS

Honeywell
Sensing and Control

Features:
- For use with 1502 2″ wing union in demanding land-based and off shore installations
- All welded assembly ensures hermetic integrity in all field conditions
- Vibration and shock proof
- Comply with NACE standard MR-01-75 (1980) for corrosive service
- Applications include cementing, drilling, wellhead measurement, mud logging

Specifications:
- Accuracy: ±0.2%
- Operating temperature: -45°F to 200°F
- Supply voltage: 9-28VDC
- Intrinsically safe-Class 1, DIV 1
- ATEX certified
- Output: 4-20mA (full scale)
- NEMA 4X connector/mating connector

PRESSURE TRANSMITTER

Mfg. Part No.	Pressure Range (psig)	Stock No.	Price Each
BP425DR	0-5000	27M1774	2674.85
BP425EJ	0-15000	27M1773	2674.85

➤ CONTINUED ➤

SENSOTEC MODEL 425 WING UNION PRESSURE TRANSMITTERS (CONT.)

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each 1-24
023-0768-00	MS3106F-14S-2S mating connector	27M1775	92.73

(90234)

M5100 INDUSTRIAL PRESSURE SENSORS

CE RoHS Compliant Available measurement SPECIALTIES

Fig. 1

Fig. 2

Features:
- Heavy industrial CE approval
- Reverse polarity protection
- Leak proof: No o-rings, organics, or welds exposed to the pressure media
- Over 10million pressure cycles without failure

Specifications:
- 1/4 NPT male connection
- Termination: Series M5146: DIN 43650 C connector with mate; Series M5131: 24″ cable
- Media compatibility: Fluids compatible with 17-4 PH stainless steel
- 1% total error band

Mfg. Part No.	Fig.	Range (psi)	Stock No.	Price Each 1-9	Price Each 10-99
0.5 - 4.5VDC OUTPUT					
● M5131-000005-100PG	1	100	35M4446	127.83	109.20
● M5131-000005-200PG	1	200	35M4447	126.79	108.32
● M5131-000005-300PG	1	300	35M4448	124.13	106.04
● M5131-000005-500PG	1	500	35M4449	127.86	109.23
● M5131-000005-01KPG	1	1000	35M4440	127.23	108.70
● M5131-000005-05KPG	1	5000	35M4443	118.92	101.59
1 - 5VDC OUTPUT					
● M5146-000005-050PG	2	50	50M9452	151.65	129.56
● M5146-000005-100PG	2	100	50M9454	151.65	129.56
● M5146-000005-200PG	2	200	50M9455	151.65	129.56
● M5146-000005-300PG	2	300	50M9456	151.65	129.56
● M5146-000005-500PG	2	500	50M9457	149.99	128.14
● M5146-000005-01KPG	2	1000	50M9449	151.25	129.22
● M5146-000005-03KPG	2	3000	50M9450	147.23	125.78
● M5146-000005-05KPG	2	5000	50M9451	147.23	125.78
● M5146-000005-10KPG	2	10000	50M9453	151.65	129.56
4 - 20mA OUTPUT					
● M5151-000005-050PG	1	50	35M4464	139.98	119.59
● M5151-000005-100PG	1	100	35M4466	139.92	119.53
● M5151-000005-200PG	1	200	35M4467	139.98	119.59
● M5151-000005-300PG	1	300	35M4468	135.90	116.10
● M5151-000005-500PG	1	500	35M4469	139.98	119.59
● M5151-000005-01KPG	1	1000	35M4460	139.98	119.59
● M5156-000005-03KPG	2	3000	50M9458	147.23	125.78
● M5151-000005-05KPG	1	5000	35M4463	139.98	119.59
● M5156-000005-10KPG	2	10000	50M9459	147.23	125.78

(90542)

techcast

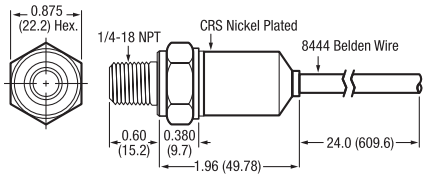
TechCast® Product Training

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

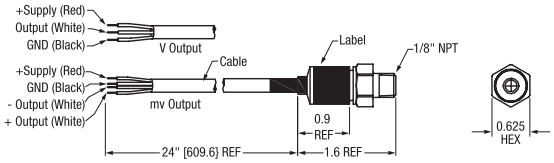
(148854)

MSP-300/340 MICROFUSED STAINLESS STEEL ISOLATED PRESSURE TRANSDUCERS

measurement SPECIALTIES



MSP-300



MSP34

- Accuracy: < 1% FS
- Zero/span and thermal error: <±2% FS
- Operating temperature: -20°C to +85°C
- Compensated temp range: 0°C to +55°C
- Connection: 2 feet cable

Suitable for measurement liquid or gas pressure, even for difficult media such as contaminated water, steam, and mildly corrosive fluids or gases. Machined from a solid piece of 17-4 PH stainless steel. Includes a ¼ NPT pipe thread allowing a leak-proof, all metal sealed system. There are no o-rings, welds or organics exposed to the pressure media.

MSP-300 ¼″ NPT PRESSURE PORT

Mfg. Part No.	Supply Voltage	Pressure Range	Outputs	Stock No.	Price Each 1-9
MSP-300-100-P-2-N-1	5VDC	0-100 Psi	0-100mVDC	96H0161	110.23
MSP-300-250-P-2-N-1		0-250 Psi	0-100mVDC	96H0169	110.23
MSP-300-500-P-2-N-1		0-500 Psi	0-100mVDC	96H0173	110.23
MSP-300-01K-P-2-N-1		0-1000 Psi	0-100mVDC	96H0153	110.23
MSP-300-2K5-P-2-N-1		0-2500 Psi	0-100mVDC	96H0165	110.23
MSP-300-05K-P-2-N-1		0-5000 Psi	0-100mVDC	96H0157	110.23
MSP-300-100-P-3-N-1		0-100 Psi	0.5-4.5VDC	96H0162	141.73
MSP-300-250-P-3-N-1		0-250 Psi	0.5-4.5VDC	96H0170	141.73
MSP-300-500-P-3-N-1		0-500 Psi	0.5-4.5VDC	96H0174	141.73
MSP-300-01K-P-3-N-1		0-1000 Psi	0.5-4.5VDC	96H0154	141.73
MSP-300-2K5-P-3-N-1		0-2500 Psi	0.5-4.5VDC	96H0166	141.73
MSP-300-05K-P-3-N-1		0-5000 Psi	0.5-4.5VDC	96H0158	141.73
MSP-300-100-P-4-N-1	10-30VDC	0-100 Psi	1-5VDC	96H0163	150.20
MSP-300-250-P-4-N-1		0-250 Psi	1-5VDC	96H0171	150.20
MSP-300-500-P-4-N-1		0-500 Psi	1-5VDC	96H0175	150.20
MSP-300-01K-P-4-N-1		0-1000 Psi	1-5VDC	96H0155	150.20
MSP-300-2K5-P-4-N-1		0-2500 Psi	1-5VDC	96H0167	150.20
MSP-300-05K-P-4-N-1		0-5000 Psi	1-5VDC	96H0159	150.20
MSP-300-100-P-5-N-1		0-100 Psi	4-20mA	96H0164	157.47
MSP-300-250-P-5-N-1		0-250 Psi	4-20mA	96H0172	157.47
MSP-300-500-P-5-N-1		0-500 Psi	4-20mA	96H0176	157.47
MSP-300-01K-P-5-N-1		0-1000 Psi	4-20mA	96H0156	157.47
MSP-300-2K5-P-5-N-1		0-2500 Psi	4-20mA	96H0168	157.47
MSP-300-05K-P-5-N-1		0-5000 Psi	4-20mA	96H0160	157.47

MSP-340 1/8″ NPT PRESSURE PORT

M3421-000006-100PG	5VDC	0-100 Psi	0-100mVDC	96H0194	130.81
M3421-000006-300PG		0-300 Psi	0-100mVDC	96H0195	130.81
M3421-000006-500PG		0-500 Psi	0-100mVDC	96H0196	130.81
M3431-000006-100PG		0-100 Psi	0.5-4.5VDC	96H0198	152.63
M3431-000006-300PG		0-300 Psi	0.5-4.5VDC	96H0199	152.63
M3431-000006-500PG		0-500 Psi	0.5-4.5VDC	96H0200	152.63
M3431-000006-01KPG		0-1000 Psi	0.5-4.5VDC	96H0197	152.63

(78722)

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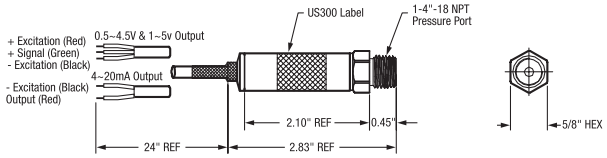
(148830)

ULTRASTABLE 300 STAINLESS STEEL PRESSURE SENSORS

measurement SPECIALTIES



Vent through cable (under 100psi). Add 0.4" for CE EM/RFI protection. max operating temperature for cable is 100ºC

- Perfect for applications less than 100 psi.
- All materials compatible with 316 stainless steel
- Accuracy: 0.1%
- Total error band: < ±1% of FS (75-10K PSI)
- Thermal effect on offset: -1.5 to 1.5 % span
- Thermal hysteresis: ±0.05 typ.
- Operating Temperature: -40°C to +105°C
- Connection: 2 feet cable (IP67 rated)

0.5-4.5VDC OUTPUTS

Mfg. Part No.	Pressure Range	Supply Voltage	Supply Current	Stock No.	Price Each
US331-000005-015PG	0-15Psi	4.75-5.25	2.5-3.5mA	96H0202	133.90
US331-000005-030PG	0-30 Psi	4.75-5.25	2.5-3.5mA	96H0204	133.90
US331-000005-050PG	0-50 Psi	4.75-5.25	2.5-3.5mA	96H0205	133.90
US331-000005-100PG	0-100 Psi	4.75-5.25	2.5-3.5mA	96H0207	133.90
US331-000005-015PA	0-15 Psi	4.75-5.25	2.5-3.5mA	96H0201	133.90
US331-000005-030PA	0-30 Psi	4.75-5.25	2.5-3.5mA	96H0203	133.90
US331-000005-100PA	0-100 Psi	4.75-5.25	2.5-3.5mA	96H0206	133.90

4 to 20mA OUTPUTS

US381-000005-015PG	0-15 Psi	10-30	…	96H0209	141.11
US381-000005-030PG	0-30 Psi	10-30	…	96H0211	141.11
US381-000005-050PG	0-50 Psi	10-30	…	96H0212	141.11
US381-000005-100PG	0-100 Psi	10-30	…	96H0214	141.11
US381-000005-015PA	0-15 Psi	10-30	…	96H0208	141.11
US381-000005-030PA	0-30 Psi	10-30	…	96H0210	141.11
US381-000005-100PA	0-100 Psi	10-30	…	96H0213	141.11

(78726)

ELECTRONIC INDICATING PRESSURE SWITCH/ TRANSMITTERS

Just Added

NOSHOK

- Pressure ranges for -14.5 psig to 9999 psig
- 330° Rotatable Display-Head
- Intergrated password protection, simple 2-key programming four-digit LED-display
- Scaleable analog output
- Fast response time
- Signal Output: 4 mA to 20 mA
- Accuracy: +/- 0.5% Full Scale
- Power supply: 12 - 30 Vdc
- Switch function: 1 N.O. or 1 N.C. (PNP or NPN)
- Process connection: ¼″ NPT male

The NOSHOK 800 Series Electronic Indicating Pressure Switch/Transmitter provides continuous pressure monitoring and allows the programming of the set points without applying pressure. The set points, contact functions (normally open / normally closed), reset points, contact types (npn / pnp) and switching function (hysteresis / gate) are simple to adjust via the two buttons. By the use of proven ceramic or thin film sensors, this pressure switch features a high level of repeatability and durability. The turnable display and the optional turnable process connection allow ease of installation and wiring. 330° rotatable pressure connection. Minimum/maximum value memory. Output dampening up to 2000 msec. Switching time delay.

Mfg. Part No.	Pressure Range (psig)	Stock No.	Price Each Each
800-2-2-30-2	0 - 30	34P2885	390.00
800-2-2-75-2	0 - 75	34P2889	390.00
800-2-2-145-2	0 - 145	34P2882	390.00
800-2-2-300-2	0 - 300	34P2886	390.00
800-2-2-750-2	0 - 750	34P2890	390.00
800-2-2-1450-2	0 - 1450	34P2883	444.08
800-2-2-2400-2	0 - 2400	34P2884	444.08
800-2-2-3750-2	0 - 3750	34P2887	444.08
800-2-2-6000-2	0 - 6000	34P2888	444.08
800-2-2-9000-2	0 - 9000	34P2891	444.08

(136961)

SENSORS – PRESSURE

HIGH ACCURACY HEAVY DUTY PRESSURE TRANSDUCERS

NOSHOK

CE

Just Added

- Ranges from vacuum to 120000 psi
- Advanced diffused semiconductor and sputtered thin film sensor for maximum stability
- High accuracy and long term stability
- Corrosion resistant stainless steel construction
- Span and zero adjustments
- Power Supply: 10 Vdc to 30 Vdc for current output, 14 Vdc to 30 Vdc for voltage output

NOSHOK Series 615/616 Pressure Transducers are designed for heavy duty applications requiring high accuracy and durability. Utilizing similar diffused semiconductor or sputtered Thin Film technology found in the 100 series, these transducers are stable, accurate, shock resistant, and extremely durable. The durability is coupled with the mechanical integrity of the case, process connection, and wetted parts constructed of corrosion resistant stainless steel, completing the NOSHOK product characteristics you have come to expect. Available in a wide variety of electrical and process configurations and fully adaptable to the 1800, 1900 and 2000 Series Smart System Digital Indicators, the Series 615/616 Pressure Transducers are the choice for heavy duty applications. A final electrical output and calibration inspection is performed on all NOSHOK transducers prior to shipment to ensure 100% "out of the box" reliability.

CURRENT OUTPUT SIGNALS TRANSDUCERS 4mA TO 20mA, 2-WIRE

Mfg. Part No.	Pressure Range (psig)	Stock No.	Price Each Each
615-15-1-1-8-8	0 - 15	34P2860	388.88
615-30-1-1-8-8	0 - 30	34P2868	388.88
615-60-1-1-8-8	0 - 60	34P2876	388.88
615-100-1-1-8-8	0 - 100	34P2856	388.88
615-150-1-1-8-8	0 - 150	34P2862	388.88
615-200-1-1-8-8	0 - 200	34P2864	388.88
615-300-1-1-8-8	0 - 300	34P2870	388.88
615-500-1-1-8-8	0 - 500	34P2874	388.88
615-750-1-1-8-8	0 - 750	34P2880	388.88
615-1000-1-1-8-8	0 - 1000	34P2858	388.88
615-2000-1-1-8-8	0 - 2000	34P2866	388.88
615-3000-1-1-8-8	0 - 3000	34P2872	388.88
615-6000-1-1-8-8	0 - 6000	34P2878	388.88
VOLTAGE OUTPUT SIGNALS TRANSDUCERS 0 VDC TO 10 VDC, 3-WIRE			
615-15-1-5-8-8	0 - 15	34P2861	437.38
615-30-1-5-8-8	0 - 30	34P2869	437.38
615-60-1-5-8-8	0 - 60	34P2877	437.38
615-100-1-5-8-8	0 - 100	34P2857	437.38
615-150-1-5-8-8	0 - 150	34P2863	437.38
615-200-1-5-8-8	0 - 200	34P2865	437.38
615-300-1-5-8-8	0 - 300	34P2871	437.38
615-500-1-5-8-8	0 - 500	34P2875	437.38
615-750-1-5-8-8	0 - 750	34P2881	437.38
615-1000-1-5-8-8	0 - 1000	34P2859	437.38
615-2000-1-5-8-8	0 - 2000	34P2867	437.38
615-3000-1-5-8-8	0 - 3000	34P2873	437.38
615-6000-1-5-8-8	0 - 6000	34P2879	437.38

(136945)

HIGH PERFORMANCE CURRENT OUTPUT PRESSURE TRANSMITTERS

Just Added

NOSHOK

CE

- Accuracy up to +/- 0.25 % Full Scale (Best fit straight line)
- Welded stainless steel pressure chamber, High overpressure protection
- Advanced diffused semiconductor and sputtered thin film sensor for maximum stability
- High alternating load resistance
- CE compliant to suppress RFI, EMI and ESD noise interference
- Output: 4 mA to 20 mA
- Power Supply: 10 Vdc to 30 Vdc

NOSHOK 100 Series Current Output Pressure Transmitters are designed to provide a previously unequalled level of performance, utilizing diffused semiconductor and sputtered thin film strain gage technology. 100 Series transmitters are highly repeatable, shock resistant and are extremely stable over long periods of time. CE compliance which includes substantial levels of RFI, EMI and ESD noise protection combined with reverse polarity and over-voltage protection hardens the product so it performs well in the most demanding applications. Advanced manufacturing techniques combined with technologically advanced standard features allow NOSHOK to offer a level of performance previously found only on transducers costing hundreds of dollars more. Final calibration tests performed on all NOSHOK transmitters prior to shipment ensures 100% "out of the box" reliability.

➤ CONTINUED ➤

HIGH PERFORMANCE CURRENT OUTPUT PRESSURE TRANSMITTERS (CONT.)

Mfg. Part No.	Pressure Range (psig)	Stock No.	Price Each Each
100-15-1-1-2-7	0 - 15	34P2810	326.57
100-30-1-1-2-7	0 - 30	34P2814	326.57
100-60-1-1-2-7	0 - 60	34P2818	326.57
100-100-1-1-2-7	0 - 100	01P2770	314.01
100-150-1-1-2-7	0 - 150	34P2811	326.57
100-200-1-1-2-7	0 - 200	34P2812	326.57
100-300-1-1-2-7	0 - 300	34P2815	326.57
100-500-1-1-2-7	0 - 500	34P2817	326.57
100-750-1-1-2-7	0 - 750	34P2820	326.57
100-1000-1-1-2-7	0 - 1000	34P2809	326.57
100-2000-1-1-2-7	0 - 2000	34P2813	326.57
100-3000-1-1-2-7	0 - 3000	34P2816	326.57
100-6000-1-1-2-7	0 - 6000	34P2819	326.57

(136943)

COMPACT OEM PRESSURE TRANSDUCERS

Just Added

NOSHOK

CE

- Ranges from 0 psig to 15 psig to 0 psig to 10000 psig
- Constructed of high quality stainless steel
- Excellent EMC-protection compliant with EN 61 326
- All welded design with no internal seals
- Highly resistant to shock and vibration
- Excellent for use in dynamic or static measurement
- Output signals: 4 mA to 20 mA, 2-wire
- Accuracy: +/- 0.5% Full Scale
- Power supply: 8 Vdc to 30 Vdc
- Process connection: ¼" NPT male

Ruggedness and long term stability during operation were the focus in the design of this NOSHOK 300 series pressure transducer. As a result of this we were able to develop a transducer for use in general industrial applications with technical specifications exceeding those of transducers costing much more. A wide variety of electrical and mechanical connections are available for easy installation into most applications along with most popular analog output signals. All electrical components carry a high degree of EMC
protection compliant with EN 61 326 which make it ideal for areas where RFI, EMI or ESD signals are present. The compact size makes it very attractive for applications where space is limited. Constructed of high quality stainless steel makes it compatible with chemically aggressive media. The sensor is welded directly to the process connection eliminating the need for any gaskets or seals while also increasing the resistance to mechanical stress.

Mfg. Part No.	Pressure Range (psig)	Stock No.	Price Break 1 Each
300-15-1-1-2-8	0 - 15	34P2845	214.00
300-30-1-1-2-8	0 - 30	34P2850	214.00
300-60-1-1-2-8	0 - 60	34P2855	214.00
300-100-1-1-2-8	0 - 100	34P2842	214.00
300-150-1-1-2-8	0 - 150	34P2846	214.00
300-200-1-1-2-8	0 - 200	34P2848	214.00
300-300-1-1-2-8	0 - 300	34P2851	214.00
300-500-1-1-2-8	0 - 500	34P2853	214.00
300-1000-1-1-2-8	0 - 1000	34P2843	214.00
300-1500-1-1-2-8	0 - 1500	34P2847	214.00
300-2000-1-1-2-8	0 - 2000	34P2849	214.00
300-3000-1-1-2-8	0 - 3000	34P2852	214.00
300-5000-1-1-2-8	0 - 5000	34P2854	214.00
300-10000-1-1-2-8	0 - 10000	34P2844	214.00

(136949)

HIGH PERFORMANCE DIGITAL PRESSURE GAUGES

Just Added

NOSHOK

CE

- Proven stable ceramic thick film strain gage sensor
- High accuracy 4 digit LCD display
- Simple front face programming
- Display rotates for best viewing
- Min./Max. value standard
- Analog output or limit switch option

NOSHOK 1000 Series Digital Pressure Gauges were designed to exceed industry's most demanding application requirements. Using the latest in reliable ceramic thick film strain gage technology combined with low power electronics, these gauges are accurate, stable and extremely reliable. NOSHOK digital gauges are ideally suited for local indication, and with the
analog voltage output or limit switch option they can interface with other monitoring and control systems. Also, a max./min. memory feature is standard to provide peak and valley capture. A rigorous inspection is performed on all NOSHOK digital gauges after final assembly and prior to shipment to ensure 100% "out of the box" reliability.

➤ CONTINUED ➤

HIGH PERFORMANCE DIGITAL PRESSURE GAUGES (CONT.)

Mfg. Part No.	Pressure Range (psig)	Stock No.	Price Each
1000-30-2-1	0 - 30	34P2824	393.72
1000-60-2-1	0 - 60	88M3420	378.72
1000-145-2-1	0 - 145	34P2821	393.72
1000-300-2-1	0 - 300	88M3515	378.72
1000-600-2-1	0 - 600	34P2827	393.72
1000-1450-2-1	0 - 1450	34P2822	430.81
1000-2000-2-1	0 - 2000	34P2823	430.81
1000-3000-2-1	0 - 3000	34P2825	430.81
1000-5000-2-1	0 - 5000	34P2826	430.81

(136946)

MINIATURE PRESSURE SENSORS

RoHS Compliant Available

OMRON INDUSTRIAL AUTOMATION

- 2 Independent NPN Digital Outputs Per Sensor
- Can be Configured Either Normally Opened or Closed
- Power Supply: 12 - 24VDC
- Linearity: ±1%
- Choice of Hysteresis or Window Mode and Auto or Manual Programming

E8Y

E8F2

Mfg. part no. E8F2 has additional 1-5VDC analog output. Small in size, dimensions: **mfg. part no. E8Y** 31 x 30 x 30mm; **mfg. part no. E8F2** 28 x 28 x 29mm. UL recognized, CE compliant.

Mfg. Part No.	Pressure	Pressure Range	Stock No.	Price Each
● E8Y-A5C-RD	Differential	0 - 0.725 PSI	25C5632	442.42
● E8F2-D10C	Gauge	0 - 145 PSI	25C4098	316.88
● E8F2-DN0C	Gauge	0 - -14.6 PSI	25C4097	316.88

ACCESSORIES

Mfg. Part No.	Description	Stock No.	Price Each
● E89-F4	Panel Mounting Bracket **mfg. part no. F8F2**	25C4102	22.29
● E89-Y1	Panel Mounting Bracket **mfg. part no. E8Y**	12C1109	22.06

(69857)

MINIATURE PRESSURE SENSORS

OMRON INDUSTRIAL AUTOMATION

RoHS Compliant Available

- Supply: 12VDC
- Output: 1-5VDC
- Connector Wiring Simplifies Installation and Replacement
- Type E8M-A1Includes 3M Leads
- Linearity: +19% FS Max.
- Hysteresis: +1% FS Max.

Small and lightweight, **E8MS series**: 15mm diameter x 29.77mm, **E8M series**: 19 x 29x 42.5mm cube. Ideal for direct mounting on moving components like robots, cylinders, or chip mounters. Connectors for **E8MS series** available separately.

Mfg. Part No.	Description	Pressure Range (PSI)	Stock No.	Price Each
● E8MS-10	Positive	0 - 145	25C4239	139.38
● E8MS-N0	Negative	0 - -14.6	25C4240	139.38
● E8MA1 3M	Differential	0 - 0.145	38B409	469.12

Mfg. Part No.	Description	Stock No.	Price Each
● E89-M4	3-Pin Connector w/3-Meter Cable. Required for **mfg. part nos. E8MS-10** and **E8MS-N0**	25C4242	26.34

(69858)

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(148833)

DIGITAL DIFFERENTIAL PRESSURE SENSORS

Just Added

SENSIRION THE SENSOR COMPANY

SDP600

SDP610

Features:
- Accuracy better than 0.2% FS near zero
- Digital output (I2C)
- Excellent repeatability, even below 10 Pa
- Calibrated and temperature compensated
- Excellent long-term stability

Application:
- Medical (e.g. respiratory devices)
- HVAC
- Automotive
- Process automation

The SDP600 operates from a 3.3 Vdc supply voltage and features a digital 2-wire interface, which makes it easy to connect directly to a microprocessor. The signal is internally linearized and temperature compensated.

Mfg. Part No.	Measurement Range	Operating Voltage	Stock No.	Price Each 1-4
SDP600	-500 to +500 Pa (-2.0 to +2.0 in. H20)	3.0 - 3.6 Vdc	10R6995	97.36
SDP610	-500 to +500 Pa (-2.0 to +2.0 in. H20)	3.0 - 3.6 Vdc	10R6996	97.36

(148707)

LOW RANGE DIFFERENTIAL PRESSURE SENSOR

SENSIRION THE SENSOR COMPANY

Features:
- For medical ventilators (ICU and home care)
- High sensitivity below 10 Pa to measure small volume flow (neonatal)
- Fast response time for efficient trigger function
- Unsurpassed performance thanks to CMOSens® technology
- Offset and hysteresis free
- Fully calibrated and temperature compensated
- Not sensitive to the mounting orientation and vibrations

Application:
- Medical
- Homecare ventilation
- Intensive care ventilation (ICU)

Just Added

The SDP1108 is supplied with 5.0 V and provides a 0.25…4.0 V output. Although the output of the sensor is analog, the internal linearization and temperature compensation is performed digitally. This results in a superior accuracy, outstanding resolution (up to 0.05 Pa), and lowest temperature dependence.

Mfg. Part No.	Measurement Range	Supply Voltage	Stock No.	Price Each 1-4
SDP1108-R	0.25 to 4 V 0 to 500 Pa 0 to 2 in. H2O	4.75 to 5.25 VDC	53M5897	129.83

(148709)

LOW RANGE DIFFERENTIAL PRESSURE SENSOR FOR AIR AND NON-AGGRESSIVE GASES

SENSIRION THE SENSOR COMPANY

Just Added

Features:
- For cost sensitive HVAC and medical OEM applications
- Unsurpassed performance thanks to CMOSens® technology
- Offset and hysteresis free
- Excellent accuracy and reproducibility even below 10 Pa
- Fully calibrated and temperature compensated
- Linear or square root extracted output characteristics available
- Not sensitive to the mounting orientation
- Direct PCB mounting with simple snap-on system

Application:
- Medical
- HVAC
- Automotive
- Process Automation

The devices are supplied with 5.0 V and provide a 0.25…4.0 V output. Although the output of the SDP1000 differential pressure sensor is analog, the internal linearization and temperature compensation is performed digitally. This results in a superior accuracy, outstanding resolution (up to 0.05 Pa), and lowest temperature dependence. The SDP1000 is available with a linear or square root extracted output characteristics at the same price. Since fully exchangeable just a few external electronic components around the SDP1000 make a high quality differential sensor transmitter with e.g. an 0...10 V output or other interfaces.

Mfg. Part No.	Measurement Range (Pa)	Stock No.	Price Each 1-4
SDP1000-L025	62	10R6994	127.92

(148710)

SENSORS – PRESSURE • SENSORS – PROXIMITY

SDP SERIES DIFFERENTIAL AIR PRESSURE TRANSDUCERS

RoHS Compliant Available

SENSIRION THE SENSOR COMPANY

- Offset and hysteresis free
- Direct PCB Mounting with simple snap-on system
- Excellent accuracy and reproducibility even below 10 Pa
- Fully calibrated and temperature compensated

CMOSens technology combines an economical yet highly precise sensor element with electronics for signal processing on a single chip (ASIC). Voltage output: 0.25 to 4.0 VDC. Linear or square root output characteristics. Zero drift. Perfect for HVAC and Medical applications.

