

DC - 2 WIRE SENSORS
Brass, Nickel Plated (BN),
Cylindrical, Threaded,
M12 – 5-30V DC, 100mA
M18, M30 – 10-55V DC, 200 mA
1 LED for Output Energized

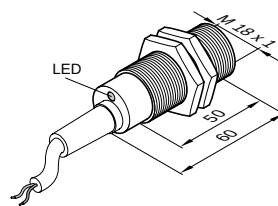
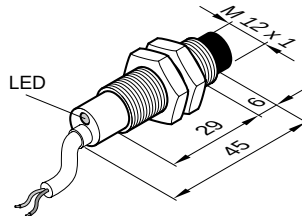
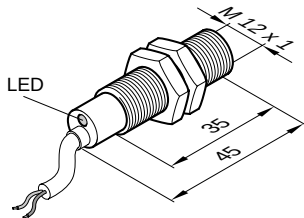
- **2 Wire devices reduce wiring requirements**
- **Economically Priced**
- **Carries C mark**

- IEC(529) IP67 (NEMA 1, 3, 4, 6, 12, 13) Protection
- Reverse Polarity Protection
- Temperature Range: -25 to 70°C (-13 to 158°F)

	M12 Flush Mount		M12 Non-Flush Mount		M18 Flush Mount
Sensing distance	2mm (.08 in.)		4mm (.16 in.)		5mm (0.2 in.)
Cable or Connector Style Cat. No.	Cable	65	Cable	65	Cable
Normally Open 	9962-5600	9962-5665	9962-5700	9962-5765	9964-5400
Normally Closed 					
Ripple Voltage	≤10%	≤10%	≤10%	≤10%	≤10%
Voltage Range	5V-30V	5V-30V	5V-30V	5V-30V	10V-55V
Supply Current	≤3mA	≤3mA	≤3mA	≤3mA	≤5mA
Max. Load Current	100mA	100mA	100mA	100mA	200mA
Voltage Drop Across Sensor	≤5V	≤5V	≤5V	≤5V	≤6.5V
Max. Leakage Current	≤0.5mA	≤0.5mA	≤0.5mA	≤0.5mA	≤1.5mA
Switching Frequency	500Hz	500Hz	500Hz	500Hz	1000Hz
Hysteresis	≤15%	≤15%	≤15%	≤15%	≤15%
Temperature Drift	≤10%	≤10%	≤10%	≤10%	≤10%
Repeatability	.20mm (.008 in.)	.20mm (.008 in.)	.40mm (.016 in.)	.40mm (.016 in.)	.40mm (.016 in.)
Front Cap Material	PBTP	PBTP	PBTP	PBTP	PBTP

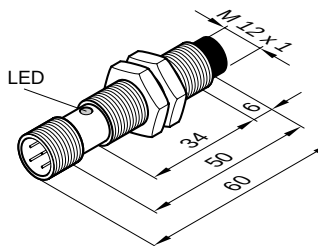
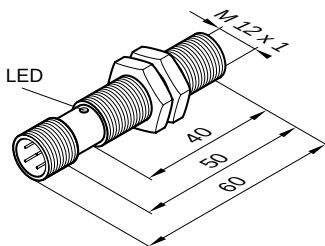
Fixed Cable

PVC 2m (6ft. 6in.). For 5m (16 ft. 5 in.) cable length, change the last two digits of the part number to 02. For other cable lengths and/or PUR cable, please consult Altech. Supplied with Brass, Nickel Plated (BN) locknuts.



65 Style Connector

4-pin, Micro style, 12mm (.47 in.) supplied with Brass, Nickel Plated (BN) locknuts.



Metric/in. Conversion Table

1.5 mm = .06 in.	23.0 mm = .08 in.
2.0 mm = .08 in.	28.0 mm = 1.10 in.
4.0 mm = .16 in.	30.0 mm = 1.18 in.
5.0 mm = .20 in.	32.0 mm = 1.26 in.
6.0 mm = .23 in.	34.0 mm = 1.34 in.
8.0 mm = .31 in.	40.0 mm = 1.57 in.
10.0 mm = .39 in.	50.0 mm = 1.97 in.
12.0 mm = .47 in.	51.0 mm = 2.01 in.
15.0 mm = .59 in.	60.0 mm = 2.36 in.
18.0 mm = .70 in.	80.0 mm = 3.12 in.

This table converts millimeters to inches in reference to the illustrations included on these pages

Accessories

2 meter (6 ft. 6 in.) DC Cable Assemblies for Quick Disconnect Sensors

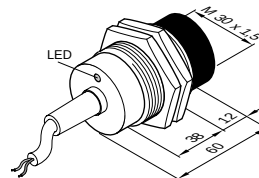
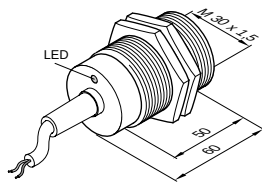
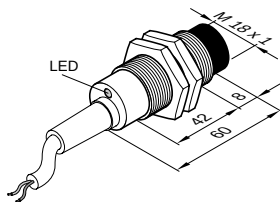
65 Connector 8000-5110 PVC, Straight
65 Connector 8000-5120 PVC, Right Angle

Change last digit of connector number to 5 for 5 meter cable

Refer to pages 116-121 for more cable information

Mounting Brackets – see Pages 114-115

M18 Non-Flush Mount 8mm (.31 in.)	M30 Flush Mount 10mm (.39 in.)	M30 Non-Flush Mount 15mm (.59 in.)
Cable	Cable	Cable
9964-5500	9966-5400	9966-5500
≤10%	≤10%	≤10%
10V-55V	10V-55V	10V-55V
≤5mA	≤5mA	≤5mA
200mA	200mA	200mA
≤6.5V	≤6.5V	≤6.5V
≤1.5mA	≤1.5mA	≤1.5mA
500Hz	500Hz	300Hz
≤15%	≤15%	≤15%
≤10%	≤10%	≤10%
.80mm (.03 in.)	1mm (.039 in.)	1.5mm (.059 in.)
PBTP	PBTP	PBTP
Note: Sensor dimensions in mm.		



Wiring Diagrams

Note: Wire colors are applicable to cable purchased from Altech

