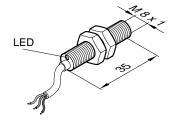
DC - 3 WIRE - L SERIES
Brass, Nickel Plated (BN),
Cylindrical, Threaded,
M8 - 10-30V DC, 200mA
M12-M30 - 18-30V DC, 120mA
1 LED for Output Energized

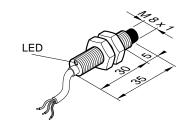
- Short Body Sensors
- Economically priced
- Connector options
- Carries ( € mark
- IEC (529)IP67 (NEMA 1, 3, 4, 6, 12, 13) Protection
- Short Circuit Protection
- Overload Protection
- Reverse Polarity Protection
- · Wire Break Resistance
- Temperature Range: -25 to 70°C (-13 to 158°F)

	M8 Flush Mount			M8 Non-Flush Mount		
Sensing Distance	1.5mm (.06 in.)			2mm (.08 in.)		
Cable or Connector Style Cat. No.	Cable	64	65	Cable	64	65
PNP Normally Open Normally Closed	9981-2000	9981-2064	9981-2065	9981-2200	9981-2264	9981-2265
NPN Normally Open Normally Closed	9981-2100	9981-2164	9981-2165	9981-2300	9981-2364	9981-2365
Ripple Voltage	≤10%	≤10%	≤10%	≤10%	≤10%	≤10%
Voltage Range	10V - 30V	10V - 30V	10V - 30V	10V - 30V	10V - 30V	10V - 30V
Supply Current	≤10 mA	≤10 mA	≤10 mA	≤10 mA	≤10 mA	≤10 mA
Max. Load Current	200 mA	200 mA	200 mA	200 mA	200 mA	200 mA
Voltage Drop Across Sensor	≤2.4V	≤2.4V	≤2.4V	≤2.4V	≤2.4V	≤2.4V
Max. Leakage Current	≤10 µA	≤10 µA	≤10 μA	≤10 µA	≤10 µA	≤10 µA
Switching Frequency	2000Hz	2000Hz	2000Hz	2000Hz	2000Hz	2000Hz
Hysterisis	≤15%	≤15%	≤15%	≤15%	≤15%	≤15%
Temperature Drift	≤10%	≤10%	≤10%	≤10%	≤10%	≤10%
Repeatability	.15mm (.006 in.)	.15mm (.006 in.)	.15mm (.006 in.)	.20mm (.008 in.)	.20mm (.008 in.)	.20mm (.008 in.)
Front Cap Material	PBTP	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. Non-metallic locknuts for M8 and Brass, Nickel Plated (BN) locknuts for M12 through M30.





### **64 Style Connector**

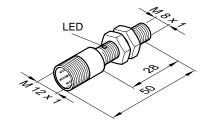
3-pin, Pico style, 8mm (.31 in.) supplied with non-metallic locknuts for M8 and Brass, Nickel Plated (BN) locknuts for M12 through M30.

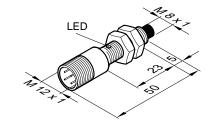




# **65 Style Connector**

4-pin, Micro style, 12mm (.47 in.) supplied with non-metallic locknuts for M8 and Brass, Nickel Plated (BN) locknuts for M12 through M30.







### Metric/in. Conversion Table

1.0 mm = .04 in.	30.0 mm =	1.18 in.
5.0  mm = .20  in.	34.0  mm =	1.34 in.
6.0  mm = .23  in.	35.0 mm =	1.37 in.
8.0  mm = .31  in.	39.0  mm =	1.53 in.
12.0  mm = .47  in.	40.0 mm =	1.57 in.
23.0  mm = .91  in.	50.0  mm =	1.96.in.
24.0  mm = .94  in.		
28.0 mm =1.10 in.		
29.0 mm =1.14 in.		

M12 Flush Mount 2mm (.08 in.)			M12 Non-Flush Mount 4mm (.16 in.)			
	Cable	64	65	Cable	64	65
	9982-2000	9982-2064	9982-2065	9982-2200	9982-2264	9982-2265
	9982-2100	9982-2164	9982-2165	9982-2300	9982-2364	9982-2365
	≤10%	≤10%	≤10%	≤10%	≤10%	≤10%
	18V - 30V	18V - 30V	18V - 30V	18V - 30V	18V - 30V	18V - 30V
	≤10 mA	≤10 mA	≤10 mA	≤10 mA	≤10 mA	≤10 mA
	120 mA	120 mA	120 mA	120 mA	120 mA	120 mA
	≤1.5V	≤1.5V	≤1.5V	≤1.5V	≤1.5V	≤1.5V
	≤10 µA	≤10 µA	≤10 µA	≤10 µA	≤10 µA	≤10 µA
	2000Hz	2000Hz	2000Hz	1000Hz	1000Hz	1000Hz
	≤15%	≤15%	≤15%	≤15%	≤15%	≤15%
	≤10%	≤10%	≤10%	≤10%	≤10%	≤10%
.2	0mm (.008 in.)	.20mm (.008 in.)	.20mm (.008 in.)	.40mm (.016 in.)	.40mm (.016 in.)	.40mm (.016 in.)
	PBTP	PBTP	PBTP	PBTP	PBTP	PBTP

### Note: Sensor dimensions in mm.

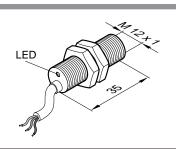
This table converts millimeters

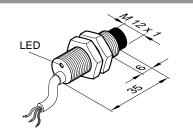
pages

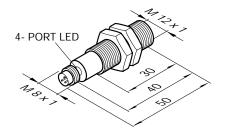
to inches in reference

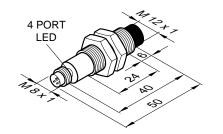
to the illustrations

included on these

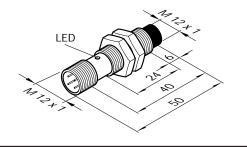












### **Accessories**

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

8000-5220 PVC, Straight 64 Connector

8000-5230 PVC, Right Angle, 2LED, PNP 64 Connector 64 Connector 8000-5240 PVC, Right Angle, 2LED, NPN

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

65 Connector 8000-5150 PVC, Right Angle, 2LED, NPN 65 Connector 8000-5160 PVC, Right Angle, 2LED, PNP

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

Refer to pages 116-121 for more

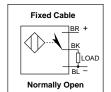
cable information

### Mounting Brackets - see Page 114-115

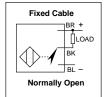
# **Wiring Diagrams**

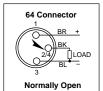
Note; Wire colors are applicable on cables purchased from Altech.

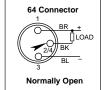
## **PNP**

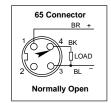


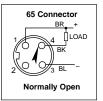
### **NPN**











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