Mfg. Part No.	Measurement Range min/max	Pressure Offset (min/max) Pa	Accuracy	Stock No.	Price Each 1-9
● SDP1000-L	-20 to +500 Pa (2"H20)	-0.4/+0.4	1% m.v.	18M2968	101.15
● SDP1000-R	-20 to +500 Pa (2"H20)	-1.0/+1.0	1% m.v.	07J2373	101.15
● SDP1000-L05	-5 to +125 Pa (0.5"H20)	-0.1/+0.1	1.5% m.v.	18M2969	101.15
● SDP2000-L	-100 to +3500 Pa (14"H20)	-2.8/+2.8	1% m.v.	07J2374	101.15
● SDP2000-R	-100 to +3500 Pa (14"H20)	-8.0/+8.0	1% m.v.	07J2375	101.15

(80121)

CAPACITIVE PROXIMITY SENSORS

RoHS Compliant Available

CARLO GAVAZZI

Just Added

Rectangular Housing

Cylindrical Housing

- For sensing of granulates, plastics and other ferrous and non-ferrous materials
- Featuring patented TRIPLESHIELD™ protection from noise interference caused by ESD, GSM or transient bursts
- Newer types feature "Teach-In" pushbutton programming for sensing range, material detection and N/O or N/C output programming; humidity, dirt and moisture compensation; and automatic detection of NPN or PNP loads
- Available in 12, 18 and 30mm diameters and compact flat pack housing (46 x 28 x 5.5mm)
- Rugged and cost effective polyester housings
- Adjustable sensitivity, up to 30mm
- Easy to view LED indication
- 2m PVC cable (except types ending with -6)

RECTANGULAR HOUSING

Mfg. Part No.	Sensing Distance (mm)	Supply Voltage	Output Type	Max. Current (mA)	Stock No.	Price Each 1-4
● CD46CNC10NP	1-10	10-30VDC	NPN, N/O or C	200	05M4039	178.34
● CD46CNC10PP	1-10	10-30VDC	PNP, N/O or C	200	05M4040	178.34
12mm HOUSING						
● CA12CLC08BP	0.5-12	10-40VDC	NPN /PNP, N/O or C	250	05M4027	188.14
18mm HOUSING						
● CA18CLC12BP	0.5-12	10-40VDC	NPN /PNP, N/O or C	250	05M4028	203.82
● CA18CLF08NA	3-8	10-40VDC	NPN N/O	200	93B6230	141.11
CA18CLN12PA	3-12	10-40VDC	PNP N/O	200	16C2342	136.28
CA18CLN12NA	3-12	10-40VDC	NPN N/O	200	16C2340	136.28
● CA18CLN12TO	3-12	20-250VAC	SCR N/O	500	05M4032	219.50
CA18CLN12TC	3-12	20-250VAC	SCR N/C	500	16C2344	219.50
30mm HOUSING						
● CA30CLC30BP	1-30	10-40VDC	NPN /PNP, N/O or C	250	10M5141	233.97
● CA30CLF16CP	2-16	20-250VAC/DC	MOSFET N/O or C	250	05M4033	207.00
EC3016TBAPL	4-16	20-250VAC	SCR N/O or C	500	16F2855	314.77
● CA30CLN25CP	2-25	20-250VAC/DC	MOSFET N/O or C	250	05M4034	207.00
EC3025NPAPL	4-25	10-40VDC	NPN N/O & C	200	16F2853	214.67
● EC3025PPAPL	4-25	10-40VDC	PNP N/O & C	200	05M4107	214.67
● EC3025TBAPL	4-25	20-250VAC	SCR N/O or C	500	05M4108	288.24
EC3025TBAPL-6*	4-25	20-250VAC	SCR N/O or C	500	16C1378	255.00

* With M12 disconnect plug

(3585)

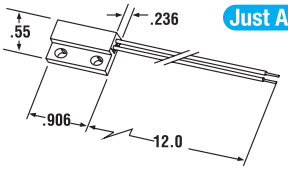
MAGNETIC PROXIMITY SENSORS

RoHS Compliant Available

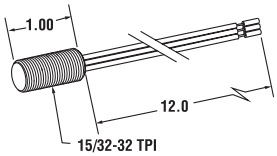
CHERRY

Just Added

MP2007



MP2018



MP2007

- Zero Power Consumption
- Hermetically Sealed for Resistance Against Moisture and Dirt
- Can be Activated by North or South Pole of Approaching Magnet
- Operating Temperature: -40°C to +105°C
- Reliable Reed Switch Technology

Mfg. Part No.	Description	Switching Max. Voltage	Supply Max. Current	Stock No.	Price Each 1-24
● AS101001	Threaded Magnetic Actuator	…	…	98B0564	4.36
● AS201701	Smooth Barrel Actuator	…	…	35C0243	2.53
● AS201801	Mini Flange Mount Actuator	…	…	35C0239	2.65
● AS201901	Flange Mount Actuator	…	…	35H8626	2.87
● HE610400	Threaded Magnetic Actuator	…	…	52F6742	11.88
● MP200701	SPST-N/O Threaded Barrel	175VDC	0.5A	10M6194	8.60
● MP200702	SPST-N/C Threaded Barrel	100VDC	0.2A	05M6405	10.64
● MP200703	SPDT-C/O Threaded Barrel	100VDC	0.2A	05M6406	11.10
● MP201701	SPST-N/O Smooth Barrel	175VDC	0.5A	05M6407	2.69
● MP201702	SPST-N/C Smooth Barrel	100VDC	0.2A	05M6408	4.47
● MP201703	SPDT-C/O Smooth Barrel	100VDC	0.2A	20C2765	5.02
● MP201801	SPST-N/O Mini Flange Mount	175VDC	0.5A	05M6409	2.93
● MP201802	SPST-N/C Mini Flange Mount	100VDC	0.2A	05M6410	4.51
● MP201901	SPST-N/O Flange Mount	175VDC	0.5A	05M6411	3.05
● MP201902	SPST-N/C Flange Mount	100VDC	0.2A	36H4514	4.56

(69349)

CYLINDRICAL INDUCTIVE PROXIMITY SENSORS

Just Added

Autonics Sensors & Controllers

PR08

PR12

PR18

PRCM12, PRCM18

- Improved noise resistance with dedicated IC DC 3-wire)
- Reverse power polarity, surge, overcurrent protection (Except PR08 Series)
- Long life cycle and reliable simple operation
- Connector types shorten maintenance time
- Red LED status indication
- IP67 rated waterproof structure (IEC standard)
- Replacer for micro switches and limit switches

INDUCTIVE PROXIMITY SENSORS - WITH PIGTAIL CABLE

Mfg. Part No.	Body Dia. (mm)	Sens. Dist. (mm)	Output Type	Supply Voltage	Connection Type	Stock No.	Price Each 1-9
PR08-1.5DN	8	1.5	NPN, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6725	21.58
PR08-1.5DP	8	1.5	PNP, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6726	21.58
PR08-2DN	8	2	NPN, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6727	21.58
PR08-2DP	8	2	PNP, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6728	21.58
PR12-2DN	12	2	NPN, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6730	21.58
PR12-2DP	12	2	PNP, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6731	21.58
PR12-2AO	12	2	NO	100-240 VAC	2 Meter - 2 Wire Cable	10R6729	31.02
PR12-4DN	12	4	NPN, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6733	21.58
PR12-4DP	12	4	PNP, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6734	21.58
PR12-4AO	12	4	NO	100-240 VAC	2 Meter - 2 Wire Cable	10R6732	31.02
PR18-5DN	18	5	NPN, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6736	21.58
PR18-5DP	18	5	PNP, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6737	21.58

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CYLINDRICAL INDUCTIVE PROXIMITY SENSORS (CONT.)

Mfg. Part No.	Body Dia. (mm)	Sens. Dist. (mm)	Output Type	Supply Voltage	Connection Type	Stock No.	Price Each 1-9
PR18-5AO	18	5	NO	100-240 VAC	2 Meter - 2 Wire Cable	10R6735	26.98
PR18-8DN	18	8	NPN, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6738	21.58
PR18-8DP	18	8	PNP, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6739	21.58
INDUCTIVE PROXIMITY SENSORS - WITH M12 CONNECTOR							
PRCM12-2DN	12	2	NPN, NO	12-24 VDC	3-Pin M12 Disconnect	10R6710	21.57
PRCM12-2DP	12	2	PNP, NO	12-24 VDC	3-Pin M12 Disconnect	10R6711	21.57
PRCM12-4DN	12	4	NPN, NO	12-24 VDC	3-Pin M12 Disconnect	10R6713	21.57
PRCM12-4DP	12	4	PNP, NO	12-24 VDC	3-Pin M12 Disconnect	10R6714	21.58
PRCM12-4AO	12	4	NO	100-240 VAC	2-Pin M12 Disconnect	10R6712	36.41
PRCM18-5DN	18	5	NPN, NO	12-24 VDC	3-Pin M12 Disconnect	10R6715	21.58
PRCM18-5DP	18	5	PNP, NO	12-24 VDC	3-Pin M12 Disconnect	10R6716	21.58

(148691)

LONG SENSING DISTANCE CYLINDRICAL INDUCTIVE PROXIMITY SENSORS

Just Added

Autonics
Sensors & Controllers

PRD12

PRD18

- Longer sensing distance up to 25mm
- Improved noise resistance with dedicated IC DC 3-wire)
- Reverse power polarity, surge, overcurrent protection (Except PR08 Series)
- Long life cycle and reliable simple operation
- Red LED status indication
- IP67 rated waterproof structure (IEC standard)
- Replacer for micro switches and limit switches

Mfg. Part No.	Body Dia. (mm)	Sensing Distance (mm)	Output Type	Supply Voltage	Connection Type	Stock No.	Price Each 1-9
PRD12-4DN	12	4	NPN, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6717	25.61
PRD12-4DP	12	4	PNP, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6718	25.61
PRD12-8DN	12	8	NPN, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6719	25.61
PRD12-8DP	12	8	PNP, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6720	25.61
PRD18-7DN	18	7	NPN, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6723	25.61
PRD18-7DP	18	7	PNP, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6724	25.61
PRD18-14DN	18	14	NPN, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6721	25.61
PRD18-14DP	18	14	PNP, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6722	25.61

(148692)

ELECTRIC CAPACITIVE PROXIMITY SENSORS

Just Added

Autonics
Sensors & Controllers

CR18

CR30

- Able to detect iron, metal, plastic, water, stone, wood, etc.
- Long life cycle and high reliability
- Reverse power polarity, surge, overcurrent protection
- Easy to adjust the sensing distance with sensitivity adjuster
- Red LED status indication
- Easy to control of level and position

18mm HOUSING

Mfg. Part No.	Body Dia. (mm)	Sensing Distance (mm)	Output Type	Supply Voltage	Connection Type	Stock No.	Price Each 1-4
CR18-8DP	18	8	PNP, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6706	62.77
CR18-8AC	18	8	NC	100-240 VAC	2 Meter - 2 Wire Cable	10R6704	100.45
CR18-8AO	18	8	NO	100-240 VAC	2 Meter - 2 Wire Cable	10R6705	100.45
30mm HOUSING							
CR30-15DP	30	15	PNP, NO	12-24 VDC	2 Meter - 3 Wire Cable	10R6709	98.25
CR30-15AC	30	15	NC	100-240 VAC	2 Meter - 2 Wire Cable	10R6707	131.91
CR30-15AO	30	15	NO	100-240 VAC	2 Meter - 2 Wire Cable	10R6708	131.91

(148689)

GLOBAL SERIES INDUCTIVE SENSORS

Just Added

EATON

- Cost effective inductive sensor for high volume use
- Available in industry-standard 8, 12, 18 or 30mm diameters
- DC models available in 2-wire or 3-wire (NPN or PNP) operate on 10-30 VDC
- AC models operate on 20-250 VAC
- Switching frequence of 2 kHz for DC models
- Shielded and unshielded models available
- Models available in either 6.5 ft. (2m) cable or 4-pin euro quick-disconnect

DC Models Only

The Cutler-Hammer Global Series inductive proximity sensor family was designed by Eaton's electrical business as the optimal solution for high volume OEM customers. It has been developed to include the basic functions for high sensing reliability, at the price you need. The Global Series line offers 8, 12, 18 and 30mm diameter connectorized and cable versions with a bright LED indicator to show output status. Nickel-plated brass housing, IP67 degree of protection, CE and cCSAus certified.

3-WIRE, SHIELDED, 10-30 VDC OPERATING VOLTAGE

Mfg. Part No.	Sensing Face Diameter (mm)	Sensing Range (mm)	Output Type	Connection Type	Stock No.	Price Each 1-4
E57-08GE03-C	8	3	NPN, NO	6.5 ft. (2m) Cable	63P9094	77.34
E57-08GE03-CDB	8	3	NPN, NO	4-Pin Micro QD	63P9095	80.39
E57-08GBE03-C	8	3	NPN, NC	6.5 ft. (2m) Cable	63P9093	80.39
E57-08GE03-G	8	3	PNP, NO	6.5 ft. (2m) Cable	63P9096	77.34
E57-08GE03-GDB	8	3	PNP, NO	4-Pin Micro QD	63P9097	80.39
E57-12GS02-C	12	2	NPN, NO	6.5 ft. (2m) Cable	47K6732	51.39
E57-12GS02-CDB	12	2	NPN, NO	4-Pin Micro QD	47K6733	53.94
E57-12GS02-G	12	2	PNP, NO	6.5 ft. (2m) Cable	47K6741	51.39
E57-12GS02-GDB	12	2	PNP, NO	4-Pin Micro QD	47K6742	53.94
E57-12GE05-C	12	5	NPN, NO	6.5 ft. (2m) Cable	63P9102	71.24
E57-12GE05-CDB	12	5	NPN, NO	4-Pin Micro QD	63P9103	78.87
E57-12GE05-G	12	5	PNP, NO	6.5 ft. (2m) Cable	63P9104	71.24
E57-12GE05-GDB	12	5	PNP, NO	4-Pin Micro QD	63P9105	78.87
E57-18GS05-C	18	5	NPN, NO	6.5 ft. (2m) Cable	47K6789	60.04
E57-18GS05-CDB	18	5	NPN, NO	4-Pin Micro QD	47K6790	62.59
E57-18GS05-G	18	5	PNP NO	6.5 ft. (2m) Cable	47K6800	60.04
E57-18GS05-GDB	18	5	PNP NO	4-Pin Micro QD	47K6801	62.59
E57-18GE08-C	18	8	NPN, NO	6.5 ft. (2m) Cable	63P9111	77.85
E57-18GE08-CDB	18	8	NPN, NO	4-Pin Micro QD	63P9112	83.45
E57-18GE08-G	18	8	PNP, NO	6.5 ft. (2m) Cable	63P9113	77.85
E57-18GE08-GDB	18	8	PNP, NO	4-Pin Micro QD	63P9114	83.45
E57-30GS10-C	30	10	NPN, NO	6.5 ft. (2m) Cable	47K6859	72.76
E57-30GS10-CDB	30	10	NPN, NO	4-Pin Micro QD	47K6860	74.80
E57-30GS10-G	30	10	PNP, NO	6.5 ft. (2m) Cable	47K6867	72.76
E57-30GS10-GDB	30	10	PNP, NO	4-Pin Micro QD	47K6868	74.80
E57-30GE15-C	30	15	NPN, NO	6.5 ft. (2m) Cable	63P9119	91.08
E57-30GE15-CDB	30	15	NPN, NO	4-Pin Micro QD	63P9120	96.17
E57-30GE15-G	30	15	PNP, NO	6.5 ft. (2m) Cable	63P9121	91.08
E57-30GE15-GDB	30	15	PNP, NO	4-Pin Micro QD	63P9122	96.17
3-WIRE, UNSHIELDED, 10-30 VDC OPERATING VOLTAGE						
E57-08GE06-C	8	6	NPN, NO	6.5 ft. (2m) Cable	63P9098	69.20
E57-08GE06-CDB	8	6	NPN, NO	4-Pin Micro QD	63P9099	74.80
E57-08GE06-G	8	6	PNP, NO	6.5 ft. (2m) Cable	63P9100	69.20
E57-08GE06-GDB	8	6	PNP, NO	4-Pin Micro QD	63P9101	74.80
E57-12GE10-C	12	10	NPN, NO	6.5 ft. (2m) Cable	63P9106	70.22
E57-12GE10-CDB	12	10	NPN, NO	4-Pin Micro QD	63P9108	77.85
E57-12GE10-G	12	10	PNP, NO	6.5 ft. (2m) Cable	63P9109	70.22
E57-12GE10-GDB	12	10	PNP, NO	4-Pin Micro QD	63P9110	77.85
E57-18GE18-C	18	18	NPN, NO	6.5 ft. (2m) Cable	63P9115	76.83
E57-18GE18-CDB	18	18	NPN, NO	4-Pin Micro QD	63P9116	82.43
E57-18GE18-G	18	18	PNP, NO	6.5 ft. (2m) Cable	63P9117	76.83
E57-18GE18-GDB	18	18	PNP, NO	4-Pin Micro QD	63P9118	82.43
E57-30GE29-C	30	29	NPN, NO	6.5 ft. (2m) Cable	63P9123	89.55
E57-30GE29-CDB	30	29	NPN, NO	4-Pin Micro QD	63P9124	95.15
E57-30GE29-G	30	29	PNP, NO	6.5 ft. (2m) Cable	63P9125	89.55
E57-30GE29-GDB	30	29	PNP, NO	4-Pin Micro QD	63P9126	95.15
2-WIRE, SHIELDED, 10-30 VDC OPERATING VOLTAGE						
E57-12GS02-D	12	2	NPN/PNP NO	6.5 ft. (2m) Cable	47K6734	78.87
E57-12GS02-DDB	12	2	NPN/PNP NO	4-Pin Micro QD	47K6735	82.43
E57-12GE08-D	12	8	NPN/PNP NO	6.5 ft. (2m) Cable	47K6725	98.71
E57-12GE08-DDB	12	8	NPN/PNP NO	4-Pin Micro QD	47K6726	102.78
E57-12GE08-D1	12	8	NPN/PNP NC	6.5 ft. (2m) Cable	47K6727	98.71
E57-12GE08-D1DB	12	8	NPN/PNP NC	4-Pin Micro QD	47K6728	102.78

➤ CONTINUED ➤

SENSORS – PROXIMITY

GLOBAL SERIES INDUCTIVE SENSORS (CONT.)

2-WIRE, SHIELDED, 10-30 VDC OPERATING VOLTAGE

Mfg. Part No.	Sensing Face Diameter (mm)	Sensing Range (mm)	Output Type	Connection Type	Stock No.	Price Each 1-4
E57-18GS05-D	18	5	NPN/PNP NO	6.5 ft. (2m) Cable	47K6791	91.08
E57-18GS05-DDB	18	5	NPN/PNP NO	4-Pin Micro QD	47K6792	94.13
E57-18GE16-D	18	16	NPN/PNP NO	6.5 ft. (2m) Cable	47K6782	121.10
E57-18GE16-DDB	18	16	NPN/PNP NO	4-Pin Micro QD	47K6783	124.15
E57-18GE16-D1	18	16	NPN/PNP NC	6.5 ft. (2m) Cable	47K6784	121.10
E57-18GE16-D1DB	18	16	NPN/PNP NC	4-Pin Micro QD	47K6785	124.15
E57-30GS10-D	30	10	NPN/PNP NO	6.5 ft. (2m) Cable	47K6861	96.17
E57-30GS10-DDB	30	10	NPN/PNP NO	4-Pin Micro QD	47K6862	98.71
E57-30GE25-D	30	25	NPN/PNP NC	6.5 ft. (2m) Cable	47K6850	127.20
E57-30GE25-DDB	30	25	NPN/PNP NO	4-Pin Micro QD	47K6851	131.27
E57-30GE25-D1	30	25	NPN/PNP NC	6.5 ft. (2m) Cable	47K6852	127.20
2-WIRE, SHIELDED, 20-250 VAC OPERATING VOLTAGE						
E57-12GS02-A	12	2	NO	6.5 ft. (2m) Cable	47K6730	94.13
E57-12GS02-AAB	12	2	NO	3-Pin Micro QD	47K6731	98.71
E57-18GS05-A	18	5	NO	6.5 ft. (2m) Cable	47K6787	98.71
E57-18GS05-AAB	18	5	NO	3-Pin Micro QD	47K6788	104.82
E57-30GS10-A	30	10	NO	6.5 ft. (2m) Cable	47K6856	117.03
E57-30GS10-AAB	30	10	NO	3-Pin Micro QD	47K6857	121.10
2-WIRE, UNSHIELDED, 20-250 VAC OPERATING VOLTAGE						
E57-12GU04-A	12	4	NO	6.5 ft. (2m) Cable	47K6743	94.13
E57-12GU04-AAB	12	4	NO	3-Pin Micro QD	47K6744	98.71
E57-18GU08-A	18	8	NO	6.5 ft. (2m) Cable	47K6802	98.71
E57-18GU08-AAB	18	8	NO	3-Pin Micro QD	47K6803	110.92
E57-30GU15-A	30	15	NO	6.5 ft. (2m) Cable	47K6869	117.03
E57-30GU15-AAB	30	15	NO	3-Pin Micro QD	47K6870	121.10

MOUNTING BRACKETS

Mfg. Part No.	Description	Stock No.	Price Each
E57KM12	Right Angle Mounting Bracket for 12mm Diameter Sensors, Stainless Steel	47K6985	6.41
E57KM18	Right Angle Mounting Bracket for 18mm Diameter Sensors, Stainless Steel	47K6986	6.41

CONNECTOR CABLES

CSDS4A4CY2202	4-Pin Micro DC Cordset, 6.5 ft. (2m), 22 AWG	46K1910	15.51
CSAS3F3CY2202	3-Pin Micro AC Cordset, 6.5 ft. (2m), 22 AWG	30K7253	19.62
CSAS3F3CY2205	3-Pin Micro AC Cordset, 16 ft. (5m), 22 AWG	30K7254	28.71

(142268)

7

GLOBAL PLUS INDUCTIVE PROXIMITY SENSORS

Proximity Sensors

Connector Cable

- Most cost-effective inductive proximity sensor on the market
- Choose from cable or connector versions
- 4 LED indicators on all connector versions, single LED indicator on cable versions
- Short-circuit protection on all DC models

The Cutler-Hammer® Global Plus Proximity Sensor Family was designed by Eaton's Electrical business as the optimal solution for high volume OEM customers. It has been optimized to include the basic functions for high sensing reliability, at the price you need. The Global Plus line offers 8, 12, 18 and 30mm diameter connectorized and cable versions with a bright LED indicator to show output status. Nickel-plated brass housing. IP67 degree of protection. CE certified.

SPECIFICATIONS	AC MODELS	DC MODELS
Max. Output Current	500mA	8mm: 100mA 12, 18, 30mm: 200mA
Max. Switching Frequency	10Hz	8mm: 1KHz (Shielded); 600Hz (Unshielded) 12mm: 800Hz (Shielded); 500Hz (Unshielded) 18mm: 500Hz (Shielded); 200Hz (Unshielded) 30mm: 300Hz (Shielded); 100Hz (Unshielded

3-WIRE, SHIELDED 10-30VDC OPERATING VOLTAGE

Mfg. Part No.	Sensing Face Dia (mm)	Sensing Range (mm)	Output Type	Connection Type	Stock No.	Price Each 1-9
E57-08PAS15-C	8	1.5	NPN, NO	2-Meter Cable	30K7257	44.21
E57-08PAS15-CD	8	1.5	NPN, NO	4-Pin Micro DC Connector	30K7258	44.21
E57-08PAS15-G	8	1.5	PNP, NO	2-Meter Cable	30K7259	44.21
E57-08PAS15-GD	8	1.5	PNP, NO	4-Pin Micro DC Connector	30K7260	44.21
E57-08PBS15-C	8	1.5	NPN, NC	2-Meter Cable	30K7265	44.21
E57-08PBS15-CD	8	1.5	NPN, NC	4-Pin Micro DC Connector	30K7266	44.21

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GLOBAL PLUS INDUCTIVE PROXIMITY SENSORS (CONT.)

Mfg. Part No.	Sensing Face Dia (mm)	Sensing Range (mm)	Output Type	Connection Type	Stock No.	Price Each 1-9
E57-08PBS15-G	8	1.5	PNP, NC	2-Meter Cable	30K7267	44.21
E57-08PBS15-GD	8	1.5	PNP, NC	4-Pin Micro DC Connector	30K7268	44.21
E57-12PAS02-C	12	2	NPN, NO	2-Meter Cable	30K7275	44.21
E57-12PAS02-CD	12	2	NPN, NO	4-Pin Micro DC Connector	30K7276	44.21
E57-12PAS02-G	12	2	PNP, NO	2-Meter Cable	30K7277	44.21
E57-12PAS02-GD	12	2	PNP, NO	4-Pin Micro DC Connector	30K7278	44.21
E57-12PBS02-C	12	2	NPN, NC	2-Meter Cable	30K7287	44.21
E57-12PBS02-CD	12	2	NPN, NC	4-Pin Micro DC Connector	30K7288	44.21
E57-12PBS02-G	12	2	PNP, NC	2-Meter Cable	30K7289	44.21
E57-12PBS02-GD	12	2	PNP, NC	4-Pin Micro DC Connector	30K7290	44.21
E57-18PAS05-C	18	5	NPN, NO	2-Meter Cable	30K7299	44.21
E57-18PAS05-CD	18	5	NPN, NO	4-Pin Micro DC Connector	30K7300	44.21
E57-18PAS05-G	18	5	PNP, NO	2-Meter Cable	30K7301	44.21
E57-18PAS05-GD	18	5	PNP, NO	4-Pin Micro DC Connector	30K7302	44.21
E57-18PBS05-C	18	5	NPN, NC	2-Meter Cable	30K7311	44.21
E57-18PBS05-CD	18	5	NPN, NC	4-Pin Micro DC Connector	30K7312	44.21
E57-18PBS05-G	18	5	PNP, NC	2-Meter Cable	30K7313	44.21
E57-18PBS05-GD	18	5	PNP, NC	4-Pin Micro DC Connector	30K7314	44.21
E57-30PAS10-GD	30	10	PNP, NO	4-Pin Micro DC Connector	30K7320	55.29
3-WIRE, UNSHIELDED, 10-30VDC OPERATING VOLTAGE						
E57-08PAU02-C	8	2	NPN, NO	2-Meter Cable	30K7261	44.21
E57-08PAU02-CD	8	2	NPN, NO	4-Pin Micro DC Connector	30K7262	44.21
E57-08PAU02-G	8	2	PNP, NO	2-Meter Cable	30K7263	44.21
E57-08PAU02-GD	8	2	PNP, NO	4-Pin Micro DC Connector	30K7264	44.21
E57-08PBU02-C	8	2	NPN, NC	2-Meter Cable	30K7269	44.21
E57-08PBU02-CD	8	2	NPN, NC	4-Pin Micro DC Connector	30K7270	44.21
E57-08PBU02-G	8	2	PNP, NC	2-Meter Cable	30K7271	44.21
E57-08PBU02-GD	8	2	PNP, NC	4-Pin Micro DC Connector	30K7272	44.21
E57-12PAU04-C	12	4	NPN, NO	2-Meter Cable	30K7281	44.21
E57-12PAU04-CD	12	4	NPN, NO	4-Pin Micro DC Connector	30K7282	44.21
E57-12PAU04-G	12	4	PNP, NO	2-Meter Cable	30K7283	44.21
E57-12PAU04-GD	12	4	PNP, NO	4-Pin Micro DC Connector	30K7284	44.21
E57-12PBU04-C	12	4	NPN, NC	2-Meter Cable	30K7293	44.21
E57-12PBU04-CD	12	4	NPN, NC	4-Pin Micro DC Connector	30K7294	44.21
E57-12PBU04-G	12	4	PNP, NC	2-Meter Cable	30K7295	44.21
E57-12PBU04-GD	12	4	PNP, NC	4-Pin Micro DC Connector	30K7296	44.21
E57-18PAU08-C	18	8	NPN, NO	2-Meter Cable	30K7305	44.21
E57-18PAU08-CD	18	8	NPN, NO	4-Pin Micro DC Connector	30K7306	44.21
E57-18PAU08-G	18	8	PNP, NO	2-Meter Cable	30K7307	44.21
E57-18PAU08-GD	18	8	PNP, NO	4-Pin Micro DC Connector	30K7308	44.21
E57-18PBU08-C	18	8	NPN, NC	2-Meter Cable	30K7317	44.21
E57-18PBU08-G	18	8	PNP, NC	2-Meter Cable	30K7318	44.21
E57-18PBU08-GD	18	8	PNP, NC	4-Pin Micro DC Connector	30K7319	44.21
E57-30PAU15-GD	30	15	PNP, NO	4-Pin Micro DC Connector	30K7321	55.29
2-WIRE, SHIELDED, 20-250VAC OPERATING VOLTAGE						
E57-12PAS02-A	12	2	NO	2-Meter Cable	30K7273	63.55
E57-12PAS02-AD	12	2	NO	3-Pin Micro AC Connector	30K7274	74.61
E57-12PBS02-A	12	2	NC	2-Meter Cable	30K7285	63.55
E57-12PBS02-AD	12	2	NC	3-Pin Micro AC Connector	30K7286	74.61
E57-18PAS05-A	18	5	NO	2-Meter Cable	30K7297	55.29
E57-18PAS05-AD	18	5	NO	3-Pin Micro AC Connector	30K7298	59.42
E57-18PBS05-A	18	5	NC	2-Meter Cable	30K7309	55.29
E57-18PBS05-AD	18	5	NC	3-Pin Micro AC Connector	30K7310	59.42
2-WIRE, UNSHIELDED, 20-250VAC OPERATING VOLTAGE						
E57-12PAU04-A	12	4	NO	2-Meter Cable	30K7279	63.55
E57-12PAU04-AD	12	4	NO	3-Pin Micro AC Connector	30K7280	74.61
E57-12PBU04-A	12	4	NC	2-Meter Cable	30K7291	63.55
E57-12PBU04-AD	12	4	NC	3-Pin Micro AC Connector	30K7292	74.61
E57-18PAU08-A	18	8	NO	2-Meter Cable	30K7303	55.29
E57-18PAU08-AD	18	8	NO	3-Pin Micro AC Connector	30K7304	59.42
E57-18PBU08-A	18	8	NC	2-Meter Cable	30K7315	55.29
E57-18PBU08-AD	18	8	NC	3-Pin Micro AC Connector	30K7316	59.42

CABLES FOR MICRO-CONNECTOR OR QUICK-DISCONNECT SENSORS
PVC jacket. UL listed, c-UL recognized.

