

**DC - 4 WIRE – COMPLEMENTARY
OUTPUTS (N.O. & N.C.)**
**Brass, Nickel Plated (BN),
Cylindrical, Threaded,
10-30V DC, 200mA**
1 LED for Output Energized

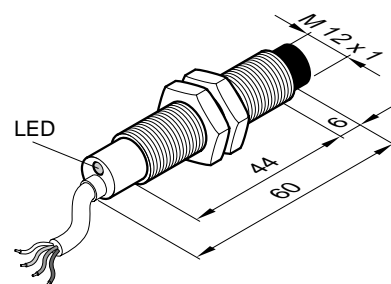
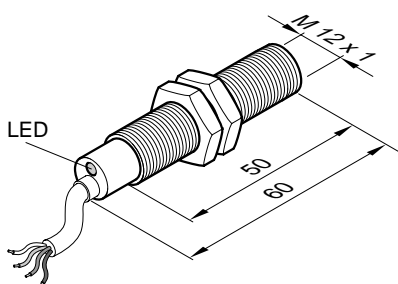
• Carries  mark

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

M12 Flush Mount			M12 Non-Flush Mount	
Sensing Distance	2mm (.08 in.)		4mm (.16 in.)	
Cable or Connector Style Cat. No.	Cable	65	Cable	65
PNP (Complementary NO/NC)	9962-6200	9962-6265	9962-6300	9962-6365
NPN (Complementary NO/NC)				
Ripple Voltage	≤10%	≤10%	≤10%	≤10%
Voltage Range	10V-30V	10V - 30V	10V - 30V	10V - 30V
Supply Current	≤15 mA	≤15 mA	≤15 mA	≤15 mA
Max. Load Current	200 mA	200 mA	200 mA	200 mA
Voltage Drop Across Sensor	≤2.4V	≤2.4V	≤2.4V	≤2.4V
Max. Leakage Current	≤10 µA	≤10 µA	≤10 µA	≤10 µA
Switching Frequency	2000 Hz	2000 Hz	1000 Hz	1000 Hz
Hysteresis	≤15%	≤15%	≤15%	≤15%
Temperature Drift	≤10%	≤10%	≤10%	≤10%
Repeatability	.20mm (.008 in.)	.20mm (.008 in.)	.40mm (.016 in.)	.40mm (.016 in.)
Front Cap Material	PBTP	PBTP	PBTB	PBTB

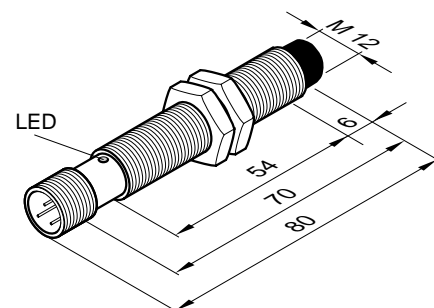
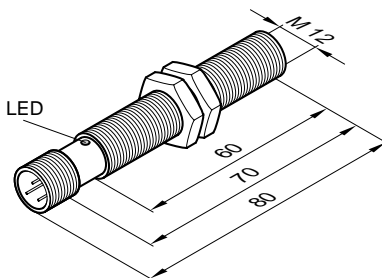
Fixed Cable

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

1.0 mm = .04 in.	44.0 mm = 1.73 in.
6.0 mm = .23 in.	50.0 mm = 1.96 in.
8.0 mm = .31 in.	51.0 mm = 2.0 in.
10.0 mm = .39 in.	54.0 mm = 2.12 in.
12.0 mm = .47 in.	60.0 mm = 2.36 in.
18.0 mm = .70 in.	70.0 mm = 2.75 in.
32.0 mm = 1.26 in.	80.0 mm = 3.12 in.
42.0 mm = 1.65 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 Connectors, 4PIN – 4 Wire cable (PIN 1, 2, 3, 4) :
65 Connectors 8000-5280 PVC, Right Angle

Change last digit of connector number for 5 meter cable

Refer to pages 116-121 for more cable information

Mounting Brackets – see Pages 114-115

M18 Flush Mount

5mm (.2 in.)

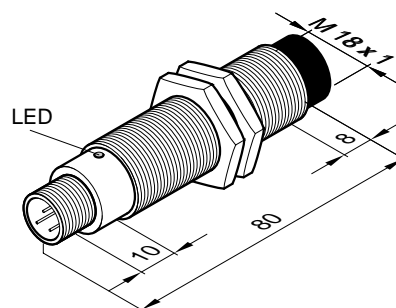
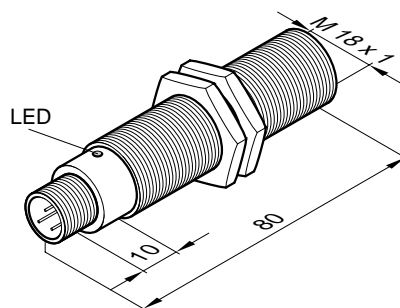
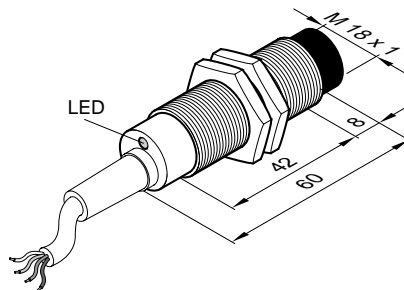
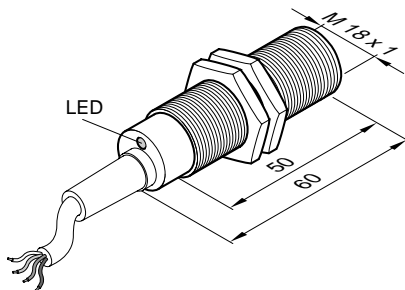
Cable	65
9964-6200	9964-6265
≤10%	≤10%
10V - 30V	10V - 30V
≤15 mA	≤15 mA
200 mA	200 mA
≤2.4V	≤2.4V
10 μA	10 μA
1000 Hz	1000 Hz
≤15%	≤15%
≤10%	≤10%
.5mm (.02 in.)	.5mm (.02 in.)
PBTB	PBTB

M18 Non-Flush Mount

8mm (.31 in.)

Cable	65
9964-6300	9964-6365
≤10%	≤10%
10V - 30V	10V - 30V
≤15 mA	≤15 mA
200 mA	200 mA
≤2.4V	≤2.4 V
10μA	10μA
500 Hz	500 Hz
≤15%	≤15%
≤10%	≤10%
.8mm (.031 in.)	.8mm (.031 in.)
PBTB	PBTB

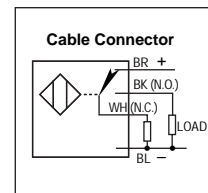
Note: Sensor dimensions in mm.



Wiring Diagrams

Note: Wire colors are applicable to cable purchased from Altech

PNP



PNP