Mfg. Part No.	Description	Cable Length (m)	Wire Size (AWG)	Stock No.	Price Each 1-9
CSAS3F3CY2202	3-pin Micro AC	2	22	30K7253	19.62
CSAS3F3CY2205	3-pin Micro AC	5	22	30K7254	28.71
CSDS4A3CY2202	4-pin Micro DC	2	22	30K7255	17.30
CSDS4A3CY2205	4-pin Micro DC	5	22	30K7256	20.87

(84769)

ACCUPROX™ ANALOG INDUCTIVE PROXIMITY SENSORS

- Extended linear sensing range of up to 25mm (3 times longer that standard tubular analog inductive sensors)
- Outputs available in current (4-20mA or 0-20mA) and voltage (0-10V)
- High output resolution and repeatability for applications requiring precision sensing performance
- Ideal for extreme temperature or high pressure washdown environments
- High noise immunity of 20mV/m prevents many problems associated with electrical noise

AccuProx™ high performance analog inductive proximity sensors provide unmatched sensing range, linearity and resolution in an affordable and compact tubular package. The Electrical signal varies in proportion to the position of the metal target within its sensing range making them ideal for applications requiring precise position sensing and measurements. Robust stainless steel barrel, shock-resistant cap, polycarbonate end bell and impact-absorbing potting compound. Operating voltage: 15-30VDC.

SHIELDED

Mfg. Part No.	Sensing Face Dia. (mm)	Sensing Range (mm)	Connector Type	Output Type	Stock No.	Price Each 1-9
E59-A12A104C02-CV	12	4	2-meter Cable	Voltage & Current	32M6624	381.38
E59-A12A104D01-CV	12	4	4-Pin Micro	Voltage & Current	32M6625	203.50
E59-A12A104D01-C1	12	4	4-Pin Micro	Current	32M6626	200.73
E59-A18A107C02-CV	18	7	2-meter Cable	Voltage & Current	32M6630	423.56
E59-A18A107D01-CV	18	7	4-Pin Micro	Voltage & Current	32M6631	224.78
E59-A18A107D01-C1	18	7	4-Pin Micro	Current	32M6632	220.15
E59-A30A112C02-CV	30	12	2-meter Cable	Voltage & Current	32M6636	448.17
E59-A30A112D01-CV	30	12	4-Pin Micro	Voltage & Current	32M6637	238.65
E59-A30A112D01-C1	30	12	4-Pin Micro	Current	32M6638	231.25
UNSHIELDED						
E59-A12C108C02-CV	12	8	2-meter Cable	Voltage & Current	32M6627	381.38
E59-A12C108D01-CV	12	8	4-Pin Micro	Voltage & Current	32M6628	203.50
E59-A12C108D01-C1	12	8	4-Pin Micro	Current	32M6629	200.73
E59-A18C115C02-CV	18	15	2-meter Cable	Voltage & Current	32M6633	423.56
E59-A18C115D01-CV	18	15	4-Pin Micro	Voltage & Current	32M6634	224.78
E59-A18C115D01-C1	18	15	4-Pin Micro	Current	32M6635	220.15
E59-A30C125C02-CV	30	25	2-meter Cable	Voltage & Current	32M6639	448.17
E59-A30C125D01-CV	30	25	4-Pin Micro	Voltage & Current	32M6640	238.65
E59-A30C125D01-C1	30	25	4-Pin Micro	Current	32M6641	231.25

(90450)

EATON 2-WIRE AND 3-WIRE SHORT BARREL INDUCTIVE PROXIMITY SENSORS

- 360° viewable LED
- Operating temperature: -25°C to 70°C
- Shielded and unshielded models
- 3 diameters 12mm, 18mm and 30mm

18 mm

30 mm

These sensors are manufactured to take physical and environmental abuse. Designed with stainless barrel and impact-absorbing new potting compound for robust, high pressure washdown, as well as intense shock and vibration applications. Resettable short circuit protection in AC/DC and DC models. Operating Voltage: 2-Wire AC/DC 40-250 VAC, 20-250 VDC, 3-Wire DC 6-48 VDC. Cable models include an extra long 5-meter cable as option.

2-WIRE AC/DC SENSORS 40-250VAC, 20-250 VDC

Mfg. Part No.	Sensor Diameter (mm)	Sensing Range (mm)	Connection Type	Output Type	Stock No.	Price Each 1-4
E57SAL12A2	12	2	2-meter Cable	NO	47K7217	151.36
E57SAL12A2SA	12	2	3-pin Micro	NO	47K7220	329.75
E57SBL12A2	12	2	2-meter Cable	NC	47K7267	151.36
E57SBL12A2SA	12	2	3-pin Micro	NC	47K7270	329.75
E57SAL12A2E	12	4	2-meter Cable	NO	47K7218	151.36
E57SAL12A2EA	12	4	3-pin Micro	NO	47K7219	329.75
E57SBL12A2E	12	4	2-meter Cable	NC	47K7268	303.81
E57SBL12A2EA	12	4	3-pin Micro	NC	47K7269	329.75
E57SAL18A2	18	5	2-meter Cable	NO	47K7233	137.97
E57SAL18A2SA	18	5	3-pin Micro	NO	47K7236	298.26
E57SBL18A2	18	5	2-meter Cable	NC	47K7281	137.97
E57SBL18A2SA	18	5	3-pin Micro	NC	47K7283	298.26
E57SBL18A2EA	18	8	3-pin Micro	NC	84K7829	274.17
E57SAL18A2E	18	8	2-meter Cable	NO	47K7234	137.97
E57SAL18A2EA	18	8	3-pin Micro	NO	47K7235	298.26
E57SBL18A2E	18	8	2-meter Cable	NC	47K7282	277.88
E57SAL30A2	30	10	2-meter Cable	NO	47K7251	140.03
E57SAL30A2SA	30	10	3-pin Micro	NO	47K7254	288.99

➤ CONTINUED ➤

EATON 2-WIRE AND 3-WIRE SHORT BARREL INDUCTIVE PROXIMITY SENSORS (CONT.)

Mfg. Part No.	Sensor Diameter (mm)	Sensing Range (mm)	Connection Type	Output Type	Stock No.	Price Each 1-4
E57SBL30A2SA	30	10	3-pin Micro	NC	84K7833	281.58
E57SAL30A2E	30	15	2-meter Cable	NO	47K7252	140.03
E57SAL30A2EA	30	15	3-pin Micro	NO	47K7253	288.99
E57SBL30A2EA	30	15	3-pin Micro	NC	84K7832	257.50
E57SBL30A2E	30	15	2-meter Cable	NC	47K7294	281.58
3-WIRE DC SENSORS 6-48VDC						
E57SAL12T110	12	2	2-meter Cable	NPN, NO	47K7225	108.11
E57SAL12T110SD	12	2	4-pin Micro	NPN, NO	47K7228	108.11
E57SAL12T111SD	12	2	4-pin Micro	PNP, NO	47K7232	108.11
E57SBL12T111	12	2	2-meter Cable	PNP, NC	47K7277	216.75
E57SBL12T111SD	12	2	4-pin Micro	PNP, NC	47K7280	216.75
E57SAL12T110E	12	4	2-meter Cable	NPN, NO	47K7226	108.11
E57SAL12T110ED	12	4	4-pin Micro	NPN, NO	47K7227	108.11
E57SAL12T111ED	12	4	4-pin Micro	PNP, NO	47K7231	108.11
E57SBL12T110E	12	4	2-meter Cable	NPN, NC	47K7275	216.75
E57SBL12T110ED	12	4	4-pin Micro	NPN, NC	47K7276	216.75
E57SBL12T111E	12	4	2-meter Cable	PNP, NC	47K7278	216.75
E57SBL12T111ED	12	4	4-pin Micro	PNP, NC	47K7279	216.75
E57SAL18T110	18	5	2-meter Cable	NPN, NO	47K7243	118.41
E57SAL18T110SD	18	5	4-pin Micro	NPN, NO	47K7246	118.41
E57SAL18T111	18	5	2-meter Cable	PNP, NO	47K7247	118.41
E57SAL18T111SD	18	5	4-pin Micro	PNP, NO	47K7250	118.41
E57SBL18T111SD	18	5	4-pin Micro	PNP, NC	84K7831	218.60
E57SBL18T110	18	5	2-meter Cable	NPN, NC	47K7287	240.83
E57SBL18T110SD	18	5	4-pin Micro	NPN, NC	47K7290	240.83
E57SBL18T111	18	5	2-meter Cable	PNP, NC	47K7291	240.83
E57SAL18T110E	18	8	2-meter Cable	NPN, NO	47K7244	118.41
E57SAL18T110ED	18	8	4-pin Micro	NPN, NO	47K7245	118.41
E57SAL18T111E	18	8	2-meter Cable	PNP, NO	47K7248	118.41
E57SAL18T111ED	18	8	4-pin Micro	PNP, NO	47K7249	118.41
E57SBL18T111ED	18	8	4-pin Micro	PNP, NC	84K7830	218.60
E57SBL18T110E	18	8	2-meter Cable	NPN, NC	47K7288	240.83
E57SBL18T110ED	18	8	4-pin Micro	NPN, NC	47K7289	240.83
E57SBL18T111E	18	8	2-meter Cable	PNP, NC	47K7292	240.83
E57SAL30T110	30	10	2-meter Cable	NPN, NO	47K7259	140.03
E57SAL30T110E	30	15	2-meter Cable	NPN, NO	47K7260	140.03
E57SAL30T110ED	30	15	4-pin Micro	NPN, NO	47K7261	140.03
E57SAL30T110SD	30	10	4-pin Micro	NPN, NO	47K7262	140.03
E57SAL30T111	30	10	2-meter Cable	PNP, NO	47K7263	140.03
E57SAL30T111E	30	15	2-meter Cable	PNP, NO	47K7264	140.03
E57SAL30T111ED	30	15	4-pin Micro	PNP, NO	47K7265	140.03
E57SAL30T111SD	30	10	4-pin Micro	PNP, NO	47K7266	140.03
E57SBL30T110	30	10	2-meter Cable	NPN, NC	84K7835	281.58
E57SBL30T110SD	30	10	4-pin Micro	NPN, NC	84K7838	281.58
E57SBL30T111	30	10	2-meter Cable	PNP, NC	84K7839	281.58
E57SBL30T111SD	30	10	4-pin Micro	PNP, NC	84K7842	281.58
E57SBL30T110E	30	15	2-meter Cable	NPN, NC	84K7836	281.58
E57SBL30T110ED	30	15	4-pin Micro	NPN, NC	84K7837	281.58
E57SBL30T111E	30	15	2-meter Cable	PNP, NC	84K7840	281.58
E57SBL30T111ED	30	15	4-pin Micro	PNP, NC	84K7841	281.58

STANDARD CABLE - MICRO STYLE

Mfg. Part No.	Voltage Style	Number of Pins	Wire Size (AWG)	Length	Stock No.	Price Each 1-9	Price Each 10-24
CSAS3F3CY2202	AC	3	22	2m(6ft.)	30K7253	19.62	18.31

(88424)

iPROX INTELLIGENT INDUCTIVE PROXIMITY SENSORS

12 mm

18 mm

30 mm

- Auto configures to sinking (NPN) or sourcing (PNP) when wired
- Stainless steel tubes with shock resistant front caps
- Bright dual color 360° status LED, green for power, red for output
- Extended sensing ranges, double that of standard proximity sensors

This full featured proximity sensor combines extended ranges with ruggedness to solve even the toughest applications. It's high vibration absorbing potting compound ensures a longer sensor life and superior resistance to high pressure wash downs and corrosive environments. The DC models make installation easy by sensing whether it needs to NPN or PNP, then auto configuring to that mode. This allows for one sensor to be used in either application. Superior temperature range of -40°C to 70°C. High noise immunity level of 10 v/m.

➤ CONTINUED ➤

SENSORS – PROXIMITY

iPROX INTELLIGENT INDUCTIVE PROXIMITY SENSORS (CONT.)

2-WIRE SENSORS 20 - 132 VAC

Mfg. Part No.	Output Type	Sensing Range (mm)	Connector Type	Stock No.	Price Each 1-9
E59-M18C118C02-A2	NC	18	2-meter Cable	47K7644	131.43
E59-M30A115A01-A1	NO	15	3-Pin Micro	47K7645	152.42
E59-M30A115A01-A2	NC	15	3-Pin Micro	47K7646	152.42
E59-M30A115C02-A1	NO	15	2-meter Cable	47K7651	134.75
E59-M30A115C02-A2	NC	15	2-meter Cable	47K7652	134.75
E59-M30C129A01-A1	NO	29	3-Pin Micro	47K7659	152.42
E59-M30C129A01-A2	NC	29	3-Pin Micro	47K7660	152.42
E59-M30C129C02-A1	NO	29	2-meter Cable	47K7666	140.85
3-WIRE SENSORS 6 - 48VDC					
E59-M12A105D01-D1	NO	4	4-Pin Micro	47K7601	82.26
E59-M12A105C02-D2	NC	4	2-meter Cable	51M4857	83.95
E59-M12C110D01-D2	NC	10	4-Pin Micro	47K7616	113.77
E59-F18A108D01-D1	NO	8	4-Pin Micro	47K7538	150.21
E59-M18C116D01-D1	NO	16	4-Pin Micro	51M4881	79.87
E59-M18C116C02-D2	NC	18	2-meter Cable	51M4878	98.60
E59-M30A115D01-D1	NO	15	4-Pin Micro	47K7655	95.04
E59-M30A115D01-D2	NC	15	4-Pin Micro	47K7656	131.43
E59-F30A115C02-D1	NO	15	2-meter Cable	47K7572	103.28
E59-M30C129D01-D1	NO	29	4-Pin Micro	47K7670	98.83
E59-M30C129C02-D1	NO	25	2-meter Cable	47K7668	86.00

STANDARD CABLE - MICRO STYLE PVC JACKET

Mfg. Part No.	Voltage Style	Number of Pins	Gauge	Length	Stock No.	Price Each 1-9
CSDS4A4CY2202	DC	4-pin 4-wire	22 AWG	6.0ft. (2m)	46K1910	15.51

(88661)

HARSH DUTY PHOTOELECTRIC SENSORS

30 mm

- Thru-beam sensors operating voltage: 20-132VAC, 15-30VDC
- Optimum range: 0.1 to 300ft, (0.03 - 90m)
- Perfect Prox® sensors operating voltage: 90-132VAC, 18-50VDC
- 30 mm diameters

Connector Version

- Tempered glass lens cover
- 360° output indicator
- High temperature, high pressure washdown (1200 psi)
- Thru-beam component source

Design to withstand the harshest physical, chemical and optical environments. Ideal for automotive applications where exposure to lubricants, cutting fluids, coolants and glycols is common. Withstands the use of sanitizers, surfactants, and cleaning agents including diluted bases and acids.

THRU-BEAM SENSORS

Mfg. Part No.	Sensing Range (m)	Connector Type	Thru-Beam Component	Stock No.	Price Each 1-4
E58-30TS250-GA	250	2-meter Cable	Source	47K7456	240.15
E58-30TS250-GAP	250	4-pin Micro AC Connector	Source	47K7459	274.11
E58-30TD250-GD	250	2-meter Cable	Detector	47K7423	279.08
E58-30TD250-GDP	250	4-pin Micro AC Connector	Detector	47K7425	309.71
E58-30TD250-GL	250	2-meter Cable	Detector	47K7428	279.08
E58-30TD250-GLP	250	4-pin Micro AC Connector	Detector	47K7431	309.71

PERFECT PROX® SENSORS

Mfg. Part No.	Sensing Range (m)	Connector Type	Operate	Stock No.	Price Each 1-4
E58-30DPS280-ED	280	2-meter Cable	Dark	47K7334	279.08
E58-30DPS280-EL	280	2-meter Cable	Light	47K7337	279.08
E58-30DP150-EDP	150	3-pin Micro AC Connector	Dark	47K7357	309.71
E58-30DP150-ELP	150	3-pin Micro AC Connector	Light	47K7360	309.71

(88692)

CABLE AMPLIFIER PROXIMITY SENSORS

RoHS Compliant Available

OMRON INDUSTRIAL AUTOMATION

Just Added

- Shielded sensor heads for 3-mm to M12 diameters that can be embedded in metal.
- Robotics cables provided as a standard feature (DC 2-Wire Models).
- Indicator provided in Amplifier cable for easy confirmation of operation.
- Power supply range of 12 to 24 VDC (10 to 30 VDC) for DC 2-Wire Models.
- Power supply range of 5 to 24 VDC (4.75 to 30 VDC) for DC 3-Wire Models.

DC 2-WIRE MODLES

Mfg. Part No.	Sensing Diameter	Sensing Range	Connector Type	Output Type	Stock No.	Price Each 1-9
● E2EC-CR8D1	3 mm	0.8 mm	Cable	NO	38B016	195.15
● E2EC-C1R5D1	5.4 mm	1.5 mm	Cable	NO	63M8708	204.74
DC 3-WIRE MODELS						
● E2EC-CR5C1	3 mm	0.5 mm	Cable	NPN, NO	16F9314	152.74

(148671)

LONG BODY INDUCTIVE PROXIMITY SENSORS

CE RoHS Compliant Available

OMRON INDUSTRIAL AUTOMATION

Increased tightening strength. Cable protectors provided as a standard feature. Increased indicator visibility. A milled section for wrench grip on all models.

Just Added

AC- 2 WIRE

Mfg. Part No.	Sensing Diameter	Sensing Range	Connection Type	Output Type	Stock No.	Price Each 1-9
E2E2-X2Y1-US	M12	2 mm	Prewired	NO	91F5948	98.47
● E2E2-X5Y1-US	M18	5 mm	Prewired	NO	91F5949	102.00
E2E2-X10Y1-US	M30	10 mm	Prewired	NO	10R5217	115.66
AC CONNECTOR VERSION						
● E2E2-X2Y1M4	M12	2 mm	M12 MICRO	NO	38B165	138.35
E2E2-X5Y1-M4	M18	5 mm	M12 MICRO	NO	10R5219	106.14
● E2E2-X10Y1M4	M30	10 mm	M12 MICRO	NO	38B146	167.96
DC-2 WIRE						
● E2E2-X3D1	M12	3 mm	Prewired	NO	91F5953	102.85
E2E2-X7D1	M18	7 mm	Prewired	NO	91F5954	131.94
E2E2-X10D1	M30	10 mm	Prewired	NO	91F5955	136.74
DC-3 WIRE						
● E2E2-X2B1	M12	2 mm	Prewired	PNP-NO	38B160	82.40
● E2E2-X5B1	M18	5 mm	Prewired	PNP-NO	38B170	106.37
E2E2-X10C1	M30	10 mm	Prewired	NPN-NO	38B131	111.95
E2E2-X10B1	M30	10 mm	Prewired	PNP-NO	38B129	111.95
DC CONNECTOR VERSION						
● E2E2-X2C1-M1	M12	2 mm	M12 MICRO	NPN-NO	91F5950	79.60
● E2E2-X2B1-M1	M12	2 mm	M12 MICRO	PNP-NO	91F5951	79.60
● E2E2-X5C1-M1	M18	5 mm	M12 MICRO	NPN-NO	27M2362	82.54
E2E2-X5B1-M1	M18	5 mm	M12 MICRO	PNP-NO	10R5218	82.54
E2E2-X10C1-M1	M30	10 mm	M12 MICRO	NPN-NO	10R5216	86.10
E2E2-X10B1-M1	M30	10 mm	M12 MICRO	PNP-NO	10R5215	86.10

(148584)

Expert technical support

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

(148838)

E2FM STAINLESS STEEL INDUCTIVE PROXIMITY SENSORS

RoHS Compliant Available

OMRON INDUSTRIAL AUTOMATION

- Chemical-resistant 303 stainless steel case reduces failure from corrosion
- 0.8mm thick sensing face withstands repeated scouring to remove weld spatter
- Flush mountable in ferrous materials to protect sensor from side impact damage
- M12 connectors simplify installation and shorten service time
- IP67 rated for washdown

Operating voltage: 10-30VDC. Output type: NO with or without polarity. Load rating: 3-100mA, 3V residual with polarity, 3-100mA, 5V residual without polarity. Leakage current: 0.8mA. DC surge suppressor, load short-circuit protection. 3-wire DC proximity sensors also available; *go online or call.*

Mfg. Part No.	Sensor Diameter (mm)	Sensing Range (mm)	Stock No.	Price Each 1-4	Price Each 5-14
E2FM-X1R5D1-M1GJ	8	1.5	22M3775	120.24	115.92
E2FM-X2D1-M1GJ 0.3M	12	2	22M3776	123.58	119.14
E2FM-X5D1-M1GJ 0.3M	18	5	22M3777	140.43	135.39

(90224)

E2C MINIATURE INDUCTIVE PROXIMITY SENSORS

OMRON INDUSTRIAL AUTOMATION

E2C sensors detect metal objects and feature a separate amplifier that allows sensor to fit in space-confined areas. Detecting distance and differential travel can be adjusted to meet specific application requirements. Require separate amplifier, *order separately, below.*

MINIATURE SENSORS

Mfg. Part No.	Sensing Range (mm)	Sensing Diameter (mm)	Connector Type	Output Type	Stock No.	Price Each 1-14
E2CCR5B	0.5	2.0	Cable	NPN, NO/NC	37B9992	145.68
E2CC1A	1	5.4	Cable	NPN, NO/NC	37B9994	114.54
E2C-X1R5A	1.5	M8	Cable	NPN, NO/NC	38B008	107.24

AMPLIFIERS

Mfg. Part No.	For Use With	Output Type	Stock No.	Price Each 1-14
E2C-GE4A	E2C-CR8A, E2C-C1A, E2C-X1R5A	NPN	37B9999	163.86
E2C-GF4A	E2C-CR8A, E2C-C1A, E2C-X1R5A	PNP	50B6291	163.86
E2C-GE4B	E2C-CR5B	NPN	38B001	163.86

(88484)

SHORT BODY INDUCTIVE PROXIMITY SENSORS

Just Added

RoHS Compliant Available

OMRON INDUSTRIAL AUTOMATION

NEMA

E2E proximity sensors detect ferrous metal objects. Packaged in threaded, cylindrical nickel-plated housing. All are normally open. All are shielded for reliable sensing even when mounted near metal housings. All feature operation indicators include mounting nuts. Rated NEMA 1, 4, 6, 12, 13 and IP67. Mounting accessories and protective silicone covers are also available; *go online or call.*

AC-2 WIRE

Input voltage: 24-240VAC, switching to 300mA. Mfg. part numbers with **-53-US suffix** are short-circuit protected. Prewired with 6.5 feet (2 meters) cable. UL recognized. **-US suffix** are CSA certified. Dimensions and sensing ranges are in inches and (mm).

➤ CONTINUED ➤

SHORT BODY INDUCTIVE PROXIMITY SENSORS (CONT.)

Mfg. Part No.	Sensing Diameter	Sensing Range	Connection Type	Output Type	Stock No.	Price Each 1-9
E2E-X1R5Y1	M8	1.5 mm	Prewired	NO	07H1889	85.87
E2E-X2Y1USN	M12	2 mm	Prewired	NO	38B088	116.46
E2EX5Y1US	M18	5 mm	Prewired	NO	66J6574	91.59
E2E-X10Y1-US	M30	10 mm	Prewired	NO	10R5214	97.32
AC- 2 WIRE SCP						
E2E-X5Y1-53-US	M18	5 mm	Prewired	SCR-NO	52F4310	150.78
E2E-X10Y1-53-US	M30	10 mm	Prewired	SCR-NO	52F4311	105.79
AC- CONNECTOR VERSION						
E2EX2Y1M1	M12	2 mm	M12 MICRO	NO	66J6525	121.13
E2EX5Y1M1	M18	5 mm	M12 MICRO	NO	27K4533	128.90
E2E-X10Y1-M1	M30	10 mm	M12 MICRO	NO	10R5213	100.76
DC- 2 WIRE						
E2E-X2D1-N	M8	2 mm	Prewired	NO	09J1469	74.42
E2E-X3D1-N	M12	3 mm	Prewired	NO	09J1476	75.57
E2E-X7D1-N	M18	7 mm	Prewired	NO	09J1483	73.04
E2E-X10D1-N	M30	10 mm	Prewired	NO	18M7318	111.81
DC- CONNECTOR VERSION						
E2E-X2D1-M1G	M8	2 mm	M12 MICRO	NO	09J1468	108.71
E2E-X3D1M1G	M12	3 mm	M12 MICRO	NO	27C1520	88.07
E2E-X7D1-M1G	M18	7 mm	M12 MICRO	NO	09J1482	90.55
E2E-X10D1-M1G	M30	10 mm	M12 MICRO	NO	83H5116	119.56
DC- 3 WIRE						
E2EX1R5E1	M8	1.5 mm	Prewired	NPN-NO	52F4299	105.48
E2E-X1R5F1	M8	1.5 mm	Prewired	PNP-NO	83C8553	67.67
E2E-X2E1	M12	2 mm	Prewired	NPN-NO	52F4302	72.13
E2E-X2F1	M12	2 mm	Prewired	PNP-NO	52F4301	72.13
E2E-X5E1	M18	5 mm	Prewired	NPN-NO	52F4304	74.42
E2E-X5F1	M18	5 mm	Prewired	PNP-NO	52F4303	74.42
E2E-X10E1	M30	10 mm	Prewired	NPN-NO	09J1459	107.15
E2E-X10F1	M30	10 mm	Prewired	PNP-NO	09J1461	107.15
CONNECTOR VERSION						
E2E-X1R5E1-M1	M8	1.5 mm	M12 MICRO	NPN-NO	09J1458	81.87
E2E-X1R5F1-M1	M8	1.5 mm	M12 MICRO	PNP-NO	90B2813	102.50
E2E-X2E1-M1	M12	2 mm	M12 MICRO	NPN-NO	09J1470	102.50
E2E-X2F1-M1	M12	2 mm	M12 MICRO	PNP-NO	09J1471	102.50
E2E-X5E1-M1	M18	5 mm	M12 MICRO	NPN-NO	09J1478	84.35
E2E-X5F1-M1	M18	5 mm	M12 MICRO	PNP-NO	09J1479	84.35
E2E-X10E1-M1	M30	10 mm	M12 MICRO	NPN-NO	09J1460	89.30
E2E-X10F1-M1	M30	10 mm	M12 MICRO	PNP-NO	27M2359	111.81
MINIATURE DC- 3 WIRE						
E2E-CR8C1	4mm	0.8mm	Prewired	NPN-NO	92F629	101.41
E2E-CR8B1	4mm	0.8mm	Prewired	PNP-NO	88K1920	101.41
E2E-X1C1	M5	1 mm	Prewired	NPN-NO	52F9256	98.47
E2E-X1B1	M5	1 mm	Prewired	PNP-NO	93K7546	98.47
E2E-C1C1	5.4 mm	1 mm	Prewired	NPN-NO	38B024	101.41
E2E-C1B1	5.4 mm	1 mm	Prewired	PNP-NO	38B023	137.55

(3534)

PLASTIC INDUCTIVE DC, CYLINDRICAL PROXIMITY SENSORS

OMRON INDUSTRIAL AUTOMATION

Just Added

RoHS Compliant Available

E2F series detects metal objects and offer excellent resistance to chemical and water washdown environments. Shielded for mounting near metal. Features operation indicators and is prewired with 6.5′ of cable and 2 mounting nuts. Meets NEMA enclosure types 1, 3, 4, 6, 12, 13, IEC IP68 classification. UL recognized, CSA certified, CE compliant.

2-WIRE AC SENSORS

Input voltage: 20-264VAC, switch up to 100mA; except circuit protected type with **53-US suffix**, which is 90-140VAC, 300mA. CSA certified (**53-US** version only).

Mfg. Part No.	Sensing Diameter	Sensing Range	Connector Type	Output Type	Stock No.	Price Each 1-14
E2F-X1R5Y1	M8	1.5 mm	Prewired	NO	52F4293	89.54
E2F-X2Y1	M12	2 mm	Prewired	NO	52F4292	89.54
E2F-X5Y1-53-US	M18	5 mm	Prewired	NO	27M2366	104.11
E2F-X10Y1-53-US	M30	10 mm	Prewired	NO	52F4291	93.64
E2F-X5Y1US	M18	5 mm	Prewired	NO	38B195	91.87
E2F-X10YI-US	M30	10 mm	Prewired	NO	10R5221	99.30
3-WIRE DC SENSORS						
Input voltage: 10-30VDC, switch up to 200mA.						
E2F-X1R5E1	M8	1.5 mm	Prewired	NPN-NO	27M2363	78.03
E2F-X1R5F1	M8	1.5 mm	Prewired	PNP-NO	38B192	153.60
E2F-X2E1	M12	2 mm	Prewired	NPN-NO	52F4295	72.04

➤ CONTINUED ➤

SENSORS – PROXIMITY

PLASTIC INDUCTIVE DC, CYLINDRICAL PROXIMITY SENSORS (CONT.)

3-WIRE DC SENSORS

Mfg. Part No.	Sensing Diameter	Sensing Range	Connector Type	Output Type	Stock No.	Price Each 1-14
● E2F-X2F1	M12	2 mm	Prewired	PNP-NO	38B193	124.83
● E2F-X5E1	M18	5 mm	Prewired	NPN-NO	52F4296	73.26
● E2F-X5F1	M18	5 mm	Prewired	PNP-NO	38B194	122.23
● E2F-X10E1	M30	10 mm	Prewired	NPN-NO	27M2365	86.71
E2F-X10F1	M30	10 mm	Prewired	PNP-NO	10R5220	86.71

(51879)

EXTENDED RANGE INDUCTIVE PROXIMITY SENSOR

RoHS Compliant Available

OMRON INDUSTRIAL AUTOMATION

E2EM Series DC 2-wire and 3-wire models provide greater sensing distance and design flexibility. Prewired 2m (6.56') cable. Voltage supply: 12 to 24VDC. 100mA output. Enclosure rating IP67. 2-wire models have no polarity, eliminating reverse wiring. Models below are normally open; PNP models also available; *go online or call.* CE compliant.

2-WIRE MODELS

Mfg. Part No.	Size	Description	Sensing Distance	Stock No.	Price Each
● E2EM-X4X1 2M	M12	Shielded	4mm (0.16″)	19C7892	119.68
● E2EM-X8X1 2M	M18	Shielded	8mm (0.31″)	19C7895	122.83
● E2EM-X15X1 2M	M30	Shielded	15mm (0.59″)	19C7885	129.14
● E2EM-X16MX1 2M	M18	Unshielded	16mm (0.63″)	19C7886	138.57
● E2EM-X30MX1 2M	M30	Unshielded	30mm (1.18″)	19C7889	177.95

SHIELDED 3-WIRE MODELS

Mfg. Part No.	Size	Output Configuration	Sensing Distance	Stock No.	Price Each
● E2EM-X2C1 2M	M8	NPN	2mm (0.08″)	27M2361	114.97
● E2EM-X2B1 2M	M8	PNP	2mm (0.08″)	19C7887	114.97
● E2EM-X4C1 2M	M12	NPN	4mm (0.16″)	19C7891	114.97
● E2EM-X4B1 2M	M12	PNP	4mm (0.16″)	19C7890	114.97
● E2EM-X8C1 2M	M18	NPN	8mm (0.31″)	19C7894	118.11
● E2EM-X8B1 2M	M18	PNP	8mm (0.31″)	19C7893	118.11
● E2EM-X15C1 2M	M30	NPN	15mm (0.59″)	19C7884	124.42

SHIELDED DC 3-WIRE/CONNECTOR MODELS

E2EM-X8B1-M1	M18	PNP	8mm (0.31″)	86H2782	166.59

(60570)

EXTENDED RANGE DC 3-WIRE PROXIMITY SENSORS

Just Added

RoHS Compliant Available

OMRON INDUSTRIAL AUTOMATION

E2A DC 3-wire proximity sensors provide a sensing distance approximately 1.5 to 2 times longer than standard proximity sensors. Choice of prewired cable or M12 connector. Voltage supply: 12 to 24VDC. Normally open NPN output.

SENSORS WITH M12 CONNECTOR

Mfg. Part No.	Size	Sensing Distance (mm)	Overall Length (mm)	Stock No.	Price Each 1-4	Price Each 5-14
● E2AS08KS02M1C1	M8	2	43	41M3223	91.07	86.61
● E2AM08LS02M1C1	M8	2	65	41M3218	87.57	83.29
● E2AM12KS04M1C1	M12	4	48	66J5986	91.07	86.61
E2AM12LS04M1B1	M12	4	70	66J5995	91.07	86.61
● E2AM12LS04M1C1	M12	4	70	66J5997	91.07	86.61
E2AM12LN08M1B1	M12	8	70	66J5992	91.07	86.61
● E2AM18KS08M1C1	M18	8	53	41M3219	97.47	92.70
● E2AM18LS08M1C1	M18	8	75	41M3220	97.47	92.70
● E2AM30KS15M1C1	M30	15	58	41M3221	108.66	103.34
● E2AS08LS02M1C1	M8	2	65	41M3224	91.07	86.61

SENSOR WITH M8 3-PIN CONNECTOR

● E2AS08KS02M5C1	M8	2	39	66J6053	91.07	86.61

PRE-WIRE SENSORS

E2A-S08KS02-WP-B1-2M	M8	2	40	10R5211	64.80	61.63
E2A-S08KS02-WP-C1-2M	M8	2	40	10R5212	64.80	61.63
E2A-M12KS04-WP-B1-2M	M12	4	50	10R5205	64.80	61.63
E2A-M12KS04-WP-C1-2M	M12	4	50	10R5206	64.80	61.63
E2A-M18KS08-WP-B1-2M	M18	8	59	10R5207	69.51	66.11
E2A-M18KS08-WP-C1-2M	M18	8	59	10R5208	69.51	66.11
E2A-M30KS15-WP-B1-2M	M30	15	64	10R5209	74.21	70.59
E2A-M30KS15-WP-C1-2M	M30	15	64	10R5210	74.21	70.59

(88425)

TL-W SUBMINIATURE, FLAT-PACK PROXIMITY SENSORS

OMRON INDUSTRIAL AUTOMATION

RoHS Compliant Available

Fit tight spaces as small as 0.39″ x 1.06″ (10mm x 27mm). Watertight construction conforms to IEC enclosure type IP67classification. Ideal for conveyor mounting. Mount directly onto metal base or rail. Rugged, low-profile plastic housing. Prewired with 2m (6.56') cable length. Mounting bracket included. Inductive, 3-wire DC, 10-30VDC supply, 100mA switching, unshielded. PNP output models also available; *go online or call.* UL registered, CSA certified, CE compliant.

Mfg. Part No.	Sensing Range	Output	Stock No.	Price Each 1-9
● TL-W1R5MB1	0.06″ (1.5mm)	PNP	50B6350	65.28
● TL-W1R5MC1	0.06″ (1.5mm)	NPN	88K2005	65.28
● TL-W3MB1	0.12″ (3mm)	PNP	38B1181	69.25
● TL-W3MC1	0.12″ (3mm)	NPN	52F4280	69.25
● TL-W5MB1	0.19″ (5mm)	PNP	27M2897	59.19
● TL-W5MC1	0.19″ (5mm)	NPN	27M2898	59.19

(51877)

E2K-F FLAT-PACK CAPACITIVE PROXIMITY SENSORS

RoHS Compliant Available

OMRON INDUSTRIAL AUTOMATION

- Flat-pack, thin rectangular plastic DC sensor fits space-confined installations
- Non-contact detection of metallic and non-metallic targets including water, oil, glass, plastic and wood
- Detect level inside non-metallic containers
- 10mm (0.39″) plastic body is ideal for conveyor wall mounting
- Unshielded sensor has LED indicator and fixed sensitivity for simple installation

Built-in DC amplifier provides NPN switching of loads up to 100mA. Supply voltage: 10-30VDC. Prewired with 2m 3-conductor cable. Enclosure ratings include IEC IP66, NEMA 1, 4, 12 and 13.

Mfg. Part No.	Sensing Range (mm)	Output Type	Stock No.	Price Each 1-4
● E2K-F10MC1	10	NPN, NO	27M2369	118.00
● E2K-F10MC2	10	NPN, NC	38B202	118.00

(90316)

CAPACITIVE PROXIMITY SENSORS

Just Added

RoHS Compliant Available

OMRON INDUSTRIAL AUTOMATION

E2K-X standard and **E2K-C series** adjustable range capacitive proximity sensors detect metallic and non-metallic objects such as glass, wood, paper, water, oil, and plastic. Switching up to 200mA. Both versions are unshielded, feature operation indicators, come pre-wired with 6.5′ of cable, and operate in temperatures from -13°F to +158°F. **E2K-C series** adjustable versions have plastic body construction, are 3.23″ (82) long, and include mounting brackets. **E2K-X series** standard versions have threaded plastic body construction and are 3.15″ (80) long with mounting nuts. Diameters are listed in description column. All sensors are CSA certified. **E2K-C series** are UL listed. **E2K-X series** are UL recognized. All meet IEC enclosure IP66 classification and NEMA enclosure types 1, 4, 12, and 13.

ADJUSTABLE RANGE VERSIONS

Mfg. Part No.	Sensing Range	Supply Voltage	Output	Dia. (mm)	Stock No.	Price Each 1-4
● E2K-C25ME1	3-25 mm	10-40VDC	NPN (NO)	34	52F4322	149.81
● E2K-C25ME2	3-25 mm	10-40VDC	NPN (NC)	34	52F4323	149.81
E2K-C25MF2	3-25 mm	10-40VDC	NPN (NC)	34	38B200	203.20
● E3A2-R3M4T	3-25 mm	10-40VDC	PNP (NO)	34	27M2376	294.13
● E2K-C25MY1	3-25 mm	90-250VAC	SCR (NO)	34	52F4320	193.42
● E2K-C25MY2	3-25 mm	90-250VAC	SCR (NO)	34	27M2368	149.81

STANDARD VERSIONS

● E2K-X4ME1	4 mm	10-30VDC	NPN (NO)	M12	41M3226	120.08
● E2K-X4ME2	4 mm	10-30VDC	NPN (NC)	M12	52F4329	120.08
● E2K-X4MF1	4 mm	10-30VDC	PNP (NO)	M12	38B205	130.08
● E2K-X4MY1	4 mm	90-250VAC	SCR (NO)	M12	27M2373	156.94
● E2K-X8MF1	8 mm	10-30VDC	PNP (NO)	M18	38B207	155.19
● E2K-X8ME1	8 mm	10-30VDC	PNP (NO)	M18	52F4330	123.96

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CAPACITIVE PROXIMITY SENSORS (CONT.)

STANDARD VERSIONS

Mfg. Part No.	Sensing Range	Supply Voltage	Output	Dia. (mm)	Stock No.	Price Each 1-4
E2K-X8MY1	8 mm	90-250VAC	NPN (NO)	M18	38B208	196.72
● E2K-X15MY1	15 mm	90-250VAC	SCR (NO)	M30	27M2371	156.94
● E2K-X15MY2	15 mm	90-250VAC	SCR (NO)	M30	27M2372	156.94
● E2K-X15ME1	15 mm	10-30VDC	NPN (NO)	M30	27M2370	121.27
E2K-X15MF1	15 mm	10-30VDC	NPN (NO)	M30	38B204	164.48

(3533)

ALL METAL DETECTING PROXIMITY SENSORS

OMRON INDUSTRIAL AUTOMATION

E2EV series detect both ferrous and non-ferrous metals at the same distance. Ideal for applications with work pieces of different metals. Metal body cylindrical sensor features short circuit and reverse polarity protection and operation indicators. 10-30VDC input voltage, switches 100mA. Rated NEMA 1, 3, 4, 6, 12, 13, and IP67. Pre-wired with 6.5′ of cable. Includes two mounting nuts. All are 2.36″ (60) long. NO = normally open; NC = normally closed.

Mfg. Part No.	Description	Diameter (mm)	Sensing Range	Stock No.	Price Each
E2EV-X5C1	NPN, NO	18	0.20″ (5mm)	52F4314	167.76
E2EV-X5C2	NPN, NC	18	0.20″ (5mm)	52F4315	176.14
E2EV-X10C2	NPN, NC	30	0.39″ (10mm)	52F4317	172.09

(3537)

LIMIT SWITCH STYLE PROXIMITY SENSORS

CE

OMRON INDUSTRIAL AUTOMATION

E2Q2 series offers flexibility with a sensing face that easily changes to any of 5 positions. Installation uses same mounting dimensions as a standard limit switch. Conduit opening: ½-NPT. **E2QWN series** are weld field and noise immune, 9-way configurable with 3-pin micro-connector. Both are shielded except 30mm sensing distance versions. Rugged plastic body and stainless steel screws. Enclosure rating IP67. NO=normally open; NC=normally closed. CE compliant.

Mfg. Part No.	Output Type	Sensing Distance	Supply	Stock No.	Price Each 1-4
E2Q2-N15Y4-51*	SCR (NO or NC)	0.59″ (15mm)	20-250VAC	19C7898	221.38
E2Q2N15Y4-U	SCR (NO or NC)	0.59″ (15mm)	20-250VDC	98B7939	216.71
E2Q2-N30MF3-U	PNP (NO + NC)	1.18″ (30mm)	10-60VDC	19C7902	195.48
WELD FIELD IMMUNE SENSORS					
E2QWN15T1M4	AC/DC 2-wire, NO	0.59″ (15mm)	20-150VAC/VDC	27K4552	322.72
E2QWN25T1M4	AC/DC 2-wire, NO	0.98″ (25mm)	20-150VAC/VDC	27K4554	333.86
E2QWN35MT1M4	AC/DC 2-wire, NO	1.38″ (35mm)	20-150VAC/VDC	27K4556	344.97

*Weld field immune.
(60470)

PILE DRIVER™ INDUCTIVE PROXIMITY SENSORS FOR HARSH ENVIRONMENTS

FM

PEPPERL+FUCHS SENSING YOUR NEEDS

CE

PILE DRIVER

- One piece stainless steel housing
- Last 20x longer than traditional proximity sensors
- Power + output LED indicators
- Ferrous-only setting
- Operating temperature: -14°F to 158°F
- **Extended range models now available**

Additional output and termination styles available; *go online or call Newark.*

2 WIRE DC OUTPUT TYPES - SUPPLY VOLTAGE 6 - 60VDC

Mfg. Part No.	Face Dia. (mm)	Sensing Range (mm)	Load Current (mA)	Termi-nation	Stock No.	Price Each 1-4
NMB 2-12GM75-Z0-FE-V1	12	2	100	Micro DC Connector	24C3914	113.90
NMB 5-18GM65-Z0-FE-V1	18	5	100	Micro DC Connector	24C3930	121.96
NMB 8-30GM65-Z0-FE-V1	30	8	100	Micro DC Connector	24C3952	132.31

➤ CONTINUED ➤

PILE DRIVER™ INDUCTIVE PROXIMITY SENSORS FOR HARSH ENVIRONMENTS (CONT.)

3 WIRE NPN & PNP DC OUTPUT TYPES - SUPPLY VOLTAGE: 10-30VDC

Mfg. Part No.	Face Dia. (mm)	Sensing Range (mm)	Load Current (mA)	Termi-nation	Stock No.	Price Each 1-4
NMB1.5-8GM50-E0-FE-V3	8	1.5	100	Pico DC Connector	30M8893	119.66
NMB 1.5-8GM50-E2-FE-V3	8	1.5	100	Pico DC Connector	08J9517	119.66
NMB1.5-8GM50-E0-FE-V1	8	1.5	100	Micro DC Connector	30M8892	119.66
NMB 1.5-8GM50-E2-FE-V1	8	1.5	100	Micro DC Connector	83H8356	119.66
NMB1.5-8GM35-E0-FE-150MM-V1	8	1.5	100	Micro DC Connector	30M8890	126.56
NMB1.5-8GM35-E2-FE-150MM-V1	8	1.5	100	Micro DC Connector	30M8891	126.56
NMB 1.5-8GM65-E2-FE-V1	8	1.5	100	Micro DC Connector	03H5624	119.66
NMB2-12GM65-E0-FE-V1	12	2	200	Micro DC Connector	70K3911	94.35
NMB2-12GM65-E2-FE-V1	12	2	200	Micro DC Connector	70K3914	94.35
NMB2-12GM65-E2-C-FE-V1	12	2	200	Micro DC Connector	70K3913	123.11
NMB5-12GM65-E0-V1	12	5	200	Micro DC Connector	08N1565	111.60
NMB5-12GM65-E2-V1	12	5	200	Micro DC Connector	08N1566	111.60
NMB5-12GM55-E2	12	5	200	2 m Cable	08N1564	111.60
NMB 5-18GM55-E2-FE	18	5	100	2-Meter Cable	24C3923	105.85
NMB5-18GM65-E0-FE-V1	18	5	200	Micro DC Connector	30M8894	105.85
NMB 5-18GM65-E2-FE-V1	18	5	200	Micro DC Connector	24C3928	105.85
NMB5-18GM65-E2-C-FE-V1	18	5	200	Micro DC Connector	97C8471	143.91
NMB10-18GM65-E0-V1	18	10	200	Micro DC Connector	08N1559	123.11
NMB10-18GM65-E2-V1	18	10	200	Micro DC Connector	08N1560	123.11
NMB10-18GM55-E2	18	10	200	2 m Cable	08N1558	123.11
NMB8-30GM65-E0-FE-V1	30	8	200	Micro DC Connector	30M8895	117.36
NMB 8-30GM65-E2-FE-V1	30	8	200	Micro DC Connector	24C3950	117.36
NMB8-30GM65-E2-C-FE-V1	30	8	200	Micro DC Connector	97C8472	156.21
NMB15-30GM65-E0-V1	30	15	200	Micro DC Connector	08N1562	134.61
NMB15-30GM65-E2-V1	30	15	200	Micro DC Connector	08N1563	134.61
NMB15-30GM55-E2	30	15	200	2 m Cable	08N1561	134.61

2 WIRE AC/DC OUTPUT TYPE - SUPPLY VOLTAGE: 20-250VAC / 20-300VDC

NMB2-12GM85-US-FE-V12	12	2	8-200	Dual Key Micro AC Connector	72C5734	172.58
NMB 5-18GM85-US-FE-V12	18	5	8-300	Dual Key Micro AC Connector	24C3940	178.33
NMB 8-30GM85-US-FE-V12	30	8	8-300	Dual Key Micro AC Connector	24C3962	184.08
NMB8-30GM85US-FE-V93	30	8	8-200	Mini AC/DC Connector	01J0162	184.08

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Huge Expanded Selection of Semiconductors

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

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SENSORS – PROXIMITY

CYLINDRICAL INDUCTIVE PROXIMITY SENSORS

Just Added

PEPPERL+FUCHS SENSING YOUR NEEDS

- Single LED output status indicator
- Sealing to IP67
- Operating temperature: -14°F to +158°F
- Shielded (embeddable)
- 3-wire PNP output, suffix: -E2
- 3-wire NPN output, suffix: -E0

2 WIRE DC OUTPUT TYPE - SUPPLY VOLTAGE: 5-60 VDC

Mfg. Part No.	Face Dia. (mm)	Range (mm)	Load Current (mA)	Termi-nation	Stock No.	Price Each 1-4
NBB 2-12GM40-Z0	12	2	2-100	PVC Cable	22C9477	69.60
NBB 2-12GM40-Z0-V1	12	2	2-100	Micro DC Connector	24C2530	69.60
NBB5-18GM40-Z0	18	5	2-100	PVC Cable	97C8466	75.40
NBB5-18GM40-Z0-V1	18	5	2-100	Micro DC Connector	97C8467	75.40
NBB10-30GM40-Z0	30	10	2-100	PVC Cable	97C8462	90.48
3 WIRE DC NPN AND PNP OUTPUT TYPES - SUPPLY VOLTAGE: 10-30VDC						
NBB 2-8GM50-E0	8	2	100	PVC Cable	24C2557	81.20
NBB 2-8GM50-E2	8	2	100	PVC Cable	24C2558	81.20
NBB 2-8GM40-E0-V1	8	2	100	Micro DC Connector	24C2555	81.20
NBB 2-8GM40-E2-V1	8	2	100	Micro DC Connector	24C2556	81.20
NBN 2-8GM50-E0	8	2	2-100	PVC Cable	24C2677	91.91
NBN 2-8GM50-E2	8	2	2-100	PVC Cable	24C2680	81.20
NBN 3-8GM50-E0	8	3	2-100	PVC Cable	24C2697	81.20
NBB2-12GM50-E0	12	2	200	PVC Cable	23C1491	69.60
NBB 2-12GM50-E2-V1	12	2	100	Micro DC Connector	24C2539	69.60
NBB 4-12GM50-E0	12	4	200	PVC Cable	24C2565	83.52
NBB 4-12GM50-E0-V1	12	4	200	Micro DC Connector	24C2566	83.52
NBB4-12GM50-E2-V1 ***G***D	12	4	200	Micro DC Connector	71J6364	68.44
NBB 4-12GM50-E2	12	4	200	PVC Cable	24C2567	83.52
NBB5-18GM50-E0	18	5	200	PVC Cable	23C1506	75.40
NBB5-18GM50-E2	18	5	100	PVC Cable	23C1512	75.40
NBB 5-18GM50-E0-V1	18	5	200	Micro DC Connector	24C2584	75.40
NBB 5-18GM50-E2-V1	18	5	100	Micro DC Connector	24C2591	75.40
NBB 8-18GM50-E0	18	8	200	PVC Cable	24C2622	89.32
NBB 8-18GM50-E0-V1	18	8	200	Micro DC Connector	24C2623	89.32
NBB8-18GM50-E2-V1 ***G***D	18	8	200	Micro DC Connector	71J6384	80.04
NBB 8-18GM50-E2	18	8	200	PVC Cable	24C2625	89.32
NBB10-30GM50-E0	30	10	200	PVC Cable	24C2636	90.48
NBB10-30GM50-E0-V1	30	10	200	Micro DC Connector	24C2638	90.48
NBB10-30GM50-E2	30	10	100	PVC Cable	24C2640	90.48
NBB10-30GM50-E2-V1	30	10	200	Micro DC Connector	24C2643	90.48
NBB15-30GM50-E0	30	15	200	PVC Cable	33C9706	103.24
NBB15-30GM50-E2	30	15	200	PVC Cable	03H5344	103.24
NBB15-30GM50-E0-V1	30	15	200	Micro DC Connector	33C9707	103.24
2 WIRE AC OUTPUT TYPE - SUPPLY VOLTAGE: 20-250 VAC						
NBB2-12GM60-WS	12	2	5-200	PVC Cable	23C1517	110.20
NBB 2-12GM60-WS-V12	12	2	5-200	Dual Key Micro AC Connector	24C2549	110.20
NBB5-18GM60-WS	18	5	5-200	PVC Connector	23C1553	127.60
NBB10-30GM50-WS	30	25	5-200	PVC Cable	20K1862	148.48
NBB10-30GM50-WS-V93	30	10	5-200	Mini AC Connector	20K1864	148.48
NBB10-30GM50-WS-V12	30	10	5-200	Dual Key Micro AC Connector	20K1863	148.48
NBB5-18GM60-WS-V12 NINIT	18	5	5-200	Dual Key Micro AC Connector	71J6377	107.88

(69211)

LIMIT SWITCH STYLE INDUCTIVE SENSORS

PEPPERL+FUCHS SENSING YOUR NEEDS

- 5 position head style for easy mounting
- ½″ NPT opening, screw terminal termination
- Typical operating temperature: -14°F to 158°F
- Dual LED status indicators for power and output
- IP67/68 sealing

Replace mechanical limit switches with solid-state sensing and switching.

4 WIRE DC PNP CUBE STYLE N.O. AND N.C. OUTPUT - SUPPLY VOLTAGE: 10-30 VDC

Mfg. Part No.	Sensing Face Size (mm)	Sensing Range (mm)	Load Current (mA)	Stock No.	Price Each 1-4
NBB20-L2M-A2-V1*	40 x 40	20	200	12J5032	121.55
NBN40-L2M-A2-V1	40 x 40	40	200	71J6440	121.55
3 WIRE DC PNP CUBE STYLE N.O. OUTPUT - SUPPLY VOLTAGE 10-30VDC					
NBB20-L2M-E2-V1	40 x 40	20	200	41J2736	115.48
NBN40-L2M-E2-V1	40 x 40	40	200	71J6442	115.48
3 WIRE DC PNP FULL SIZE LIMIT SWITCH N.O. OUTPUT - SUPPLY VOLTAGE: 10-30VDC					
NJ20+U4+E2*	40 x 40	20	200	24C3637	158.02
NJ30+U4+E2	40 x 40	30	200	24C3710	164.10
NJ40+U4+E2	55 x 55	40	200	24C3773	176.25
2 WIRE AC FULL SIZE LIMIT SWITCH N.O. OR N.C. OUTPUT - SUPPLY VOLTAGE 20-250VAC					
NJ15+U4+W*	40 x 40	15	8-500	24C3549	206.64
NJ40+U4+W	55 x 55	40	8-500	24C3782	255.26
2 WIRE AC/DC CUBE STYLE N.O. OUTPUT - SUPPLY VOLTAGE 20-250VAC/VDC					
NBB20-L3M-US-V93*	40 x 40	40	300	29M5239	170.17
2 WIRE AC/DC FULL SIZE LIMIT SWITCH N.O. OR N.C. OUTPUT - SUPPLY VOLTAGE 20-250VAC					
NCB15+U4+U*	40 x 40	15	8-500	24C2845	218.79
NCN40+U4+U	55 x 55	40	8-500	24C2959	261.34
4 WIRE DC FULL SIZE LIMIT SWITCH PNP N.O. OR N.C. OUTPUT - SUPPLY VOLTAGE 10-60VDC					
NJ15+U4+A2*	40 x 40	15	200	24C3519	170.17

*Shielded
(69228)

CAPACITIVE PROXIMITY SENSORS

RoHS Compliant Available

PEPPERL+FUCHS SENSING YOUR NEEDS

3-Wire DC

2-Wire AC

- Reliable detection of liquid, powdered or granular media
- Rated operating temperature: -14°F to +158°F
- 2-Meter Cable, 3-Conductor Electrical Connection
- Adjustable sensitivity

3-WIRE DC OUTPUT TYPES — NORMALLY OPEN PNP VERSIONS

Mfg. Part No.	Sensing Face Diameter	Sensing Range	Load Current (mA)	Supply Voltage (VDC)	Stock No.	Price Each 1-4
CJ 4-12GM-E2	12mm	4mm	200	10-35	03H4168	264.72
CJ 8-18GM-E2	18mm	8mm	300	10-30	34C2330	264.72
CJ10-30GM-E2	30mm	10mm	200	10-60	73C2972	223.54
● CJ10-30GM-E2-V1	30mm	20mm	200	10-60	03H4186	223.54

2-WIRE AC OUTPUT TYPES — SUPPLY VOLTAGE 20-250VAC/45-60HZ

Mfg. Part No.	Sensing Face Diameter	Sensing Range	Load Current (mA)	Housing	Stock No.	Price Each 1-4
● CJ10-30GK-WS	30mm	10mm	200	Plastic	27C9511	164.71
CJ10-30GM-WS	30mm	10mm	200	Nickel-Plated Brass	25C4030	252.95

(73252)

UPROX+ INDUCTIVE PROXIMITY SENSORS

TURCK works. Industrial Automation

BI4U

NI30U

Features:
- Replaces conventional wound coil system used in previous generation of sensors
- Sensing distances up to 250% higher than conventional ferrite core
- 4-pin M12 Eurofast Q.D. termination
- Short-circuit and overload protection incorporated
- Reverse polarity and wire-break protection
- LEDs indicate: Output energized and short circuit warning

Specifications:
- Environmental rating: NEMA 1, 3, 4, 4x, 6, 13; IP68
- Operating temperature: -13°F to 167°F ("WD style" 32°F to 185°F)
- Continuous load current: 200mA
- Voltage drop: 1.8VDC at 200mA
- Input voltage: 10-30VDC
- Normally open output
- Threaded barrel style

EMBEDDABLE

Mfg. Part No.	Sensing Distance (mm)	Sensing Face Dia. (mm)	Output Type	Housing Material	Stock No.	Price Each 1-9
BI4U-EM12-AN6X-H1141	4	12	NPN	Stainless Steel	41M2084	84.63
BI4U-EM12-AP6X-H1141	4	12	PNP	Stainless Steel	41M2085	84.63
BI4U-EM12WD-AN6X-H1141*	4	12	NPN	Stainless Steel	41M2086	110.67
BI4U-EM12WD-AP6X-H1141*	4	12	PNP	Stainless Steel	41M2087	110.67
BI4U-M12-AN6X-H1141	4	12	NPN	Chrome Plated Brass	41M2091	82.46
BI4U-M12-AP6X-H1141	4	12	PNP	Chrome Plated Brass	41M2092	82.46
BI4U-MT12-AN6X-H1141	4	12	NPN	Teflon Coated	41M2088	96.57
BI4U-MT12-AP6X-H1141	4	12	PNP	Teflon Coated	41M2089	96.57
BI4U-MT12E-AP6X2-H1141	4	12	PNP	Teflon Coated	41M2090	96.57
BI8U-EM18-AN6X-H1141	8	18	NPN	Stainless Steel	41M2132	98.74
BI8U-EM18-AP6X-H1141	8	18	PNP	Stainless Steel	41M2133	98.74
BI8U-EM18WD-AN6X-H1141*	8	18	NPN	Stainless Steel	41M2134	125.21
BI8U-EM18WD-AP6X-H1141*	8	18	PNP	Stainless Steel	41M2135	125.21
BI8U-M18-AN6X-H1141	8	18	NPN	Chrome Plated Brass	41M2138	96.57
BI8U-M18-AP6X-H1141	8	18	PNP	Chrome Plated Brass	41M2139	96.57
BI8U-MT18-AN6X-H1141	8	18	NPN	Teflon Coated	41M2136	109.59
BI8U-MT18-AP6X-H1141	8	18	PNP	Teflon Coated	41M2137	109.59
BI15U-EM30-AN6X-H1141	15	30	NPN	Stainless Steel	41M2178	98.74
BI15U-EM30-AP6X-H1141	15	30	PNP	Stainless Steel	41M2179	98.74
BI15U-EM30WD-AN6X-H1141*	15	30	NPN	Stainless Steel	41M2180	125.21
BI15U-EM30WD-AP6X-H1141*	15	30	PNP	Stainless Steel	41M2181	129.01
BI15U-M30-AN6X-H1141	15	30	NPN	Chrome Plated Brass	41M2185	96.57
BI15U-M30-AP6X-H1141	15	30	PNP	Chrome Plated Brass	41M2186	96.57
BI15U-MT30-AN6X-H1141	15	30	NPN	Teflon Coated	41M2182	109.59
BI15U-MT30-AP6X2-H1141	15	30	PNP	Teflon Coated	41M2184	109.59
BI15U-MT30-AP6X-H1141	15	30	PNP	Teflon Coated	41M2183	109.59
NONEMBEDDABLE						
NI10U-EM12-AN6X-H1141	10	12	NPN	Stainless Steel	41M3663	84.63
NI10U-EM12-AP6X-H1141	10	12	PNP	Stainless Steel	41M3664	84.63
NI10U-EM12WD-AN6X-H1141*	10	12	NPN	Stainless Steel	41M3665	110.67
NI10U-EM12WD-AP6X-H1141*	10	12	PNP	Stainless Steel	41M3666	110.67
NI10U-M12-AN6X-H1141	10	12	NPN	Chrome Plated Brass	41M3670	82.46
NI10U-M12-AP6X-H1141	10	12	PNP	Chrome Plated Brass	41M3671	82.46
NI10U-MT12-AN6X-H1141	10	12	NPN	Teflon Coated	41M3667	96.57
NI10U-MT12-AP6X-H1141	10	12	PNP	Teflon Coated	41M3668	96.57
NI10U-MT12E-AP6X2-H1141	10	12	PNP	Teflon Coated	41M3669	98.74
NI15U-EM18-AN6X-H1141	15	18	NPN	Stainless Steel	41M3702	98.74
NI15U-EM18-AP6X-H1141	15	18	PNP	Stainless Steel	41M3703	98.74
NI15U-EM18WD-AN6X-H1141*	15	18	NPN	Stainless Steel	41M3704	125.21
NI15U-EM18WD-AP6X-H1141*	15	18	PNP	Stainless Steel	41M3705	125.21
NI15U-M18-AN6X-H1141	15	18	NPN	Chrome Plated Brass	41M3708	96.57
NI15U-M18-AP6X-H1141	15	18	PNP	Chrome Plated Brass	41M3709	96.57
NI15U-MT18-AN6X-H1141	15	18	NPN	Teflon Coated	41M3706	109.59
NI15U-MT18-AP6X-H1141	15	18	PNP	Teflon Coated	41M3707	109.59
NI30U-EM30-AN6X-H1141	30	30	NPN	Stainless Steel	41M3729	98.74
NI30U-EM30-AP6X-H1141	30	30	PNP	Stainless Steel	41M3730	98.74
NI30U-EM30WD-AN6X-H1141*	30	30	NPN	Stainless Steel	41M3731	125.21
NI30U-EM30WD-AP6X-H1141*	30	30	PNP	Stainless Steel	41M3732	125.21
NI30U-M30-AN6X-H1141	30	30	NPN	Chrome Plated Brass	41M3736	96.57

➤ CONTINUED ➤

UPROX+ INDUCTIVE PROXIMITY SENSORS (CONT.)

NONEMBEDDABLE

Mfg. Part No.	Sensing Distance (mm)	Sensing Face Dia. (mm)	Output Type	Housing Material	Stock No.	Price Each 1-9
NI30U-M30-AP6X-H1141	30	30	PNP	Chrome Plated Brass	41M3737	96.57
NI30U-MT30-AN6X-H1141	30	30	NPN	Teflon Coated	41M3733	109.59
NI30U-MT30-AP6X2-H1141	30	30	PNP	Teflon Coated	41M3735	109.59
NI30U-MT30-AP6X-H1141	30	30	PNP	Teflon Coated	41M3734	109.59

* Washdown - IP67, IP68, IP69K
(91197)

4-30 MM BARREL DC INDUCTIVE PROXIMITY SENSORS 3-WIRE

RoHS Compliant Available

TURCK works. Industrial Automation

EH, EG and G Barrel with Potted-In Cable

M Barrel with Quick Disconnect

G SK Barrel with Terminal Chamber

M Barrel with Potted-In Cable

EG and G Barrel with Quick Disconnect

Features:
- Choice of Barrer with Potted-In Cable, M8 (picofast), M12 (eurofast), Quick-Disconnect or Terminal Chamber
- Short-Circuit and Overload Protected
- Reverse Polarity and Wire Break Protection
- LED Indicator: Output Energized (Additional Power on LED, Terminal Chamber Versions)
- Normally Open Output

Specifications:
- Environmental rating: NEMA 1, 3, 4, 6, 13; IP67
- Operating temperature: -13°F to 158°F
- Voltage Drop: 1.8 VDC at Max. Load Current

Solve space problems with picprox miniature inductive proximity sensors. Perfect for positioning control, small parts placement, robotic grippers, counting, inspecting, and other applications where space is a problem. Self contained DC units switch 100 mA loads with tiny 4 mm, 5 mm, 6.5 mm and 8 mm diameter housings with built-in LEDs.

Mfg. Part No.	Sensing Distance (mm)	Sensing Face Dia. (mm)	Output Type	Max. Load Current (mA)	Termination	Stock No.	Price Each 1-9
BI 1-EH04-AP6X	1	4	PNP	100	2 m Cable	41M2041	130.01
BI 1-EH04-AN6X	1	4	NPN	100	2 m Cable	41M2039	130.01
BI 1-EH04-AP6X-V1331	1	4	PNP	100	3-pin picofast	41M2042	130.01
BI 1-EH04-AN6X-V1331	1	4	NPN	100	3-pin picofast	41M2040	130.01
BI 1-EG05-AP6X	1	5	PNP	100	2 m Cable	41M2037	130.01
BI 1-EG05-AN6X	1	5	NPN	100	2 m Cable	41M2035	130.01
BI 1-EG05-AP6X-V1331	1	5	PNP	100	3-pin picofast	41M2038	130.01
BI 1-EG05-AN6X-V1331	1	5	NPN	100	3-pin picofast	41M2036	130.01
● BI 1.5-EH6.5-AP6X	1.5	6.5	PNP	150	2 m Cable	41M2027	99.93
● BI 1.5-EH6.5-AN6X	1.5	6.5	NPN	150	2 m Cable	41M2025	99.93
● BI 1.5-EH6.5-AP6X-V1131	1.5	6.5	PNP	150	3-pin picofast	41M2028	99.93
● BI 1.5-EH6.5-AN6X-V1131	1.5	6.5	NPN	150	3-pin picofast	41M2026	99.93
NI 3-EH6.5-AP6X	3	6.5	PNP	150	2 m Cable	41M3612	99.93
NI 3-EH6.5-AN6X	3	6.5	NPN	150	2 m Cable	41M3610	99.93
NI 3-EH6.5-AP6X-V1131	3	6.5	PNP	150	3-pin picofast	41M3613	99.93
NI 3-EH6.5-AN6X-V1131	3	6.5	NPN	150	3-pin picofast	41M3611	99.93
● BI 1.5-EH6.5-AP6X	1.5	6.5	PNP	150	2 m Cable	41M2027	99.93
● BI 1.5-EH6.5-AN6X	1.5	6.5	NPN	150	2 m Cable	41M2025	99.93
● BI 1.5-EH6.5-AP6X-V1131	1.5	6.5	PNP	150	3-pin picofast	41M2028	99.93

➤ CONTINUED ➤

SENSORS – PROXIMITY

4-30 MM BARREL DC INDUCTIVE PROXIMITY SENSORS 3-WIRE (CONT.)

Mfg. Part No.	Sensing Distance (mm)	Sensing Face Dia. (mm)	Output Type	Max. Load Current (mA)	Termination	Stock No.	Price Each 1-9
● BI 1.5-EH6.5-AN6X-V1131	1.5	6.5	NPN	150	3-pin picofast	41M2026	99.93
● BI 2-EG08-AP6X	2	8	PNP	150	2 m Cable	99M0979	114.38
● BI 2-EG08-AN6X	2	8	NPN	150	2 m Cable	99M0977	114.38
● BI 2-EG08-AP6X-V1131	2	8	PNP	150	3-pin picofast	64M0775	114.38
● BI 2-EG08-AN6X-V1131	2	8	NPN	150	3-pin picofast	99M0978	114.38
● BI 2-EG08-AP6X-H1341	2	8	PNP	150	4-pin picofast	55M3552	114.38
● BI 2-EG08-AN6X-H1341	2	8	NPN	150	4-pin picofast	64M5010	114.38
● BI 2-G12-AP6X-H1141	2	12	PNP	200	4-pin picofast	55M3351	88.18
● BI2-G12-AN6X-H1141	2	12	NPN	200	4-pin picofast	41M2050	85.60
BI 2-G12SK-AP6X2	2	12	PNP	200	Terminal Chamber	41M2056	105.00
BI 2-G12SK-AN6X2	2	12	NPN	200	Terminal Chamber	41M2055	105.00
● NI 3-EG08-AP6X	3	8	PNP	170	2 m Cable	99M1012	99.93
● NI 3-EG08-AN6X	3	8	NPN	170	2 m Cable	99M1010	99.93
● NI 3-EG08-AP6X-V1131	3	8	PNP	170	3-pin picofast	84M4053	99.93
● NI 3-EG08-AN6X-V1131	3	8	NPN	170	3-pin picofast	76M8829	99.93
● NI 3-EG08-AP6X-H1341	3	8	PNP	170	4-pin eurofast	99M1013	99.93
● NI 3-EG08-AN6X-H1341	3	8	NPN	170	4-pin eurofast	99M1011	99.93
● BI 4-M12-AP6X	4	12	PNP	200	2 m Cable	41M2078	94.44
● BI 4-M12-AN6X	4	12	NPN	200	2 m Cable	41M2076	94.44
● BI4-M12-AP6X-H1141	4	12	PNP	200	4-pin eurofast	41M2079	97.35
● BI4-M12-AN6X-H1141	4	12	NPN	200	4-pin eurofast	41M2077	97.35
NI5-G12-AP6X-H1141	5	12	PNP	200	4-pin eurofast	41M3632	85.60
● NI5-G12-AN6X-H1141	5	12	NPN	200	4-pin eurofast	41M3630	85.60
NI 5-G12SK-AP6X2	5	12	PNP	200	Terminal Chamber	41M3634	105.00
NI 5-G12SK-AN6X2	5	12	NPN	200	Terminal Chamber	41M3633	105.00
● NI 8-M12-AP6X	8	12	PNP	200	2 m Cable	41M3641	94.44
● NI 8-M12-AN6X	8	12	NPN	200	2 m Cable	41M3639	94.44
● NI8-M12-AP6X-H1141	8	12	PNP	200	4-pin eurofast	01N3955	97.35
● NI8-M12-AN6X-H1141	8	12	NPN	200	4-pin eurofast	41M3640	97.35
● BI5-M18-AP6X-H1141	5	18	PNP	200	4-pin eurofast	41M2104	105.32
BI5-M18-AN6X-H1141	5	18	NPN	200	4-pin eurofast	41M2103	102.20
● BI 5-G18SK-AP6X2	5	18	PNP	200	Terminal Chamber	41M2100	123.87
BI 5-G18SK-AN6X2	5	18	NPN	200	Terminal Chamber	41M2099	123.87
● BI 8-M18-AP6X	8	18	PNP	200	2 m Cable	41M2126	114.38
BI 8-M18-AN6X	8	18	NPN	200	2 m Cable	41M2124	114.38
● BI8-M18-AP6X-H1141	8	18	PNP	200	4-pin eurofast	41M2127	114.38
BI8-M18-AN6X-H1141	8	18	NPN	200	4-pin eurofast	41M2125	114.38
● NI10-M18-AP6X-H1141	10	18	PNP	200	4-pin eurofast	41M3662	102.20
NI10-M18-AN6X-H1141	10	18	NPN	200	4-pin eurofast	41M3661	105.32
● NI10-G18SK-AP6X2	10	18	PNP	200	Terminal Chamber	41M3660	123.87
NI10-G18SK-AN6X2	10	18	NPN	200	Terminal Chamber	41M3659	123.87
● NI10-G18-AP6X 50MM	10	18	PNP	200	2m Cable	41M3658	102.20
NI10-G18-AN6X 50MM	10	18	NPN	200	2m Cable	41M3837	102.20
● NI14-M18-AP6X	14	18	PNP	200	2 m Cable	41M3684	111.04
NI14-M18-AN6X	14	18	NPN	200	2 m Cable	41M3682	111.04
● NI14-M18-AP6X-H1141	14	18	PNP	200	4-pin eurofast	41M3685	111.04
NI14-M18-AN6X-H1141	14	18	NPN	200	4-pin eurofast	41M3683	111.04
● BI10-G30-AP6X	10	30	PNP	200	2 m Cable	41M2142	105.32
BI10-G30-AN6X	10	30	NPN	200	2 m Cable	41M2141	105.32

➤ CONTINUED ➤

4-30 MM BARREL DC INDUCTIVE PROXIMITY SENSORS 3-WIRE (CONT.)

Mfg. Part No.	Sensing Distance (mm)	Sensing Face Dia. (mm)	Output Type	Max. Load Current (mA)	Termination	Stock No.	Price Each 1-9
● BI10-M30-AP6X-H1141	10	30	PNP	200	4-pin eurofast	41M2151	105.32
BI10-M30-AN6X-H1141	10	30	NPN	200	4-pin eurofast	41M2150	105.32
● BI10-G30SK-AP6X2	10	30	PNP	200	Terminal Chamber	41M2147	124.94
BI10-G30SK-AN6X2	10	30	NPN	200	Terminal Chamber	41M2146	124.94
BI15-M30-AP6X	15	30	PNP	200	2 m Cable	41M2170	114.38
BI15-M30-AN6X	15	30	NPN	200	2 m Cable	41M2168	111.04
BI15-M30-AP6X-H1141	15	30	PNP	200	4-pin eurofast	41M2171	114.38
BI15-M30-AN6X-H1141	15	30	NPN	200	4-pin eurofast	41M2169	114.38
● NI15-G30-AP6X	15	30	PNP	200	2 m Cable	41M3691	102.20
NI15-G30-AN6X	15	30	NPN	200	2 m Cable	41M3690	102.20
● NI15-M30-AP6X-H1141	15	30	PNP	200	4-pin eurofast	41M3697	102.20
NI15-M30-AN6X-H1141	15	30	NPN	200	4-pin eurofast	41M3696	102.20
● NI15-G30SK-AP6X2	15	30	PNP	200	Terminal Chamber	41M3693	124.94
NI15-G30SK-AN6X2	15	30	NPN	200	Terminal Chamber	41M3692	124.94
NI20-M30-AP6X	20	30	PNP	200	2 m Cable	41M3717	114.38
NI20-M30-AN6X	20	30	NPN	200	2 m Cable	41M3715	111.04
NI20-M30-AP6X-H1141	20	30	PNP	200	4-pin eurofast	41M3718	111.04
NI20-M30-AN6X-H1141	20	30	NPN	200	4-pin eurofast	41M3716	111.04

(113752)

8-30 MM UPROX+ BARREL DC INDUCTIVE PROXIMITY SENSORS 3-WIRE

RoHS Compliant Available

TURCK works. Industrial Automation

EG Barrel with Potted-In Cable

EG Barrel with Quick Disconnect

M Barrel with Potted-In Cable

Features:
- Choice of Barrel with Potted-In Cable or M8 (picofast), M12 (eurofast) Quick Disconnect
- Short-Circuit and Overload Protected Incorporated
- Reverse Polarity and Wire-Break Protection
- LED Indicator: Output Energized and Short-Circuit Warning
- Normally Open Output

Specifications:
- Environmental rating: NEMA 1, 3, 4, 4x, 6, 13; IP67
- Operating temperature: -13°F to 158°F
- Continuous load current: 200mA
- Voltage drop: 1.8VDC at 200mA
- Input voltage: 10-30VDC

M Barrel with Quick Disconnect

Mfg. Part No.	Sensing Distance (mm)	Sensing Face Dia. (mm)	Output Type	Termination	Stock No.	Price Each 1-9
● BI 2U-EG08-AP6X	2	8	PNP	2m Cable	99M0983	101.92
● BI 2U-EG08-AN6X	2	8	NPN	2m Cable	99M0980	101.92
● BI 2U-EG08-AP6X-V1131	2	8	PNP	3-pin picofast	99M0985	101.92
● BI 2U-EG08-AN6X-V1131	2	8	NPN	3-pin picofast	03P2076	114.66
● BI 2U-EG08-AP6X-H1341	2	8	PNP	4-pin eurofast	99M0984	101.92
● BI 2U-EG08-AN6X-H1341	2	8	NPN	4-pin eurofast	99M0981	101.92
● NI 6U-EG08-AP6X	6	8	PNP	2m Cable	99M1023	127.81
● NI 6U-EG08-AN6X	6	8	NPN	2m Cable	99M1020	127.81
● NI 6U-EG08-AP6X-V1131	6	8	PNP	3-pin picofast	99M1025	127.81
● NI 6U-EG08-AN6X-V1131	6	8	NPN	3-pin picofast	99M1022	127.81
● NI 6U-EG08-AP6X-H1341	6	8	PNP	4-pin eurofast	99M1024	127.81
● NI 6U-EG08-AN6X-H1341	6	8	NPN	4-pin eurofast	99M1021	127.81
BI 4U-M12-AP6X	4	12	PNP	2m Cable	99M0989	85.12
BI 4U-M12-AN6X	4	12	NPN	2m Cable	99M0986	85.12
BI 4U-M12-AP6X-V1131	4	12	PNP	3-pin picofast	99M0991	85.12
BI 4U-M12-AN6X-V1131	4	12	NPN	3-pin picofast	99M0988	85.12
BI 4U-M12-AP6X-H1141	4	12	PNP	4-pin eurofast	99M0990	85.12

➤ CONTINUED ➤

8-30 MM UPROX+ BARREL DC INDUCTIVE PROXIMITY SENSORS 3-WIRE (CONT.)

Mfg. Part No.	Sensing Distance (mm)	Sensing Face Dia. (mm)	Output Type	Termination	Stock No.	Price Each 1-9
BI 4U-M12-AN6X-H1141	4	12	NPN	4-pin eurofast	99M0987	85.12
NI 10U-M12-AP6X	10	12	PNP	2m Cable	99M1003	85.12
NI 10U-M12-AN6X	10	12	NPN	2m Cable	99M1000	85.12
NI 10U-M12-AP6X-V1131	10	12	PNP	3-pin picofast	99M1005	85.12
NI 10U-M12-AN6X-V1131	10	12	NPN	3-pin picofast	99M1002	85.12
NI 10U-M12-AP6X-H1141	10	12	PNP	4-pin eurofast	99M1004	85.12
NI 10U-M12-AN6X-H1141	10	12	NPN	4-pin eurofast	99M1001	85.12
BI 8U-M18-AP6X	8	18	PNP	2m Cable	99M0996	99.68
BI 8U-M18-AN6X	8	18	NPN	2m Cable	99M0994	99.68
BI 8U-M18-AP6X-H1141	8	18	PNP	4-pin eurofast	99M0997	99.68
BI 8U-M18-AN6X-H1141	8	18	NPN	4-pin eurofast	99M0995	99.68
NI 15U-M18-AP6X	15	18	PNP	2m Cable	99M1008	99.68
NI15U-M18-AN6X	15	18	NPN	2m Cable	99M1006	99.68
NI 15U-M18-AP6X-H1141	15	18	PNP	4-pin eurofast	99M1009	99.68
NI 15U-M18-AN6X-H1141	15	18	NPN	4-pin eurofast	99M1007	99.68
BI 15U-M30-AP6X	15	30	PNP	2m Cable	99M0975	99.68
BI 15U-M30-AN6X	15	30	NPN	2m Cable	99M0973	114.24
BI 15U-M30-AP6X-H1141	15	30	PNP	4-pin eurofast	99M0976	99.68
BI 15U-M30-AN6X-H1141	15	30	NPN	4-pin eurofast	99M0974	99.68
NI 30U-M30-AP6X	30	30	PNP	2m Cable	99M1016	99.68
NI 30U-M30-AN6X	30	30	NPN	2m Cable	99M1014	99.68
NI 30U-M30-AP6X-H1141	30	30	PNP	4-pin eurofast	99M1017	99.68
NI 30U-M30-AN6X-H1141	30	30	NPN	4-pin eurofast	99M1015	99.68

(113758)

12-30 MM BARREL AC/DC INDUCTIVE PROXIMITY SENSORS - 2-WIRE

RoHS Compliant Available

TURCK works. Industrial Automation

G Barrel with Quick Disconnect

G Barrel with Potted-In Cable

Specifications:
- Environmental rating: NEMA 1, 3, 4, 6, 13; IP67
- Operating temperature: -13°F to 158°F;
- Voltage drop: 6.0 VDC at Full Rated Current
- Max. Leakage Current: 1.7 mA
- Input voltage: 20-250 VAC, 10-300 VDC
- Max. Load Current: AC 400mA, DC 300mA
- Output type: AC/DC

Features:
- Choice of Barrel with Potted-In Cable or ⅞-16 (minifast) or ½-20 (microfast) Quick Disconnect
- Short-Circuit and Overload Protected
- LED Indicator: Output Energized, Short-Circuit and Power-On (For M12 Only Output Energized)

Mfg. Part No.	Sensing Distance (mm)	Sensing Face Dia. (mm)	Max. Load Current (mA, AC/DC)	Termination	Stock No.	Price Each 1-9
BI 4-G12-ADZ32X	4	12	400/300	2 m Cable	41M2074	145.55
● BI4-G12-ADZ32X-B3131	4	12	400/300	3-pin micofast	41M2075	141.27
NI 8-G12-ADZ32X	8	12	400/300	2 m Cable	41M3635	145.55
NI 8-G12-ADZ32X-B3131	8	12	400/300	3-pin micofast	41M3636	145.55
● BI 8-G18-ADZ30X2	8	18	400/300	2 m Cable	41M2122	141.27
● BI 8-G18-ADZ30X2-B3331	8	18	400/300	3-pin micofast	41M2123	141.27
● NI14-G18-ADZ30X2	14	18	400/300	2 m Cable	41M3678	145.55
● NI14-G18-ADZ30X2-B3331	14	18	400/300	3-pin micofast	41M3679	145.55
● BI15-G30-ADZ30X2	15	30	400/300	2 m Cable	41M2166	153.48
● BI15-G30-ADZ30X2-B3131	15	30	400/300	3-pin micofast	41M2167	153.48
● NI20-G30-ADZ30X2	20	30	400/300	2 m Cable	41M3710	153.48
● NI20-G30-ADZ30X2-B3131	20	30	400/300	3-pin micofast	41M3712	148.98

(113754)

RECTANGULAR DC CAPACITIVE PROXIMITY SENSORS 3-WIRE

RoHS Compliant Available

TURCK works. Industrial Automation

Q08

QF5.5

Features:
- Short-Circuit and Overload Protected Incorporated
- Choice of Potted-In Cable or M8 (picofast) Quick Disconnect Termination
- Reverse Polarity and Wire Break Protection
- LED Indicator: Output Energized and Power On
- Normally Open Output

Specifications:
- Environmental rating: NEMA 1, 3, 4, 6, 13; IP67
- Operating temperature: -13°F to 158°F
- Continuous load current: 200mA
- Voltage drop: 1.8VDC at 200mA
- Input voltage: 10-30VDC

Turck's compensation electrode technology prevents false triggers. In practice, sensors can be effected by water droplets, humidity, dust, etc., causing false outputs. To combat this effect, each Turck capacitive sensor incorporates a compensating electrode which forms part of a negative feedback circuit. When contaminants are on the sensor face, they affect the sensor's main field, as well as its compensation field. The negative feedback circuit detects the increase in both fields and can filter out the effect of contaminants.

Mfg. Part No.	Sensing Range (mm)	Output Type	Termination	Stock No.	Price Each 1-9	Price Each 10-24
● BC 5-Q08-AP6X2	5	PNP	2 m Cable	41M2205	134.63	128.47
BC 5-Q08-AN6X2	5	NPN	2 m Cable	41M2203	134.63	128.47
● BC 5-Q08-AP6X2-V1131	5	PNP	3-pin picofast	41M2206	134.63	128.47
BC 5-Q08-AN6X2-V1131	5	NPN	3-pin picofast	41M2204	134.63	128.47
● BC10-QF5.5-AP6X2	10	PNP	2 m Cable	41M2214	102.61	97.91
● BC10-QF5.5-AN6X2	10	NPN	2 m Cable	41M2212	102.61	97.91
● BC10-QF5.5-AP6X2/S250	10	PNP	2 m Cable	41M2215	87.18	83.19
● BC10-QF5.5-AN6X2/S250	10	NPN	2 m Cable	03P2075	102.57	94.59

Part number with suffix S250 has no potentiometer
(113760)

RECTANGULAR DC INDUCTIVE PROXIMITY SENSORS - 3 AND 4-WIRE

RoHS Compliant Available

TURCK works. Industrial Automation

Q08

Q10S

Features:
- Choice of Potted-In Cable or M8 (picofast), M12 (eurofast) Quick Disconnect
- Short-Circuit and Overload Protected
- Reverse Polarity and Wire Break Protection
- LED Indicator: Output Energized and Power On (Both on Q08 and CK40 only)
- Normally Open or Complementary Output (1 N.O. and 1 N.C.)

Specifications:
- Environmental rating: NEMA 1, 3, 4, 4x, 6, 13; IP67
- Operating temperature: -13°F to 158°F; Except Bi 7 +32°F to 140°F
- Continuous load current: 200mA
- Voltage drop: 1.8VDC at 200mA
- Input voltage: 10-30VDC
- Max. load current: 200mA

Turck Q-pak sensors are changing the shape of sensing, They fit in confined sensing areas where other sensors won't work their superior 2-50 mm ranges in packages up to 10 times narrower than the competition.

Mfg. Part No.	Sensing Distance (mm)	Sensing Face Dia. (mm)	Output Type	Termination	Stock No.	Price Each 1-9
● BI 5-Q08-AP6X2-V1131	5	8	PNP, NO	3-pin picofast	41M2110	103.78
BI 5-Q08-AN6X2-V1131	5	8	NPN, NO	3-pin picofast	41M2109	103.78
● BI 5-Q08-VP6X2	5	8	PNP, NO/NC	2 m Cable	41M2112	103.78
● BI 5-Q08-VN6X2	5	8	NPN, NO/NC	2 m Cable	41M2111	103.78
● BI 7-Q08-VP6X2	7	8	PNP, NO/NC	2 m Cable	41M2121	103.78
● BI 7-Q08-VN6X2	7	8	NPN, NO/NC	2 m Cable	41M2120	103.78
● BI 2-Q10S-AP6X	2	10	PNP, NO	2 m Cable	41M2064	76.15
● BI 2-Q10S-AN6X	2	10	NPN, NO	2 m Cable	41M2063	76.15
BI 5U-Q12-AP6X2-H1141	5	12	PNP, NO	4-pin eurofast	99M0993	92.11
BI 5U-Q12-AN6X2-H1141	5	12	NPN, NO	4-pin eurofast	99M0992	92.11

(113753)

SENSORS – PROXIMITY

LIMIT SWITCH STYLE UPROX+ DC INDUCTIVE PROXIMITY SENSORS - 4-WIRE

TURCK works Industrial Automation

Features:
- Multi-Position Sensor Head (9 Positions)
- Short-Circuit and Overload Protection Incorporated
- Reverse Polarity and Wire-Break Protection
- LEDs Indicate: Output Energized and Power-On
- Complementary Output (1 N.O. and 1 N.C.)

Specifications:
- Environmental rating: NEMA 1, 3, 4, 6, 13; IP67
- Operating temperature: -13°F to 158°F
- Continuous load current: 200mA
- Voltage drop: 1.8VDC at 200mA
- Input voltage: 10-65VDC

Elimate limit switch failure with long-range **combiprox** sensors. Up to 40 mm range with 9 sensing positions, weld-field immunity and extended temperature range, with the enhanced benefits of **Uprox** technology senses all metals at the same rated sensing distance.

Mfg. Part No.	Sensing Range (mm)	Output Type	Termination	Stock No.	Price Each 1-9	Price Each 10-24
BI15U-CP40-VP4X2	15	PNP, NO/NC	Terminal Chamber	41M2177	161.72	154.07
BI15U-CP40-VN4X2	15	NPN NO/NC	Terminal Chamber	41M2176	161.72	154.07
NI50U-CP40-VP4X2	50	PNP, NO/NC	Terminal Chamber	41M3747	174.05	165.82
NI50U-CP40-VN4X2	50	NPN NO/NC	Terminal Chamber	41M3746	174.05	165.82

(113759)

LIMIT SWITCH STYLE DC INDUCTIVE PROXIMITY SENSORS - 4-WIRE

RoHS Compliant Available

TURCK works Industrial Automation

Features:
- Multi-Position Sensor Head (9 Positions)
- Short-Circuit and Overload Protection Incorporated
- Reverse Polarity and Wire-Break Protection
- LEDs Indicate: Output Energized and Power-On
- Complementary Output (1 N.O. and 1 N.C.)

Specifications:
- Environmental rating: NEMA 1, 3, 4, 6, 13; IP67
- Operating temperature: -13°F to 158°F
- Continuous load current: 200mA
- Voltage drop: 1.8VDC at 200mA
- Input voltage: 10-65VDC

Elimate limit switch failure with long-range **combiprox** sensors. Up to 40 mm range with 9 sensing positions, weld-field immunity and extended temperature range.

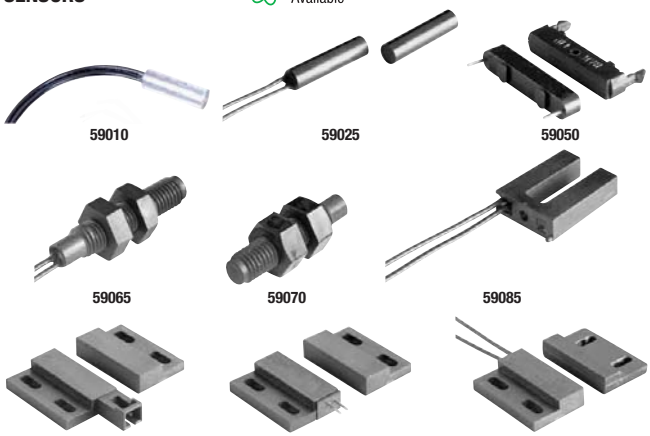
Mfg. Part No.	Sensing Range (mm)	Output Type	Termination	Stock No.	Price Each 1-9	Price Each 10-24
BI15-CP40-VP4X2	15	PNP, NO/NC	Terminal Chamber	41M2165	169.86	162.09
BI15-CP40-VN4X2	15	NPN NO/NC	Terminal Chamber	41M2164	169.86	162.09
● NI35-CP40-VP4X2	35	PNP, NO/NC	Terminal Chamber	99M1027	204.57	195.21
● NI35-CP40-VN4X2	35	NPN NO/NC	Terminal Chamber	99M1026	204.57	195.21

(113755)

MAGNETIC SENSORS

RoHS Compliant Available

HAMLIN



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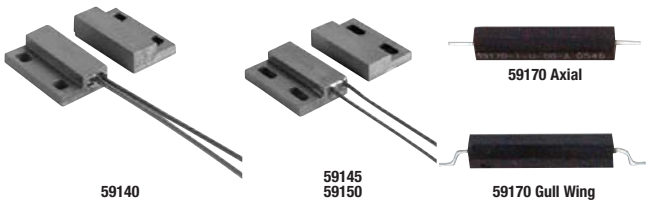
MAGNETIC SENSORS (CONT.)



- Initial contact resistance: 0.200Ω
- Typical operating time: 1.00ms
- Operating and storage temperature: -40°C to +105°C
- Shock without misoperation: 100Gs, 11ms, ½ sine wave

RECOMMENDED ACTIVATING POSITIONS

Sensor contacts are activated by an approaching magnetic actuator or selected magnet and released as it is withdrawn. Sensors are connected in series with the load. No additional power is required for operation. They are unaffected by any non-ferrous material placed between sensor and actuator. Contacts are hermetically sealed for protection from hostile environments. Operating Characteristics: Typical operate time: 1ms. Operation and storage temperature: –40°C to +105°C. Shock without false operation: 50G's 11ms, ½ sine wave. Typical life @ 5Vdc, 10 ma. 50×10^6. **59150 series** are identical to **59145 series** except leads exit from opposite ends of package. Notes: **59085 series** contains both sensor and magnet. Actuation is obtained by inserting a ferrous vane between them. Operate and release positions depend on thickness of vane. (See position B.) **59050 series** PINS 0.0185D x 0.130″L, 0.8″ spacing. **59125 series** terminals 0.025″, 0.240″L, 0.100″ spacing. **Mfg. part no. 59135-12″** Flying leads, 20 AWG, 19 x 32 teflon-insulat. 200°C, 300V, UL 1180. All others-12″ Flying leads, 24 AWG, 7/32 PVC, 105°C, UL 1430 or UL 1569, 59135 Series CSA certified. **59030** and **59050 series** are not UL listed.

SPST-NO CONTACTS

Mfg. Part No.	Must Operate Distance (Inches)	Contact Power Max. (W)	Swiching Voltage/ Current (Volts/A)	Matching Actuator	Sensor Stock No.	Price Each 1-9
● 59010-1-S-02-A*	0.23	10	170/0.5	...	89K7537	14.11
● 59010-1-T-02-A*	0.17	10	170/0.5	...	89K7538	14.11
● 59025-010*	0.15	10	200/0.5	● 57025-000	05M4561	3.15
● 59025-020*	0.15	10	300/0.5	● 57025-000	05M4562	3.61
● 59050-010	0.075	10	200/0.5	● 57050-000	89F1394	1.55
● 59065-010	0.15	10	200/0.5	● 57065-000	05M4565	4.11
● 59065-020*	0.15	10	300/0.5	● 57065-000	19M8515	4.38
● 59070-010	0.15	10	200/0.5	● 57070-000	05M4567	4.11
● 59070-020*	0.15	10	300/0.5	● 57070-000	05M4568	4.38
● 59085-010	0.1	5	175/0.25	...	05M4570	9.86
● 59105-010	0.15	10	200/0.5	● 57105-000	05M4573	4.75
● 59105-020*	0.15	10	300/0.5	● 57105-000	05M4574	5.42
● 59125-010	0.15	10	200/0.5	● 57125-000	05M4575	4.16
● 59125-020*	0.15	10	300/0.5	● 57125-000	05M4576	4.75
● 59135-010	0.35	10	200/0.5	● 57135-000	05M4577	6.80
● 59135-020*	0.35	10	300/0.5	● 57135-000	05M4578	7.19
● 59140-010	0.175	10	200/0.5	● 57140-000	05M4580	3.20
● 59140-020*	0.175	10	300/0.5	● 57030-000	05M4581	3.85
● 59145-010	0.225	10	200/0.5	● 57145-000	05M4584	3.36
● 59145-020*	0.225	10	300/0.5	● 57145-000	05M4585	4.01
● 59150-010	0.225	10	200/0.5	● 57150-000	17M8454	3.40
● 59150-020*	0.225	10	300/0.5	● 57150-000	05M4588	4.01
● 59170-1-S-00-A	0.295	10	200/0.5	...	89K7540	2.13
● 59170-1-T-00-A	0.256	10	200/0.5	...	89K7543	2.13
● 59170-1-U-00-A	0.197	10	200/0.5	...	89K7546	2.13
● 59170-1-S-00-C	0.295	10	200/0.5	...	89K7541	2.13
● 59170-1-T-00-C	0.256	10	200/0.5	...	89K7544	2.13
● 59170-1-U-00-C	0.197	10	200/0.5	...	89K7547	2.13
● 59170-1-S-00-D	0.295	10	200/0.5	...	89K7542	1.27
● 59210-020	...	10	250/0.5	● 57140-000	05M4590	6.53
SPST-NC CONTACTS						
● 59025-040*	0.15	5	175/0.25	● 57025-000	05M4563	4.99
● 59065-040	0.15	5	175/0.25	● 57065-000	05M4566	5.52
● 59085-040	0.1	5	200/0.5	...	05M4572	6.93
● 59140-040	0.175	5	175/0.25	● 57140-000	05M4583	5.30
● 59145-040	0.225	5	175/0.25	● 57145-000	05M4587	5.36
SPDT-CO CONTACTS						
● 59025-030*	0.15	5	175/0.25	● 57025-000	17M8453	5.27
● 59030-030	0.150	10	175/0.25	● 57030-000	05M4564	5.83
● 59050-030	0.075	5	175/0.25	● 57050-000	50F7991	4.75
● 59065-030	0.15	5	175/0.25	● 57065-000	11M1788	5.86
● 59070-030	0.15	5	175/0.25	● 57070-000	05M4569	5.86
● 59085-030	0.1	5	175/0.25	...	05M4571	10.41
● 59135-030	0.35	5	175/0.25	● 57135-000	10M9205	8.62
● 59140-030	0.175	5	175/0.25	● 57140-000	05M4582	5.64
● 59145-030	0.225	5	175/0.25	● 57145-000	05M4586	5.61
● 59150-030	0.225	5	175/0.25	● 57150-000	05M4589	5.46

Series 59085 contains both sensor and magnet. Actuation is obtained by inserting a ferrous vane between them. Operate and release positions depend on thickness of vane. **NO** = Normally Open; **NC** = Normally Closed; **CO** = Changeover.

* High Voltage

(5217)

T-GAGE M18T ANALOG SERIES INFRARED TEMPERATURE SENSORS

BANNER
more sensors, more solutions

Features:
- Non-contact
- Fast 75ms response
- Easy-to-use TEACH mode programming
- No potentiometer adjustments
- Small, self-contained package, no external controller needed
- Does not require product motion for sensing
- Remote TEACH available in static and dynamic TEACH
- Alarm output to indicate signal maximum
- Programmable positive or negative analog slope: The sensor establishes the 0V output condition with the first taught condition and 10V with the second taught condition. It automatically scales between these 2 conditions. Minimum taught differential is 10°C

TEMPERATURE SENSORS

Mfg. Part No.	D:S Ratio	Cable	Sensing Face	Stock No.	Price Each
M18TUP14	14:1	5-wire, 2m shielded cable	Germanium Lens	93K6141	317.00
M18TUP14Q	14:1	5-pin, Euro-style integral QD		93K6142	317.00
M18TUP8	8:1	5-wire, 2m shielded cable	Integrated Lens	93K6145	307.00
M18TUP8Q	8:1	5-pin, Euro-style integral QD		93K6146	307.00
M18TUP6E	6:1	5-wire, 2m shielded cable	Enclosed Plastic Face	93K6143	307.00
M18TUP6EQ	6:1	5-pin, Euro-style integral QD		93K6144	307.00

QUICK-DISCONNECT CABLES

Mfg. Part No.	Description	Length (m)	Stock No.	Price Each 1-9
MQDEC2-515	5-pin Euro-Style Straight, with shield	5	21H2313	33.81

BRACKETS

Mfg. Part No.	Description	Stock No.	Price Each 1-9
SMB18A	Right-angle mounting bracket	02H7579	3.18
SMB18SF	One-piece swivel bracket	02H7580	7.40

(88872)

PYROPEN HANDHELD INFRARED THERMOMETERS

Just Added

CALEX ELECTRONICS LIMITED

- Unique ultra compact design
- Wide temperature range: -20°C to 500°C
- High accuracy and repeatability
- Response time: 500ms
- Narrow field-of-view: 8:1
- Optional laser sighting
- Optional data logging and data acquisition

The ultra compact Pyropen has been specifically designed to fit into your pocket, just like a pen, so that you can carry it with you anywhere you go. You simply aim, press the SCAN button and read the temperature immediately. The non-contact nature of the measurement means that you can take the temperature of moving, rotating, inaccessible or hazardous objects. **Mfg. part no. PYROPEN L** has all the features of **mfg. part no. PYROPEN E**, plus laser sighting for small or distant targets and adjustable emmissivity. **Mfg. part no. PYROPEN U** has all the features of **mfg. part no. PYROPEN L**, plus a built-in memory for logging up to 100 temperatures and the ability to perform PC based data acquisition.

Mfg. Part No.	Data Logging and Acquisition	Laser Sighting	Emissivity	Accuracy	Stock No.	Price Each
PYROPEN E	No	No	0.95	+/-1%	29K6567	179.00
PYROPEN L	No	Yes	0.3 to 1.0	+/-1%	29K6568	219.00
PYROPEN U	Yes	Yes	0.3 to 1.0	+/-1%	10R5146	269.00

(84664)

New products added weekly

See the newest products, technologies and suppliers on our website.

(148886)

PYROCOUPLE SERIES NON-CONTACT INFRARED TEMPERATURE SENSORS

RoHS Compliant Available

CALEX ELECTRONICS LIMITED

- 4-20mA or thermocouple outputs
- Stainless steel construction
- Wide temperature range
- High accuracy and repeatability: 1%/1° accuracy
- Response time: 240ms
- Optional water/air cooled jacket (-WJ)

The **PyroCouple** series are high quality low cost, miniature sensors which measure the temperature of inaccessible or moving objects and materials. **PyroCouple** sensors with 2 wire transmit the target temperature as a 4-20mA output. **PyroCouple** sensors with 4 wires transmit the target temperature as a thermocouple **plus** the sensor internal temperature as a 4-20mA output.

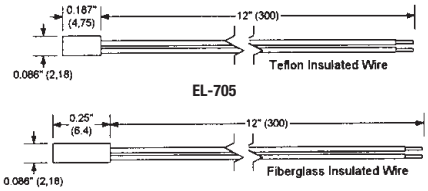
Mfg. Part No.	Field-of View	Temperature Range	Output	Stock No.	Price Each
PC21MT-0	2:1	0°C to 250°C	4-20mA	01N3766	209.00
PC21MT-0-WJ	2:1	0°C to 250°C	4 - 20mA	01N3767	439.00
PC21MT-3	2:1	0°C to 250°C	J thermocouple	01N3768	229.00
PC21MT-4	2:1	0°C to 250°C	K thermocouple	01N3769	229.00
PC151MT-0-WJ	10:1	0°C to 250°C	4 to 20mA	01N3763	479.00
PC151MT-3	10:1	0°C to 250°C	J thermocouple	01N3764	269.00

(114867)

CYLINDRICAL WIRE LEADED PLATINUM RESISTANCE TEMPERATURE DETECTORS (RTDs)

RoHS Compliant Available

Honeywell
Sensing and Control



Small cylindrical ceramic bodies are designed for drill holes and probe assemblies. Applications include HVAC room, duct and refrigerant equipment, temperature compensation in instrument and probe assemblies, and temperature regulation in process control. RTD type: 1000Ω/375 Alpha or 100Ω/385 Alpha. Interchangeability: ±0.1% (±0.3°C) or ±0.2% (±0.5°C) @ 0°C. Temperature range: –200°C to +260°C, Teflon®; –75°C to +540°C fiberglass. **EL-705** have Teflon® insulated wire; **EL-707** have fiberglass insulated wire.

Mfg. Part No.	Resistance @ 0°C	Resistance Inter-changeability	Temperature Coefficient of Resistance* 0-100°C	Stock No.	Price Each 1-24
HEL-705-U-0-12-00	1000Ω	±0.2%	3.75Ω/°C	91F7129	26.05
HEL-705-U-1-12-00	1000Ω	±0.1%	3.75Ω/°C	15M0243	25.21
HEL-705-T-0-12-00	100Ω	±0.2%	0.385Ω/°C	15M0242	44.30
HEL-707-U-0-12-00	1000Ω	±0.2%	3.75Ω/°C	15M0245	34.16
HEL-707-U-1-12-00	1000Ω	±0.1%	3.75Ω/°C	15M0246	33.01
HEL-707-T-0-12-00	100Ω	±0.2%	0.385Ω/°C	15M0244	62.27

*Average TCR
(15545)

HIGH PERFORMANCE PLATINUM RESISTANCE TEMPERATURE TRANSMITTERS

Just Added

NOSHOK

- Proven platinum 100 ohm sensor
- Maximum reliability
- Wide variety of temperature ranges and connections
- Quick reaction time
- Accuracy: Class B (+/- 0.5% Full Scale)
- Output signals: 4 mA to 20 mA 2-wire
- Power supply: 12 Vdc to 30 Vdc
- Stem diameter: 6mm

The NOSHOK Series 800 temperature transmitter provides an unbeatable level of performance at an economical price. Using the proven reliability and stability of 100 ohm platinum resistance technology, this transmitter offers a broad array of choices for the OEM and user alike. A rigorous test and inspection process is performed on all NOSHOK temperature transmitters prior to shipment to further ensure 100% "out of the box" reliability.

Mfg. Part No.	Temperature Range	Stem Length (inch)	Stock No.	Price Each Each
800-40/120-1-1-8-8-040-6	-40/120 °F	4	39P8259	192.91
800-40/120-1-1-8-8-060-6	-40/120 °F	6	39P8260	198.56
800-40/120-1-1-8-8-090-6	-40/120 °F	9	39P8261	200.47
800-25/125-1-1-8-8-040-6	25/125 °F	4	39P8256	192.91
800-25/125-1-1-8-8-060-6	25/125 °F	6	39P8257	198.56

CONTINUED

SENSORS – TEMPERATURE • THERMOCOUPLES

HIGH PERFORMANCE PLATINUM RESISTANCE TEMPERATURE TRANSMITTERS (CONT.)

Mfg. Part No.	Temperature Range	Stem Length (inch)	Stock No.	Price Each Each
800-25/125-1-1-8-8-090-6	25/125 °F	9	39P8258	200.47
800-0/140-1-1-8-8-040-6	0/140 °F	4	39P8246	192.91
800-0/140-1-1-8-8-060-6	0/140 °F	6	39P8248	198.56
800-0/140-1-1-8-8-090-6	0/140 °F	9	39P8249	200.47
800-0/200-1-1-8-8-040-6	0/200 °F	4	39P8250	192.91
800-0/200-1-1-8-8-060-6	0/200 °F	6	39P8251	198.56
800-0/200-1-1-8-8-090-6	0/200 °F	9	39P8252	200.47
800-20/240-1-1-8-8-040-6	20/240 °F	4	39P8253	192.91
800-20/240-1-1-8-8-060-6	20/240 °F	6	39P8254	198.56
800-20/240-1-1-8-8-090-6	20/240 °F	9	39P8255	200.47
800-50/300-1-1-8-8-040-6	50/300 °F	4	39P8262	192.91
800-50/300-1-1-8-8-060-6	50/300 °F	6	39P8263	198.56
800-50/300-1-1-8-8-090-6	50/300 °F	9	39P8264	200.47
800-50/500-1-1-8-8-040-6	50/500 °F	4	39P8265	192.91
800-50/500-1-1-8-8-060-6	50/500 °F	6	39P8266	198.56
800-50/500-1-1-8-8-090-6	50/500 °F	9	39P8267	200.47
800-0/1000-1-1-8-8-040-6	0/1000 °F	4	39P8243	192.91
800-0/1000-1-1-8-8-060-6	0/1000 °F	6	39P8244	198.56
800-0/1000-1-1-8-8-090-6	0/1000 °F	9	39P8245	200.47

(136947)

ELECTRONIC INDICATING TEMPERATURE SWITCH/ TRANSMITTERS

NOSHOK

Just Added

- Wide variety of temperature ranges
- Compact dimensions
- Cost effective
- Service-friendly
- Simple handling
- Single Output: 4 mA to 20 mA
- Working Pressure: 6mm Stem Diameter; 600 psi
- Power Supply: 12 Vdc to 30 Vdc
- Switch Function: 1 N.C. or N.C. Switch-PNP
- Stem Diameter: 6mm

The NOSHOK 850 Temperature Switch measures and displays temperature and has one or two switching outputs as well as an optional analog output. The temperature set points, reset points, switching functions and the measuring range of the optional analog output are simple to adjust via two buttons. All these features and measuring range between –300°F and 1100°F (-200°C and 600°C) cover the majority of temperature measuring and switching tasks. Different process connections, which are also available as adjustable screw connections, underline the versatility of the NOSHOK 850 Series. For fast response times a version with tapered stem is also available. All wetted parts as well as the housing are made of stainless steel. The housing and the replaceable measuring insert are screwed together. This allows the exchange of the measuring insert without opening the connection to the process.

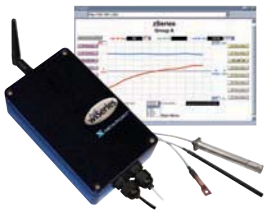
Mfg. Part No.	Temperature Range	Stem Length (inch)	Stock No.	Price Each Each
850-2-2-50/400-2-040-6	-50/400 °F	4	39P8274	484.86
850-2-2-50/400-2-060-6	-50/400 °F	6	39P8275	490.51
850-2-2-50/400-2-090-6	-50/400 °F	9	39P8276	492.42
850-2-2-50/750-2-040-6	-50/750 °F	4	39P8277	537.98
850-2-2-50/750-2-060-6	-50/750 °F	6	39P8278	543.63
850-2-2-50/750-2-090-6	-50/750 °F	9	39P8279	551.54
850-2-2-50/1100-2-040-6	-50/1100 °F	4	39P8271	537.98
850-2-2-50/1100-2-060-6	-50/1100 °F	6	39P8272	543.63
850-2-2-50/1100-2-090-6	-50/1100 °F	9	39P8273	551.54
850-2-2-300/1100-2-040-6	-300/1100 °F	4	39P8268	595.71
850-2-2-300/1100-2-060-6	-300/1100 °F	6	39P8269	601.36
850-2-2-300/1100-2-090-6	-300/1100 °F	9	39P8270	603.27

(136948)

ZED-X-P HIGH POWER WIRELESS SENSORS

NEW TECHNOLOGY

NEWPORT



- Temperature
- Humidity
- Barometric Pressure
- Email Alarms
- Web Server
- No Special Software Required

The rugged high-performance, high power **NEWPORT® wiSeries** wireless sensors **zED-x-P** series are compatible with the NEWPORT zSeries and wiSeries system for Web-based

➤ CONTINUED ➤

ZED-X-P HIGH POWER WIRELESS SENSORS (CONT.)

monitoring of Temperature, Humidity, and Barometric Pressure. The radio is a High Power IEEE 802.15.4 compliant transmitter operating at 2.4 GHz designed to transmit over greater distances and through more obstructions than the standard transmitter. These wireless sensors transmit up to 1000m (3280')--without obstructions or interferences to a **zSeries coordinator** or **wiSeries meter-controller**. The coordinators and controllers connect directly to an Ethernet network and the Internet and serve active Web Pages to display and chart the data. You can monitor and record Temperature, Relative Humidity, and Barometric Pressure over an Ethernet network or the Internet without any special software--just your Web Browser. You can even set alarms to be notified by email. Alarms can be sent to a single user or to a group distribution list, including text messages to cell phones.

Mfg. Part No.	Description	Stock No.	Price Each Each
ZED-TP1-P	Wireless Temperature Sensor w/ Stick Probe, ac powered	05R8827	195.00
ZED-TP2-P	Wireless Temperature Sensor w/ Lug Mount Probe, ac powered	05R8828	195.00
ZED-THP-P	Wireless Temperature and Humidity Sensor, ac powered	05R8826	240.00
ZED-BTP-P	Wireless Barometric Pressure and Temp. Sensor, ac powered	05R8825	245.00
ZCDR	Coordinator, which can support up to thirty-two (32) end devices / Sensors	05R8824	195.00

(147130)

NMP MINIATURE CONNECTORS GLASS-FILLED NYLON WITH 220°C (425°F) SERVICE TEMPERATURE

NEW TECHNOLOGY

NEWPORT

- Glass-Filled Nylon
- Heavy Duty Construction
- Color-Coded
- Accepts Stranded or Solid Wire up to Size 20 AWG

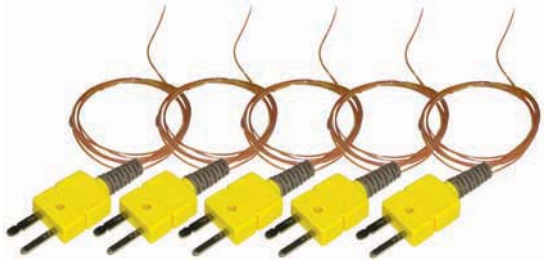
Mfg. Part No.	Shell Color	Type	Stock No.	Price Each Each
NMP-K-F	Yellow	K	26C1260	...
NMP-K-M/N	Yellow	K	11J4036	2.20
NMP-T-F/N	Blue	T	21J8663	2.55
NMP-T-M/N	Blue	T	96B0570	2.20
NMP-J-F/N	Black	J	09J3806	2.20
NMP-J-M/N	Black	J	05R5273	2.20

(147107)

5LRTC, 5SRTC SERIES READY-MADE INSULATED THERMOCOUPLES, SUBMINIATURE CONNECTORS WITHOUT SPOOL CAP

NEWPORT

NEW TECHNOLOGY



- PFA Insulated Wire has Max Service Temp of 260°C (500°F)
- Glass Braid Insulated Wire has Max Service Temp of 480°C (900°F)
- Kapton® Insulated Wire has Max Service Temp of 316°C (600°F)
- Max Service Temp for Connector Body 220°C (425°F)

Made from special limits of error wire. Also available in T and E calibrations. Longer length available.

5LRTC SERIES

Mfg. Part No.	Insulation	AWG	Stock No.	Price Each Each
5LRTC-GG-J-20-36	Glass Braid	20	05R5202	58.00
5LRTC-GG-K-20-36	Glass Braid	20	05R5204	58.00
5LRTC-GG-J-24-36	Glass Braid	24	05R5203	52.00
5LRTC-GG-K-24-36	Glass Braid	24	05R5205	52.00
5LRTC-TT-J-20-36	PFA	20	05R5208	69.00
5LRTC-TT-K-24-36	PFA	24	05R5209	58.00
5LRTC-KK-J-20-36	Kapton	20	05R5206	90.00
5LRTC-KK-K-20-36	Kapton	20	05R5207	90.00

➤ CONTINUED ➤

5LRTC, 5SRTC SERIES READY-MADE INSULATED THERMOCOUPLES, SUBMINIATURE CONNECTORS WITHOUT SPOOL CAP (CONT.)

5SRTC SERIES

Mfg. Part No.	Insulation	AWG	Stock No.	Price Each Each
5SRTC-GG-J-20-36	Glass Braid	20	05R5210	54.00
5SRTC-GG-K-20-36/N	Glass Braid	20	73P7392	54.00
5SRTC-GG-J-24-36	Glass Braid	24	05R5211	48.00
5SRTC-GG-K-24-36	Glass Braid	24	05R5212	48.00
5SRTC-TT-J-20-36	PFA	20	05R5214	65.00
5SRTC-TT-K-24-36/N	PFA	24	30M9423	54.00
5SRTC-TT-K-20-36/N	PFA	20	24C5051	69.75
5SRTC-KK-K-20-36	Kapton	20	05R5213	86.00

(147105)

MPJ SERIES MINIATURE PANEL JACKS

NEW TECHNOLOGY

NEWPORT

Features

- Compact Size
- Easy Mount
- Accessible Terminal Screws
- Color-Coded
- Rated 220°C (425°F)
- Accepts Newport's as well as all Industry Standard Miniature Male Connectors

The MPJ Miniature Panel Jack requires less than half of the panel area required by the standard size version. A simple push-on clip is all that is required to retain the connector in a rectangular cutout, or the optional MSS snap strip can be used to mount a row. Angled terminal screws allow wiring to be done after panel assembly.

Mfg. Part No.	Description	Stock No.	Price Each 1-9
MPJ-K-F/N	Type K, Yellow	50B5904	2.50
MPJ-T-F/N	Type T, Blue	07C7675	2.50
MPJ-J-F/N	Type J, Black	07C7674	2.50
MPJ-E-F/N	Type E, Purple	05R5248	2.92

(147106)

ULTRA HIGH TEMPERATURE THERMOCOUPLE CONNECTORS RATED TO 560°C (1200°F)

NEW TECHNOLOGY

NEWPORT

High Purity Alumina body connectors used for high temperature Thermocouple connections. Extra heavy-duty construction, color dot coded for applications such as high vacuum furnaces where contamination would adversely affect the process. Available in types J (iron-constantan), K (chromel-alumel) and T (copper-constantan). Types E,R,S,G,C,D,U and N are available upon request. Type **SHX** connector is miniature flat pin. Type **NHX** connector is standard size round pins.

Mfg. Part No.	T/C Type	Connector	Stock No.	Price Each Each
SHX-K-M/N	K	Male	48F5069	5.50
SHX-K-F/N	K	Female	48F5070	6.50
SHX-J-M/N	J	Male	48F5071	5.50
SHX-J-F/N	J	Female	48F5072	6.50
SHX-T-M/N	T	Male	05R5316	7.13
SHX-T-F/N	T	Female	05R5315	8.42
NHX-K-M	K	Male	72C8638	8.88
NHX-K-F	K	Female	72C8637	7.77
NHX-J-M/N	J	Male	48F5079	8.00
NHX-J-F/N	J	Female	48F5080	7.00
NHX-T-M/N	T	Male	05R5314	12.63
NHX-T-F/N	T	Female	05R5313	11.34

(147108)

Current Order Status & History

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

(148881)

TRANSITION ADAPTORS/ CONNECTORS

NEW TECHNOLOGY

Gems Sensors & Controls — Our Experience • Your Solution

- Rugged, One-Piece Molded Construction
- ANSI Color-Coded
- For Use with a Variety of Meters and Probes

TAS adaptors provide quick and easy connections between standard and miniature connector systems. These color-coded units are available in all thermocouple calibrations including Tungsten-Rhenium alloys. Any combination of male and female contacts for miniature and standard positions of the adaptor are available.

Mfg. Part No.	Description	T/C Type	Stock No.	Price Each 1-9
TAS-K-1	Male standard to male mini	K	57K6584	5.55
TAS-J-1	Male standard to male mini	J	08J4320	5.55
TAS-K-2	Female standard to male mini	K	04H0807	5.55
TAS-J-2	Female standard to male mini	J	04H0809	5.55
TAS-K-3	Male standard to female mini	K	25H8355	5.55
TAS-J-3	Male standard to female mini	J	78H4240	5.55
TAS-K-4	Female standard to female mini	K	54H4029	5.55
TAS-J-4	Female standard to female mini	J	08J4323	5.55
TAS-U-5	Male banana plug to female mini	Uncompensated	95B8685	5.55
TAS-U-6	Sheathed banana plug to banana plug	Uncompensated	05R5144	6.48
TAS-U-7	Sheathed banana plug to banana plug set	Uncompensated	05R5145	6.48

(147109)

INDUSTRIAL THERMOCOUPLES

NEWPORT

The NB industrial style Thermocouple assembly is offered as 12″ stainless-steel sheath probe with Cast Iron protection head (NB1) , terminal block and ½″ NPT threaded connection. Types J (iron-constantan) and K (chromel-alumel). "G" in type number denotes grounded junction; "U" in type number denotes ungrounded junction. Also available in T and E. Other head assemblies: NB2 Aluminium or NB4 Sub-Minaiture Aluminum. Go online or call for other lengths and head assemblies.

Mfg. Part No.	T/C Type	Dia.	Stock No.	Price Each 1-4
NB1-ICSS-14G-12/N	J	¼″	93F9276	65.80
NB1-ICSS-14U-12/N	J	¼″	93F9278	68.60
NB1-CASS-18G-12/N	K	⅛″	93F9279	58.80
NB1-CASS-14G-12/N	K	¼″	93F9280	65.80
NB1-CASS-18U-12/N	K	⅛″	93F9263	59.40
NB1-CASS-14U-12	K	¼″	93F9264	66.15

(6611)

TRANSITION JOINT THERMOCOUPLE ASSEMBLIES

NEWPORT

12″ stainless-steel sheath probes are available in Types J (iron-constantan) and K (chromel-alumel). Types T and E available upon request. Grounded junction is standard. Ungrounded and exposed junctions and various lengths are available; *go online or call.*

Mfg. Part No.	T/C Type	Dia.	Stock No.	Price Each Each
JTSS-116G-12/N	J	1⁄16″	98B2698	19.00
JTSS-18G-12/N	J	⅛″	93F9288	19.00
JTSS-14G-12/N	J	¼″	93F9289	19.00
KTSS-116G-12/N	K	1⁄16″	93F9272	19.00
KTSS-18G-12/N	K	⅛″	93F9273	19.00
KTSS-14G-12/N	K	¼″	93F9274	19.00

(6612)

THERMOCOUPLES

EXTRUDER THERMOCOUPLES

NEWPORT

2″ stainless-steel probe with ⅛″ NPT compression fitting (allow 1″ for compression fitting) for measuring temperature in processing machinery at die, barrel, crosshead, or pipewall. Probe comes with 60″ of armored cable, 3⁄16″ dia., ⅛″ NPT brass compression fitting, spade lugs, termination and grounded junction. Available in Types J (iron-constantan) and K (chromel-alumel). Types T and E are available upon request.

Mfg. Part No.	T/C Type	Probe Length	Stock No.	Price Each 1-4
CF000J2601/N	J	2″	93F9265	28.77
CF000K2601/N	K	2″	93F9266	29.61
CF000J4601/N	J	4″	93F9267	34.25
CF000K4601/N	K	4″	93F9268	29.61

(6616)

INSULATED THERMOCOUPLES

NEWPORT

- 36″ Length Stripped-End
- Type J: Iron-Constantan; Type K: Chromel-Alumel
- ″TT″ in Mfg. Part No.: Teflon Insulation; ″GG″: Glass Braid Insulation
- **Sold in Packages of 5**

Mfg. Part No.	T/C Type	AWG	Stock No.	Price per Pkg. 1-4
5TC-TT-K-24-36/N	K	24	93F9309	52.65
5TC-TT-K-30-36/N	K	30	93F9310	59.40
5TC-TT-J-24-36/N	J	24	93F9311	52.65
5TC-TT-J-30-36/N	J	30	93F9312	61.60
5TC-GG-K-24-36/N	K	24	93F9313	46.20
5TC-GG-K-30-36/N	K	30	93F9314	46.20
5TC-GG-J-24-36/N	J	24	93F9315	46.20
5TC-GG-J-30-36/N	J	30	93F9316	46.20

(6615)

FAST RESPONSE THERMOCOUPLES

NEWPORT

Self-adhesive thermocouples are designed for fast temperature measurements. Manufactured from 30AWG Teflon-coated thermocouple wire with a flattened bead secured between a high-temperature polymer and a high-temperature, fiber-reinforced polymer for thermal conductivity and fast response. **Sold in packages of 5.**

Mfg. Part No.	T/C Type	Stock No.	Price per Pkg. 1-4
SA1-J/N	J	12K5541	81.00
SA1-K/N	K	66F5598	81.00
SA1-E/N	E	48F5576	78.60
SA1-T/N	T	48F5577	78.60

(36976)

TechCast® Product Training

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

(148857)

QUICK-DISCONNECT ASSEMBLIES

NEWPORT

12″ stainless-steel sheath probe assemblies with standard size male connector molded directly onto the probe. Available in Types J (iron-constantan) and K (chromel-alumel). Types T and E available upon request. Standard size female mating connector included. Grounded junction is standard. Ungrounded and exposed junctions, as well as other lengths, are available; *go online or call.*

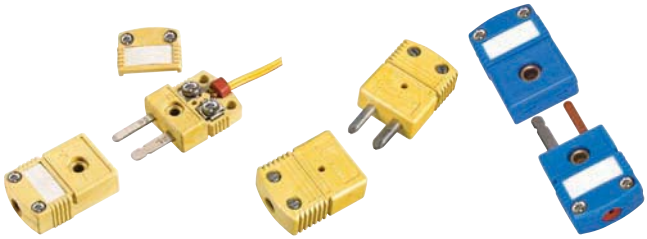
Mfg. Part No.	T/C Type	Dia.	Stock No.	Price Each 1-4
JQSS-116G-12/N	J	1⁄16″	93F9281	31.02
JQSS-18G-12/N	J	⅛″	93F9282	32.43
JQSS-14G-12/N	J	¼″	93F9283	38.07
KQSS-116G-12/N	K	1⁄16″	93F9284	31.02
KQSS-18G-12/N	K	⅛″	93F9285	32.43

(6613)

THERMOCOUPLE CONNECTORS

NEW TECHNOLOGY

NEWPORT



SMPW OSTW HMPW

- Type SMPW connector has miniature flat pins. Rated to 220°C (425 °F)
- Type OSTW connector has standard size round pins. Rated to 220°C (425 °F)
- Type HMPW connector has miniature flat pins, high temp Rated 260°C (500F)
- Type HSTW connector has standard size round pins, high temp Rated 260°C (500F)

HSTW

Color Coded, Glass-filled nylon shell connectors used for accurate thermocouple connections. Available in types J (iron-constantan), K (chromel-alumel) and T (copper-constantan). Types E,R,S,G,C,D,U and N are available upon request.

Mfg. Part No.	T/C Type	Connector	Stock No.	Price Each 1-4
SMPW-K-M/N	K	Male	50B5932	2.49
SMPW-K-F/N	K	Female	93B0462	3.20
SMPW-J-M/N	J	Male	20C5613	2.49
SMPW-J-F/N	J	Female	20C3726	3.20
SMPW-T-F/N	T	Female	05C3547	2.50
OSTW-K-M	K	Male	08J4424	3.61
OSTW-KF/N	K	Female	91B2051	4.89
OSTW-J-M/N	J	Male	19C9787	2.50
OSTW-J-F/N	J	Female	73P7373	3.78
OSTW-T-M/N	T	Male	53K6283	3.61
OSTW-T-F/N	T	Female	53K6290	3.78
HMPW-K-F/N	K	Female	89C1914	3.48
HSTW-K-M	K	Male	72C9334	2.72
HSTW-K-F/N	K	Female	88M3224	4.00

(6614)

CIRCUIT BOARD THERMOCOUPLE CONNECTORS

NEWPORT

- Attaches Directly to Circuit Board
- Perfect for Handheld Thermometers
- J, K, T and E Calibrations
- Optional Retainer Clip for Transistor Providing Cold Junction Compensation
- Accepts Either Standard or Miniature Size Male Connectors

Mfg. Part No.	Description	Stock No.	Price Each 1-2
PCC-OST-J	OST Standard Size, Type J	01H0900	3.20
PCC-OST-E	OST Standard Size, Type E	01H0899	3.20

CONTINUED

CIRCUIT BOARD THERMOCOUPLE CONNECTORS (CONT.)

Mfg. Part No.	Description	Stock No.	Price Each 1-2
PCC-SMP-J	SMP Miniature Size, Type J	01H0904	3.15
PCC-SMP-K	SMP Miniature Size, Type K	01H0905	2.56
PCC-SMP-T	SMP Miniature Size, Type T	01H0906	3.20
PCC-SMP-E	SMP Miniature Size, Type E	01H0903	3.20

(73334)

THERMOCOUPLE WIRE

NEWPORT

Insulated Thermocouple offered in Teflon or Glass insulation. Available in Types J (iron-constantan) and K (chromel-alumel) and T(copper-constantan). SLE (Special Limits of Error Wire). Other Insulation, Types, Lengths and Gauges are available; *go online or call.*

Mfg. Part No.	AWG	T/C Type	Insu-lation	Length	Stock No.	Price Each 1-4
TT-K-20-25/N	20	K	Teflon®	25	93F9302	40.61
TT-K-24-25/N	24	K	Teflon®	25	93F9303	30.13
TT-K-24-500/N	24	K	Teflon®	500	83H6214	185.00
TT-K-30-SLE-500	30	K	Teflon®	500	78H4663	185.00
GGK2025/N	20	K	Glass	25	93F9304	35.62
GGK2425/N	24	K	Glass	25	93F9305	26.03
TT-J-20-25/N	20	J	Teflon®	25	93F9306	37.99
TTJ-20-100N	20	J	Teflon®	100	51B611	82.00
TT-J-24-25/N	24	J	Teflon®	25	93F9307	27.51
GG-J-20-25/N	20	J	Glass	25	51B582	41.82
GGJ2425/N	24	J	Glass	25	93F9291	20.85
TT-T-24-SLE-100	24	T	Teflon®	P100	81H2001	65.00
TT-T-30-SLE-1000	30	T	Teflon®	1000	59K9467	430.00

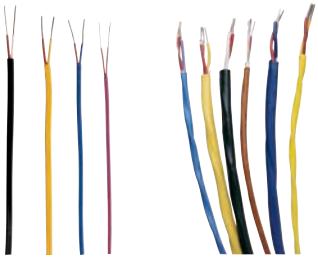
(6610)

THERMOCOUPLE WIRE - DUPLEX EXTENSION GRADE

NEW TECHNOLOGY

NEWPORT

- Insulated Thermocouple offered in Neoflon PFA and Polyvinyl
- Available in Types J (iron-constantan) K (chromel-alumel) and T (copper-constantan).



Other Insulation, Types, Lengths and Gauges are available; Go online or call

Mfg. Part No.	AWG	T/C Type	Insulation	Length (ft.)	Stock No.	Price Each Each
EXTT-J-16-25/N	16	J	Neoflon PFA	25	05R4108	66.00
EXTT-J-20-500/N	20	J	Neoflon PFA	500	97H2717	176.70
EXTT-J-24-25/N	24	J	Neoflon PFA	25	05R4109	28.49
EXTT-K-16-25/N	16	K	Neoflon PFA	25	69H6721	62.00
EXTTK20500/N	20	K	Neoflon PFA	500	91B0860	223.20
EXTT-K-20-100	20	K	Neoflon PFA	100	96B8240	78.12
EXTT-K-24-25/N	24	K	Neoflon PFA	25	05R4110	34.97
EXTT-T-16-100/N	16	T	Neoflon PFA	100	05R4111	190.00
EXTT-T-20-25/N	20	T	Neoflon PFA	25	05R4112	36.26
EXTT-T-24-25/N	24	T	Neoflon PFA	25	05R4113	29.79
EXPP-J-16-25/N	16	J	Polyvinyl	25	05R4106	34.97
EXPP-J-20-50/N	20	J	Polyvinyl	50	39C5258	22.00
EXPP-K-16-25/N	16	K	Polyvinyl	25	05R4107	49.00
EXPP-K-20-100	20	K	Polyvinyl	100	30C4289	...
EXPP-K-24S-1000	24 STRANDED	K	Polyvinyl	1000	39K4425	445.00
EXPP-K-20-50/N	20	K	Polyvinyl	50	01C8395	44.00
EXPP-K-20-1000	20	K	Polyvinyl	1000	24C8815	440.00

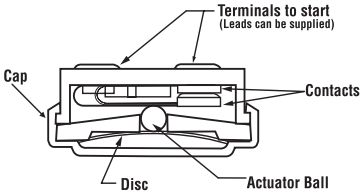
(147095)

5003 SERIES THERMAL SWITCHES

RoHS Compliant Available

AIRPAX

- Overall Depth: 0.250″ (Without Projecting Terminals)
- Contact Rating for 100,000 Life Cycles: 5A Resistive, 120VAC; 3A Resistive, 240VAC
- Temperature Settings: +35°F to +325°F



Thin, lightweight, water-type thermal switches, for use when space is at a premium. The basic switch assembly is operated by a bimetal disc with positive, reinforced snap-action. Excellent shock and vibration resistance. Dielectric: 1500Vrms, 60Hz, 1min. Terminals to case. Loads under 100mA. 5VDC will require gold-plated contacts, with recommended minimum load of 10mA, 5VDC. UL recognized to 130°C operating temperature. CSA certified to 168°C.

Mfg. Part No.	Operating Temp. Min. (°F)	Operating Temp. Max. (°F)	Stock No.	Price Each 1-9	10-24	25-49
CLOSE ON RISE CONTACT OPERATION						
C53GAB105A-090Y	90	105	34C8787	21.59	19.41	18.32
C53GAB115A-100Y	100	115	34C8788	21.59	19.41	18.32
C53GAB120A-105Y	105	120	34C8789	21.59	19.41	18.32
C53GAB175A-160Y	160	175	34C8790	21.59	19.41	18.32
C53GAB195A-180Y	180	195	34C8791	21.59	19.41	18.32
OPEN ON RISE CONTACT OPERATION						
053GAB120A-105Y	105	120	34C9058	21.59	19.41	18.32
053GAB140A-125Y	125	140	34C9059	21.59	19.41	18.32
053GAB165A-150Y	150	165	34C9060	21.59	19.41	18.32
053GAB175A-160Y	160	175	34C9061	21.59	19.41	18.32
053GAB195A-180Y	180	195	34C9062	21.59	19.41	18.32
053GAB210B-185Y	185	210	34C9063	21.59	19.41	18.32
053GAB250A-225Y	225	250	34C9064	21.59	19.41	18.32
053GAB265B-240Y	240	265	73C3788	21.59	19.41	18.32

(69343)

SNAP-ACTION DISC THERMOSTATS

RoHS Compliant Available

STANCOR

- Automatic Reset
- ¼″ Quick-Connect Terminals
- ½″ Bimetal Disc Thermostat
- Loose Ring
- Stainless Steel Mtg. Bracket
- Load Rating: 15A @ 120V, 10A @ 240V
- UL recognized, CSA certified, VDE approved #40012575
- 1.23″ L x 1.32″ Case W x 0.37″ H and 2 Holes .145″ Dia.

Positive, instantaneous opening or closing of electrical circuits. All have differential of 30°F, except **mfg. part no. STO-60**, which has a differential of 20°F and **STO-85 and STO-175**, which have a differential of 15°F.

Mfg. Part No.	Set Point	Function	Stock No.	Price Each 1-9	10-24	25-49
STO-60	60°F ±5°F	Opens	16M4628	5.64	5.08	4.70
STO-110	110°F ±5°F	Opens	16M4630	5.64	5.08	4.70
STO-120	120°F ±5°F	Opens	16M4631	5.64	5.08	4.70
STO-140	140°F ±5°F	Opens	16M4632	5.64	5.08	4.70
STO-150	150°F ±5°F	Opens	16M4633	5.64	5.08	4.70
STO-160	160°F ±5°F	Opens	16M4634	5.64	5.08	4.70
STO-170	170°F ±5°F	Opens	16M4635	5.64	5.08	4.70
STO-175	175°F ±5°F	Opens	16M4636	6.00	5.44	5.00
STO-190	190°F ±5°F	Opens	97F7515	5.74	5.18	4.77
STO-210	210°F ±6°F	Opens	16M4637	6.00	5.44	5.00
STC-100	100°F ±7°F	Closes	16M4626	5.74	5.18	4.77
STC-120	120°F ±7°F	Closes	46F6507	5.64	5.08	4.70
STC-140	140°F ±7°F	Closes	46F6509	5.64	5.08	4.70

(4004)

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(148830)

SENSORS – TILT • SENSORS – ULTRASONIC • SENSORS – VISION LIGHTING

SURFACE MOUNT TILT SENSOR

RoHS Compliant Available

OMRON ELECTRONIC COMPONENTS

- Detects tilting over range of 45 to 75 degrees in right and left inclination
- Gull wing surface mount terminals
- Wide operating temperature range: -10° to 60°C
- Lead-free contacts

Ideal for PDAs, cell phones and test equipment, digital cameras and video cameras to change aspect ratio automatically. Also replaces mercury switches in portable space heaters and game machines such as pinball games. Output current: ±1mA. Current consumption: 20µA max. Product is sold as tape on reel.

Mfg. Part No.	Operation Angle	Output Voltage (VDC)	Operating Voltage (VDC)	Stock No.	Price Each 1-24	Price Each 25-49
● D6B-2P	45° - 75°	0.5	2.7 - 3.3	21K6447	4.29	4.06

(83798)

WORLD-BEAM QS18U ULTRASONIC SENSORS

BANNER more sensors, more solutions

Features:
- Fast, easy-to-use TEACH-mode programming; no potentiometer adjustments
- Ultra-compact, rugged housing for harsh environments
- Two bi-colored LEDs
- Temperature compensation
- Fast response time: 15ms
- Supply protection: Protected against reverse polarity and transient voltages

Specification:
- Sensing range: 50 to 500mm (2″ to 20″)
- Supply voltage: 12 to 30Vdc
- Temperature range: -20°C to +60°C (-4°F to +140°F)
- Leakproof design rated IEC IP67, NEMA6P,or DIN40050 (depending on model)

Low cost, compact ultrasonic sensor for harsh environments in the versatile WORLD-BEAM standing housing. Ideal when the sensing target is made of clear or transparent materials, or the target surface varies.

ULTRASONIC SENSORS

Mfg. Part No.	TEACH Options	Cable Termination	Output	Stock No.	Price Each 1-9
QS18UNA	Integral pushbutton or remote TEACH	4-wire, shielded cable, 2m	NPN	69K7353	107.82
QS18UPA			PNP	69K7357	107.82
QS18UNAQ8		4-pin integral Euro-style QD	NPN	69K7356	107.82
QS18UPAQ8			PNP	69K7360	107.82
QS18UNAE	Remote TEACH	4-wire, shielded cable, 2m	NPN	69K7354	107.82
QS18UPAE			PNP	69K7358	107.82
QS18UNAEQ8		4-pin integral Euro-style QD	NPN	69K7355	107.82
QS18UPAEQ8			PNP	69K7359	107.82

QUICK DISCONNECT CABLES

Mfg. Part No.	Length	Description	Stock No.	Price Each 1-9
MQDEC2-406	2m	Straight, 4-pin Euro-style	34K8137	24.32
MQDEC2-406RA	2m	Right-angle, 4-pin Euro-style	34K8138	24.32
MQDEC2-415	5m	Straight, 4-pin Euro-style	34K8139	31.71
MQDEC2-415RA	5m	Right-angle, 4-pin Euro-style	34K8140	31.71

MOUNTING BRACKETS

Mfg. Part No.	Description	Stock No.	Price Each 1-9
SMB18UR	2-piece universal 18mm swivel bracket, stainless steel	21H8816	14.80
SMBQS18RA*	Right-angle bracket, stainless steel	35K0496	4.23
SMB18A	12-gauge, stainless steel right-angle bracket, clearance for M4 (#8) hardware	02H7579	3.18
SMB18SF	18mm swivel bracket, black thermoplastic polyester with stainless steel hardware	02H7580	7.40

* Integral QD models must mount to the "outside" to allow clearance

(87031)

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(148833)

S18U — 18mm BARREL ULTRASONIC SENSORS

Just Added

BANNER more sensors, more solutions

IP67

Straight Housing

Right Angle Housing

- Fast, easy-to-use TEACH-Mode programming; no potentiometer adjustments
- Short dead zone
- Two bi-colored status LEDs
- Rugged encapsulated design for harsh environments
- Wide operating range of -20°C to +60°C (-4°F to +140°F)
- Temperature compensation
- 10 to 30V dc operation

S18UB series is configurable for normally open or normally closed operation and has a fast response time (5 milliseconds). **S18UI** and **S18UU series** has a scalable output that automatically distributes the output signal over the width of the programmed sensing window and has selectable response times of 2.5 or 30 ms.

Mfg. Part No.	Connection	Output Type	Housing	Stock No.	Price Each
S18UBA	5-wire, 2 m (6.5') cable	NPN/PNP	Straight	99H2741	202.16
S18UBAQ	5-pin Euro-style QD	NPN/PNP	Straight	86H7371	202.16
S18UBAR	5-wire, 2 m (6.5') cable	NPN/PNP	Right Angle	99H2743	213.87
S18UBARQ	5-pin Euro-style QD	NPN/PNP	Right Angle	99H2745	213.87
S18UIA	5-wire, 2 m (6.5') cable	4 - 20mA	Straight	99H2746	258.56
S18UIAQ	5-pin Euro style QD	4 - 20mA	Straight	99H2748	258.56
S18UIAR	5-wire, 2 m (6.5') cable	4 - 20mA	Right Angle	99H2749	269.20
S18UIARQ	5-pin Euro style QD	4 - 20mA	Right Angle	99H2751	269.20
S18UUA	5-wire, 2 m (6.5') cable	0 - 10VDC	Straight	99H2752	258.56
S18UUAQ	5-pin Euro style QD	0 - 10VDC	Straight	99H2754	258.56
S18UUAR	5-wire, 2 m (6.5') cable	0 - 10VDC	Right Angle	99H2755	269.20
S18UUARQ	5-pin Euro style QD	0 - 10VDC	Right Angle	99H2757	269.20

(148723)

HIGH-INTENSITY (IP50) LINEAR ARRAY LIGHTS

BANNER more sensors, more solutions

Just Added

- High-power, solid-state LED array (290mm in length)
- 5-pin Euro-style (M12) male connection
- Continuous or strobed operation is selectable via hookup
- Optically isolated strobe signal
- Selectable Active High or Active Low strobe option
- Lens angle of 10°
- Black anodized aluminum housing w/ glass window

Mfg. Part No.	LED Color	Stock No.	Price Each
LEDILA290XG5-XQ	Infrared	10R5338	723.52
LEDRLA290XG5-XQ	Red	10R5340	723.52
LEDBLA290XG5-XQ	Blue	10R5334	723.52
LEDGLA290XG5-XQ	Green	10R5336	723.52
LEDWLA290XG5-XQ	White	10R5342	723.52

(148651)

HIGH-INTENSITY (IP68) AREA LIGHTS

Just Added

BANNER more sensors, more solutions

IP68

- Rugged, waterproof housing, rated IEC IP68
- Compact area light for PresencePLUS and other Vision systems
- Five extremely bright LEDs with adjustable intensity for illumination of targets from 0.15 meters to beyond 2 meters
- Smooth exterior for easy cleaning during washdown
- Optically isolated strobe signal
- Nickel-plated aluminum housing w/ glass window
- Selectable Active High or Active Low strobe option

➤ CONTINUED ➤

HIGH-INTENSITY (IP68) AREA LIGHTS (CONT.)

Mfg. Part No.	LED Color	Stock No.	Price Each
LEDIA70AG4-PQ	Infrared	10R5337	706.50
LEDRA70AG4-PQ	Red	10R5339	706.50
LEDBA70AG4-PQ	Blue	10R5333	706.50
LEDGA70AG4-PQ	Green	10R5335	706.50
LEDWA70AG4-PQ	White	10R5341	706.50

CABLE ASSEMBLIES

Mfg. Part No.	Connector Type A	Connector Type B	Length (m)	Stock No.	Price Each
MQDC20-515	Straight Female Euro-style (M12)	Flying Leads	5	10R5343	38.31

(148652)

IP67 SURFACE MOUNT LED SPIDER LIGHTS

Just Added

IDEC

Dome Type

Flat Type

Features:
- Screw mounting on panels surfaces, aluminum frames and walls
- Slim design well suited for installation in small space
- Excellent visibility from the front and side
- Legends and symbols can be printed on marking film for flat type
- Red/Green two-color alternate illumination available and 1m, 3m, and 5m cables available; *go online or call*

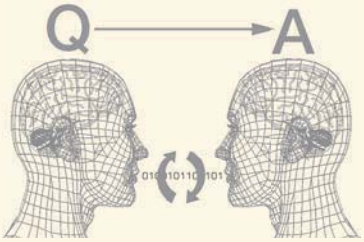
Specifications:
- Rated voltage 24VAC/DC
- Rated current: 17mA
- Max. current draw: 0.6W (25 mA)
- LED lamp life: 50,000 hours
- IP67 rated

Mfg. Part No.	Shape	Rated Voltage	Cable Length (m)	Color	Stock No.	Price Each 1-4
LH1D-D2HQ4C10-A	Dome	24VAC/DC	1	Amber	05R5518	63.00
LH1D-D2HQ4C10-G	Dome	24VAC/DC	1	Green	05R5519	63.00
LH1D-D2HQ4C10-PW	Dome	24VAC/DC	1	Cool White	05R5520	63.00
LH1D-D2HQ4C10-R	Dome	24VAC/DC	1	Red	05R5521	63.00
LH1D-D2HQ4C10-RG	Dome	24VAC/DC	1	Red/Green	05R5522	73.50
LH1D-D2HQ4C10-S	Dome	24VAC/DC	1	Blue	05R5523	63.00
LH1D-D2HQ4C10-W	Dome	24VAC/DC	1	Warm White	05R5524	63.00
LH1D-D2HQ4C10-Y	Dome	24VAC/DC	1	Yellow	05R5525	63.00
LH1D-H2HQ4C10-A	Flat	24VAC/DC	1	Amber	05R5526	68.25
LH1D-H2HQ4C10-G	Flat	24VAC/DC	1	Green	05R5527	68.25
LH1D-H2HQ4C10-PW	Flat	24VAC/DC	1	Cool White	05R5528	68.25
LH1D-H2HQ4C10-R	Flat	24VAC/DC	1	Red	05R5529	68.25
LH1D-H2HQ4C10-RG	Flat	24VAC/DC	1	Red/Green	05R5530	78.75
LH1D-H2HQ4C10-S	Flat	24VAC/DC	1	Blue	05R5531	68.25
LH1D-H2HQ4C10-W	Flat	24VAC/DC	1	Warm White	05R5532	68.25
LH1D-H2HQ4C10-Y	Flat	24VAC/DC	1	Yellow	05R5533	68.25

(147142)

Expert technical support

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



Make it easy. Make it fast. Make it Newark.

(148839)

LUMIFA LED LIGHTING

Just Added

IDEC

LF1A Series (IP40)

LF1A-D2F Series (IP67f)

LF1B Series (IP54)

LF9Z Mounting Brackets

- Energy saving: One-third of fluorescent lamps
- Long life: Five times more than fluorescent lamps
- Vibration and shock resistant
- Voltage rating: 24V DC

These environmentally-friendly light units pay for themselves, you recoup their cost with savings over time. Perfect for narrow areas, those not easily accessible or that are dangerous to access, these LEDs have a minimum lifespan of 40,000 hours. Once it's installed, customers won't have to worry about maintenance issues for a long time! Plus these LED light strips provide a bright light source while producing very little heat (even less than a fluorescent lamp).
IP40 degree of protection. IP67f protection water, dust and oil resistant. Stainless steel front bezel. Oil and heat resistant cable. IP54 degree of protection water and dust resistant.

LF1A SERIES (IP40)

Mfg. Part No.	Length (mm)	LEDs	Color	Power Rating (W)	Stock No.	Price Each
LF1A-A1-2THWW6	120	3 LEDs x 2 rows	Cool White	1.8	14P9703	400.00
LF1A-A1-2TLWW6	120	3 LEDs x 2 rows	Warm White	1.8	14P9704	700.00
LF1A-A1-2SHY8	120	3 LEDs x 2 rows	Yellow	2.2	14P9702	700.00
LF1A-A1-2SHR8	120	3 LEDs x 2 rows	Red	2.2	14P9701	700.00
LF1A-B1-2THWW6	180	6 LEDs x 2 rows	Cool White	3.6	14P9707	500.00
LF1A-B1-2TLWW6	180	6 LEDs x 2 rows	Warm White	3.6	14P9708	500.00
LF1A-B1-2SHY8	180	6 LEDs x 2 rows	Yellow	4.4	14P9706	500.00
LF1A-B1-2SHR8	180	6 LEDs x 2 rows	Red	4.4	14P9705	500.00
LF1A-D1-2THWW6	300	12 LEDs x 2 rows	Cool White	7.2	14P9711	700.00
LF1A-D1-2TLWW6	300	12 LEDs x 2 rows	Warm White	7.2	14P9712	700.00
LF1A-D1-2SHY8	300	12 LEDs x 2 rows	Yellow	8.7	14P9710	700.00
LF1A-D1-2SHR8	300	12 LEDs x 2 rows	Red	8.7	14P9709	700.00
LF1A-D2F SERIES (IP67F)						
LF1A-D2F-2THWW6	247	8 LEDs x 3 rows	White	7.2	14P9713	900.00
LF1B SERIES (IP654)						
LF1B-A3S-2THWW4	134	3 LEDs X 1 row	Transparent	0.8	14P9714	150.00
LF1B-A4S-2THWW4	134	3 LEDs X 1 row	White	0.8	14P9715	150.00
LF1B-B3S-2THWW4	210	6 LEDs X 1 row	Transparent	1.5	14P9716	200.00
LF1B-B4S-2THWW4	210	6 LEDs X 1 row	White	1.5	14P9717	200.00
LF1B-C3S-2THWW4	330	12 LEDs X 1 row	Transparent	2.9	14P9718	300.00
LF1B-C4S-2THWW4	330	12 LEDs X 1 row	White	2.9	14P9719	300.00
LF1B-D3S-2THWW4	580	24 LEDs X 1 row	Transparent	5.8	14P9720	500.00
LF1B-D4S-2THWW4	580	24 LEDs X 1 row	White	5.8	14P9721	500.00

LF SERIES MOUNTING ACCESSORIES
Mounting angle can be adjusted from 0 degree to 90 degrees, at an interval of 10 degrees, thus providing increased mounting flexibility.

Mfg. Part No.	For Use With	Stock No.	Price Each
LF9Z-1MA1	LF1A Series	14P9723	60.00
LF9Z-1MAD1	LF1A-D2F Series	14P9722	70.00
LF9Z-1MB1	LF1B Series	14P9724	50.00

(136209)

SENSORS – VISION LIGHTING • SENSORS – CABLE ASSEMBLIES

SUPER BRIGHT LED LIGHT BAR

RoHS Compliant Available

PATLITE

CLB Series

CLM Series

The CLB-24N LED Bar Light provides longer life LED lighting with lower power consumption and less heat generation than conventional fluorescent lamps. The CLF Series is an LED work light that comes in various lengths. The CLM-24 super bright LED work light is resistant to weather, dust, oil and water.

CLM Series

CLB SERIES LED WORKLIGHTS

Mfg. Part No.	Color	Voltage	Length	Stock No.	Price Each 1-4
● CLB-24N1-C	White	24 VDC	100	08N3401	192.98
● CLB-24N1-R	Red	24 VDC	100	08N3402	153.36
● CLB-24N1-Y	Yellow	24 VDC	100	08N3403	153.36
● CLB-24N2-C	White	24 VDC	200	08N3404	238.99
● CLB-24N2-R	Red	24 VDC	200	08N3405	207.04
● CLB-24N2-Y	Yellow	24 VDC	200	08N3406	207.04
● CLB-24N-C	White	24 VDC	332	08N3398	153.36
● CLB-24N-R	Red	24 VDC	332	08N3399	249.21
● CLB-24N-Y	Yellow	24 VDC	332	08N3400	249.21
CLF SERIES LED WORKLIGHTS					
● CLF10-24-C	White	24V AC/DC	100	08N3407	264.55
● CLF10-24-R	Red	24V AC/DC	100	08N3408	251.77
● CLF10-24-Y	Yellow	24V AC/DC	100	08N3409	256.88
● CLF20-24-C	White	24V AC/DC	200	08N3410	413.97
● CLF20-24-R	Red	24V AC/DC	200	08N3411	359.12
● CLF20-24-Y	Yellow	24V AC/DC	200	08N3412	398.74

CLB SERIES LED WORKLIGHTS

Mfg. Part No.	Color	Voltage	Diameter	Stock No.	Price Each 1-4
● CLM-24	White	24 VDC	85	08N3413	318.44

(115574)

SINGLE KEYWAY MICRO-CHANGE® MOLDED AND ATTACHABLE CONNECTORS

RoHS Compliant Available

Woodhead A Division of molex

BRADHARRISON From Daniel Woodhead Company

Straight Male Receptacle

Straight Female Receptacle

Single-Ended Cordsets

Field Attachable

- Current Rating, 4A
- Designed for 12mm and 18mm sensor applications
- Field attachable
- IP68; NEMA 6 watertight rating

Used with 12 and 18mm tubular proximity sensors, tubular photoelectric sensors, and modular controls. Mechanically-keyed mating parts eliminate mismating. Diameter, 0.57″ and length, 1.84″. Rated 4A, 300V. Oil-resistant, PVC jacketed cable. UL listed, CSA certified. Meets NEMA enclosure Type 6 and IEC enclosure IP68.

SINGLE KEYWAY CONNECTORS (DC) CORDSETS WITH MOLDED CONNECTOR AND PIGTAIL

Mfg. Part No.	Connector	Poles	Cable Length	Stock No.	Price Each
● 803000A09M050	Female-Straight	3	16.40′	15M4874	21.99
● 803001A09M050	Female-90°	3	16.40′	15M4875	21.99
● 804006A09M050	Male-Straight	4	16.40′	15M4877	21.82
● 804000A09M050	Female-Straight	4	16.40′	96F4295	21.82
● 804001A09M050	Female-90°	4	16.40′	15M4876	21.82

➤ CONTINUED ➤

SINGLE KEYWAY MICRO-CHANGE® MOLDED AND ATTACHABLE CONNECTORS (CONT.)

Mfg. Part No.	Connector	Poles	Cable Length	Stock No.	Price Each
● 805006A09M050	Male-Straight	5	16.40′	14B2876	29.29
● 805000A09M050	Female-Straight	5	16.40′	31M6787	33.19
● 805001A09M050	Female-90°	5	16.40′	31M6788	33.19

STRAIGHT RECEPTACLES WITH 12″ WIRE LEADS

Mfg. Part No.	Connector	Poles	Cable Length	Stock No.	Price Each
● 8R3006A18A120	Male	3	…	14B2707	13.81
● 8R3A00A18A120	Female	3	…	15M4868	15.82
● 8R4006A18A120	Male	4	…	15M4870	16.54
● 8R4A00A18A120	Female	4	…	15M4869	18.41
● 8R5006A18A120	Male	5	…	15M4872	18.94
● 8R5A00A18A120	Female	5	…	15M4871	21.01

ATTACHABLE CONNECTORS

Route cable through tight places where molded-on connectors won't fit. Replace damaged molded connectors quickly. Micro Change® enables quick-disconnect wiring on specialty cable and pre-wired control system devices. Current rating: 4A. Meets IEC enclosure IP68 classification. Field wireable with a screwdriver.

Mfg. Part No.	Connector	Poles	Cable Fitting	Stock No.	Price Each
● 8A4006-32	Male	4	PG9	15M4864	23.65
● 8A4000-32	Female	4	PG9	31M6776	23.65
● 8A4007-31	Male (90°)	4	PG7	31M6777	23.65
● 8A4001-31	Female (90°)	4	PG7	15M4863	23.65
● 8A5006-31	Male	5	PG7	15M4866	25.59
● 8A5000-31	Female	5	PG7	15M4865	25.59
● 8A5007-31	Male (90°)	5	PG7	15M4867	25.59
● 8A5001-31	Female (90°)	5	PG7	83F1938	25.59

(2958)

NANO-CHANGE® CONNECTORS

BRADHARRISON From Daniel Woodhead Company

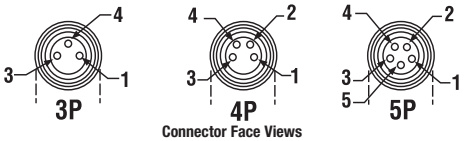
Woodhead A Division of molex

RoHS Compliant Available

Molded Straight Male

Field Attachable Straight Female

- 4 AMPS at 60VAC/75VDC
- Standard M8 sensor connector
- Connector dimensions (inches): Molded Straight Male .39D x 1.46L, Field Attachable Straight Female .457D x 1.772



Connector Face Views

Smallest family of multipin connectors designed for fast, error-free wiring in all types of industrial settings. Threaded couplings meet NEMA 6 & IP67 ratings for water resistance. Cordsets are 12′ long and have a molded connector on one end and stripped wire leads on the other. Receptacles mount in a ½″ knockout and have 12″ stripped wire leads. Field attachable connectors have solder terminals and are used to repair cordsets in the field. 90° versions are available; *go online or call.*

CORDSETS WITH MOLDED CONNECTOR AND PIGTAIL

Mfg. Part No.	Description	Poles	Stock No.	Price Each Each	Price Each 2-4
● 403006A10M040	Male, Straight	3	31M6592	17.83	17.19
● 403000A10M040	Female, Straight	3	14B1384	17.83	17.19
● 404006A10M040	Male, Straight	4	31M6593	21.54	20.76
● 404000A10M040	Female, Straight	4	32M1451	21.54	20.76
● 405006A10M040	Male, Straight	5	15M2441	27.36	26.37
● 405000A10M040	Female, Straight	5	15M2440	27.36	26.37
RECEPTACLES WITH 12″ WIRE LEADS					
● 4R3P06A27C300	Male	3	53M5081	10.27	9.90
● 4R3P00A27C300	Female	3	53M5080	13.41	12.93
● 4R4P06A27C300	Male	4	53M5082	11.24	10.83
● 4R4P00A27C300	Female	4	14B1367	14.30	13.79
● 4R5P06A27C300	Male	5	53M5084	12.40	11.95
● 4R5P00A27C300	Female	5	53M5083	15.47	14.91
FIELD ATTACHABLE CONNECTORS					
● N04FA03124	Female, Straight	4	14B952	28.17	27.16
● N04MA03124	Male, Straight	4	31M5736	28.17	27.16

(62180)

MINI-CHANGE® MOLDED CONNECTORS

RoHS Compliant Available

Woodhead A Division of molex

BRADHARRISON From Daniel Woodhead Company

MINI-CHANGE MOLDED CONNECTORS

MINI-CHANGE MOLDED CONNECTORS

- Current rating, 8A-13A
- Connector size (inches): Straight Female Plug .56D x 4.46L, 90° Female Plug .56D x 3.53L x 1.56W, Straight Male Plug .70D x 4.50L and 90° Male Plug .70D x 3.53L x 1.60W
- For 12mm and 18mm proximity sensors

Used with: 18mm and 30mm tubular proximity sensors, limit switches, rectangular proximity and photoelectric sensors, and solenoids. Applications include: sensors on conveyors, hydraulic valves, packing equipment, and material handling equipment. Quad-Beam® contact maintains constant pressure on the male pin to ensure optimum conductivity. High-performance, long-lasting gold over palladium-nickel plating on contact. An epoxy-coated coupling nut provides up to 500 hours of corrosion resistance and an anti-vibration guard. Plugs are straight or 90° and can be lighted. Rated 7-13A, 600V. Rated NEMA 6P. UL recognized, CSA certified.

CORDSET WITH MOLDED CONNECTOR AND PIGTAIL
6' CABLE LENGTH

Mfg. Part No.	Current Rating	Connector Type	Poles	Stock No.	Price Each
103002A01F060	13A	Male	3	18C1945	23.42
103000A01F060	13A	Female	3	15M1984	23.42
103001A01F060	13A	Female-90°	3	15M1985	23.42
104002A01F060	10A	Male	4	31M6367	30.29
104000A01F060	13A	Female	4	31M6364	30.29
104001A01F060	13A	Female-90°	4	31M6366	30.29
105002A01F060	8A	Male	5	18C1949	36.73
105000A01F060	8A	Female	5	18C3206	36.73
105001A01F060	8A	Female-90°	5	15M1988	36.73
208000A01F060	7A	Female	8	15M1997	74.15
15' CABLE LENGTH					
103002A01F150	13A	Male	3	18C1946	34.21
103000A01F150	13A	Female	3	18C3200	34.21
103001A01F150	13A	Female-90°	3	18C3202	34.21
104002A01F150	10A	Male	4	31M6368	44.41
104000A01F150	10A	Female	4	31M6365	44.41
105002A01F150	8A	Male	5	18C1950	56.40
105000A01F150	8A	Female	5	18C3207	56.40
105001A01F150	8A	Female-90°	5	15M1989	56.40

RECEPTACLE WITH 12' WIRE LENGTHS

Mfg. Part No.	Current Rating	Receptacle Type	Poles	Stock No.	Price Each
1R3006A20A120	13A	Male-Straight	3	15M1980	14.30
1R3007A20A120	13A	Male-90°	3	18C3192	18.47
1R3004A20A120	13A	Female	3	15M1979	19.48
1R4006A20A120	10A	Male-Straight	4	15M1981	16.38
1R4007A20A120	10A	Male-90°	4	18C3195	20.57
1R4004A20A120	10A	Female	4	18C1943	21.11
1R5006A20A120	8A	Male-Straight	5	18C3197	18.47
1R5007A20A120	8A	Male-90°	5	15M1983	22.64
1R5004A20A120	8A	Female	5	15M1982	23.07
2R8006A20A120	7A	Male	8	15M1996	41.05

(2956)

Huge Expanded Selection of Semiconductors

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

(148843)

DUAL KEYWAY MICRO-CHANGE® MOLDED CONNECTORS

BRADHARRISON From Daniel Woodhead Company

Woodhead A Division of molex

RoHS Compliant Available

- Current Rating, 4A
- Designed for 12mm and 18mm sensor applications
- IP68; NEMA 6P water-tight rating

Used with 12 and 18mm tubular proximity sensors, tubular photoelectric sensors, and modular controls. Mechanically-keyed mating parts eliminate mismating. Diameter, 0.57″ and length, 1.84″. Rated 4A, 300V. Oil-resistant, PVC jacketed cable. UL listed, CSA certified. Meets NEMA enclosure Type 6 and IEC enclosure IP68.

DUAL KEYWAY CONNECTORS (AC) CORDSETS WITH MOLDED CONNECTOR AND PIGTAIL

Mfg. Part No.	Connector	Poles	Cable Length	Stock No.	Price Each
702006D02F060	Male-Straight	2	6.00′	39C1969	19.81
702000D02F120	Female-Straight	2	12.00′	53M5334	26.27
703006D02F060	Male-Straight	3	6.00′	15M4349	21.18
703000D02F120	Female-Straight	3	12.00′	96F4277	29.63
703001D02F120	Female- 90°	3	12.00′	96F4279	29.63
704006D02F120	Male-Straight	4	12.00′	53M5336	35.75
704000D02F120	Female-Straight	4	12.00′	53M5335	36.37
705000D02F120	Female-Straight	5	12.00′	14B2617	46.19

STRAIGHT RECEPTACLES WITH 12″ WIRE LEADS

Mfg. Part No.	Connector	Poles	Cable Length	Stock No.	Price Each
7R2A00A19A120	Female	2	…	15M4343	14.70
7R3006A19A120	Male	3	…	14B2400	12.67
7R3A00A19A120	Female	3	…	15M4344	14.95
7R5006A19A120	Male	5	…	17M8459	16.54

(80420)

WATERPROOF SENSOR I/O CONNECTORS & CABLE ASSEMBLIES

Just Added

OMRON ELECTRONIC COMPONENTS

Connectors & Cordsets

Y-Joint

Junction Boxes

- A newly developed lock structure that maintains compatibility with conventional, screw-type M12 connectors
- Simply insert the Connectors, then turn them approximately ⅛ of a turn to lock
- A positive click indicates locking
- Features the same degree of protection (IP67) as conventional, screw-type M12 connectors
- Connector with cable are UL approved

PANEL MOUNT CONNECTORS WITH 0.5m PIGTAILS

Mfg. Part No.	Connector	Mounting	Stock No.	Price Each 1-9
XS5MD4265	Plug	Front Panel Mount	08R3675	18.84
XS5MD4275	Plug	Rear Panel Mount	08R3676	20.03
XS5PD4265	Receptacle	Front Panel Mount	08R3677	19.93
XS5PD4275	Receptacle	Rear Panel Mount	08R3678	19.93

SINGLE ENDED RECEPTACLE CORDSETS

Mfg. Part No.	Cable Length (m)	Stock No.	Price Each 1-24
XS5FD421D80A	2	08R3673	20.25
XS5FD421G80A	5	08R3674	19.96
BOUBLE ENDED PLUG TO RECEPTACLE CORDSETS			
XS5WD421D81A	2	08R3680	28.80
XS5WD421G81A	5	08R3681	25.65

➤ CONTINUED ➤

SENSORS – CABLE ASSEMBLIES

WATERPROOF SENSOR I/O CONNECTORS & CABLE ASSEMBLIES (CONT.)

Y-JOINT

Mfg. Part No.	Description	Stock No.	Price Each 1-9
XS5RD4261	2 Receptacles to 1 Plug	08R3679	67.40

JUNCTION BOXES

Mfg. Part No.	No. of Ports	No. of I/O	Sensor Type	Stock No.	Price Each 1-24
XW3DP455G11	4	4	3-Wire DC NPN/2-Wire DC	08R3682	258.41
XW3DP853G11	8	8	3-Wire DC PNP/2-Wire DC	08R3683	390.88

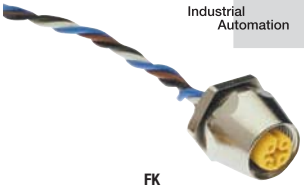
(147850)

M12 EUROFAST RECEPTACLES

RoHS Compliant Available

TURCK works. Industrial Automation

FS



FK

- Male or female receptacle
- NEMA 1,3, 4, 6P and IEC IP68 protection

- 4-wire or 8-wire termination
- Current rating: 4A (4-wire); 2A (8-wire)

MALE

Mfg. Part No.	Mount	Application	Length (m)	Stock No.	Price Each 1-9
● FS 4-0.5	Front	Mate with 3-wire Cordset	0.5	99M0758	11.20
● FS 4.4-0.3	Front	Mate with 4-wire Cordset	0.3	41M3248	10.89
● FS 4.4-0.5	Front	Mate with 4-wire Cordset	0.5	66M8074	10.89
● FS 4.5-0.5	Front	Mate with 5-wire Cordset	0.5	99M0757	12.61
● FS 8-0.5	Front	Mate with 8-wire Cordset	0.5	41M3249	16.33
● FS 10-0.5	Front	Mate with 10-wire Cordset	0.5	99M0755	17.74
● FS 12-0.5	Front	Mate with 12-wire Cordset	0.5	99M0756	19.95
● FSFD 4.4-0.5	Rear	Mate with 4-wire Cordset	0.5	41M3254	16.97
● FSFD 4.5-0.5	Rear	Mate with 5-wire Cordset	0.5	54M9958	17.77
● FSFD 8-0.5	Rear	Mate with 8-wire Cordset	0.5	41M3258	20.06
● FSFD 10-0.5	Rear	Mate with 10-wire Cordset	0.5	99M0759	22.48
● FSFD 12-0.5	Rear	Mate with 12-wire Cordset	0.5	99M0760	23.18
FEMALE					
● FK 4-0.5	Front	Mate with 3-wire Cordset	0.5	99M0752	11.02
● FK 4.4-0.3	Front	Mate with 4-wire Cordset	0.3	41M3230	10.89
● FK 4.4-0.5	Front	Mate with 4-wire Cordset	0.5	66M8049	10.89
● FK 4.5-0.5	Front	Mate with 5-wire Cordset	0.5	99M0751	12.61
● FK 8-0.5	Front	Mate with 8-wire Cordset	0.5	41M3231	15.52
● FK 10-0.5	Front	Mate with 10-wire Cordset	0.5	99M0749	17.74
● FK 12-0.5	Front	Mate with 12-wire Cordset	0.5	99M0750	19.95
● FKFD 4.4-0.5	Rear	Mate with 4-wire Cordset	0.5	41M3236	17.13
● FKFD 4.5-0.5	Rear	Mate with 5-wire Cordset	0.5	99M0754	17.84
● FKFD 8-0.5	Rear	Mate with 8-wire Cordset	0.5	41M3240	20.06
● FKFD 10-0.5	Rear	Mate with 10-wire Cordset	0.5	99M0753	20.96
● FKFD 12-0.5	Rear	Mate with 12-wire Cordset	0.5	64M5008	24.99

(93071)

New products added weekly

See the newest products, technologies and suppliers on our website.

(148888)

FIELD WIREABLE CONNECTORS

RoHS Compliant Available

TURCK works. Industrial Automation

Minifast

Picofast

Eurofast

- Field wireable
- Standard keyway

- Straight housing style
- Eurofast series offers IEC IP 67 protection

MALE

Mfg. Part No.	No. of Pins	Series	Cable Range	Stock No.	Price Each 1-9
● BS 4131-0/9	3	Minifast	6-8 mm	41M2264	30.22
● BS 4151-0/9	5	Minifast	6-8 mm	41M2265	33.51
● BS 5131-0	3	Picofast	3-5 mm	41M2266	19.96
● BS 5141-0	4	Picofast	3-5 mm	41M2267	19.96
BS 8141-0/LABEL*	4	Eurofast	4-6 mm	99M0746	21.70
● BS 8141-0/PG9	4	Eurofast	4-8 mm	41M2268	18.79
● BS 8141-0/PG9/LABEL*	4	Eurofast	6-8 mm	99M0747	21.70
● BS 8151-0/PG9	5	Eurofast	6-8 mm	55M3352	24.80
● BS 8151-0/PG9/LABEL*	5	Eurofast	4-8 mm	99M0748	27.70
FEMALE					
● B 4131-0/9	3	Minifast	6-8 mm	41M2013	30.22
● B 4151-0/9	5	Minifast	6-8 mm	41M2014	33.51
● B 5131-0	3	Picofast	3-5 mm	41M2015	19.96
● B 5141-0	4	Picofast	3-5 mm	41M2016	19.96
● B 8141-0	4	Eurofast	4-8 mm	99M0742	18.79
● B 8141-0/LABEL*	4	Eurofast	4-6 mm	99M0743	21.70
● B 8141-0/PG9	4	Eurofast	4-8 mm	41M2017	18.79
● B 8141-0/PG9/LABEL*	4	Eurofast	6-8 mm	99M0744	21.70
B 8151-0/PG9/LABEL*.	5	Eurofast	4-8 mm	99M0745	27.70

(93072)

MULTIBOX® EUROFAST® LOW PROFILE JUNCTION BOXES

RoHS Compliant Available

TURCK works. Industrial Automation

4-port

8-port

Features:
- Dual output per port
- Rugged plastic housing
- Available with or without LEDs
- M23 quick disconnect or integral cable
- Threaded M12 connection
- PNP LED

Specifications:
- 2A/port, 10A total
- Yellow PVC cable or 19-pin multifast® connector
- 3/18AWG, 8/22AWG
- Foil shield and 20AWG drain
- 2 signals per port
- Mates with CKM 19-11-* cordsets (4 port) or CKM 19-19-* multifast® cordsets (8 port)

Mfg. Part No.	Ports	Termination	Cable Length (m)	Stock No.	Price Each
● 4MB12Z-5P3-CS19	4	Multifast Connector	...	41M6587	121.10
4MB12Z-5P3-5	4	Integral Cable	5	41M6588	134.90
● 8MB12Z-5P3-CS19	8	Multifast Connector	...	41M6696	163.22
8MB12Z-5P3-5	8	Integral Cable	5	41M6697	175.86

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