## AC - 2 WIRE - EXTENDED VOLTAGE RANGE – Brass, Nickel Plated (BN), and TROGAMID T Cylindrical, Threaded, 20-250V AC, 500 mA, 1 LED for Output Energized

- *Higher Current Rating*
- *Wider Voltage Range*
- *Carries CE mark*

- IEC (529) IP67 (NEMA 1, 3, 4, 6, 12, 13) Protection
- 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	Cable	68	Cable	Cable	68
Normally Open	9924-0500	9924-1100	9924-0568	9924-0700	9924-1000	9924-0768
Normally Closed	9924-0400	9924-1300	9924-0468	9924-0900	9924-1200	9924-0968
Voltage Range	20V-250V	20V - 250V	20V - 250V	20V - 250V	20V - 250V	20V - 250V
Operating Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Supply Current	2 mA	2 mA	2 mA	2 mA	2 mA	2 mA
Max. Load Current	300 mA	300 mA	300 mA	300 mA	300 mA	300 mA
Voltage Drop Across Sensor	≤5V	≤5V	≤5V	≤5V	≤5V	≤5V
Max. Leakage Currrent	≤2mA	≤2mA	≤2mA	≤2mA	≤2mA	≤2mA
Short Term Current (20 ms, 1Hz)	2A	2A	2A	2A	2A	2A
Switching Frequency	15Hz	15Hz	15Hz	15Hz	15Hz	15Hz
Hysterisis	≤15%	≤15%	≤15%	≤15%	≤15%	≤15%
Temperature Drift	≤10%	≤10%	≤10%	≤10%	≤10%	≤10%
Repeatability	.20mm (.008 in.)	.20mm (.008 in.)	.20mm (.008 in.)	.40mm (.016 in.)	.40mm (.016 in.)	.40mm (.016 in.)
Front Cap Material	PBTP	PBTP	PBTP	PBTB	PBTB	PBTB
Housing Material	Nickel Plated Brass	Trogamid T	Nickel Plated Brass	Nickel Plated Brass	Trogamid T	Nickel Plated Brass

Nickel Plated Brass Housings

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 non-metallic locknuts for Trogamid T housings and Nickel Plated (BN) locknuts for Nickel Plated Brass housings.
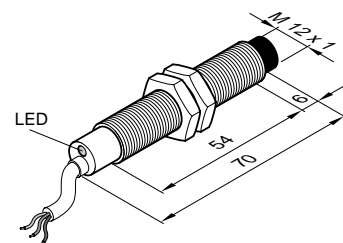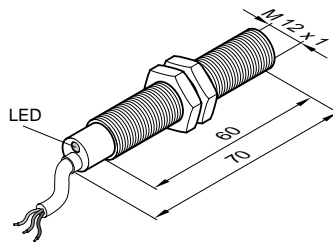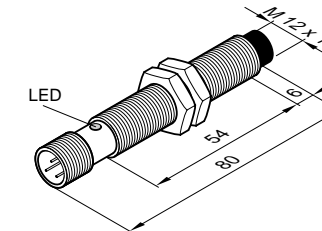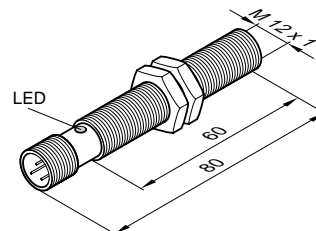
Trogamid T Housings
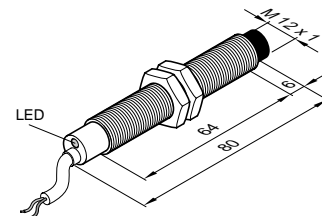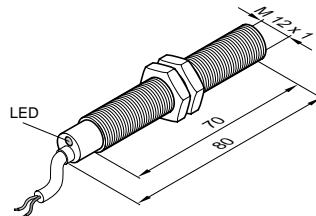
68 Style Connectors
3-pin, Micro style, 12mm (.47 in.) supplied with Brass, Nickel Plated (BN) locknuts.

Metric/in. Conversion Table

1.0 mm = .04 in.	60.0 mm = 2.36 in.
6.0 mm = .23 in.	64.0 mm = 2.52 in.
8.0 mm = .31 in.	70.0 mm = 2.75 in.
12.0 mm = .47 in.	80.0 mm = 3.15 in.
54.0 mm = 2.12 in.	

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

Accessories

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

68 Connector	8000-5130	PVC Straight
68 Connector	8000-5140	Right Angle

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

Refer to pages 116-121 for more cable information

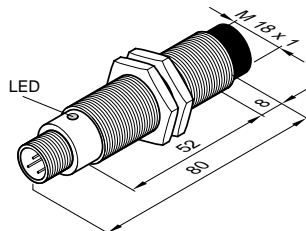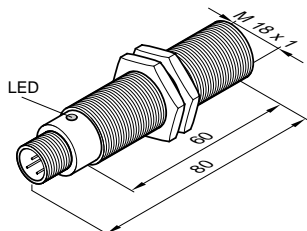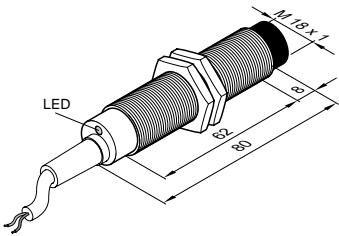**Mounting Brackets – see Pages 114-115**
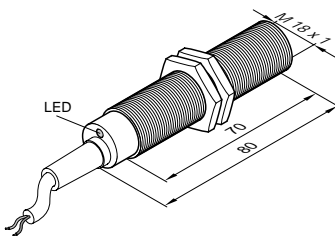
M18 Flush Mount
5mm (0.2 in.)

M18 Non-Flush Mount
8mm (0.3 in.)

Cable	Cable	68	Cable	Cable	68
9921-1200	9921-2000	9921-1268	9921-1500	9921-2200	9921-1568
9921-1300	9921-2100	9921-1368	9921-1700	9921-2300	9921-1768
20V - 250V	20V - 250V	20V - 250V	20V - 250V	20V - 250V	20V - 250V
50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
2 mA	2 mA	2 mA	2 mA	2 mA	2 mA
500 mA	500 mA	500 mA	500 mA	500 mA	500 mA
≤5V	≤5V	≤5V	≤5V	≤5V	≤5V
≤2mA	≤2mA	≤2mA	≤2mA	≤2mA	≤2mA
8A	8A	8A	8A	8A	8A
15Hz	15Hz	15Hz	15Hz	15Hz	15Hz
≤15%	≤15%	≤15%	≤15%	≤15%	≤15%
≤10%	≤10%	≤10%	≤10%	≤10%	≤10%
.50mm (.02 in.)	.50mm (.02 in.)	.50mm (.02 in.)	.8mm (.039 in.)	.8mm (.039 in.)	.8mm (.039 in.)
PBTB	PBTB	PBTB	PBTB	PBTB	PBTB
Nickel Plated Brass	Trogamid T	Nickel Plated Brass	Nickel Plated Brass	Trogamid T	Nickel Plated Brass

Note: Sensor dimensions in mm.

LED — M 18 x 1, 50, 60

LED — M 18 x 1, 8, 42, 60

LED — M 18 x 1, 70, 80

LED — M 18 x 1, 8, 62, 80

LED — M 18 x 1, 60, 80

LED — M 18 x 1, 8, 52, 80
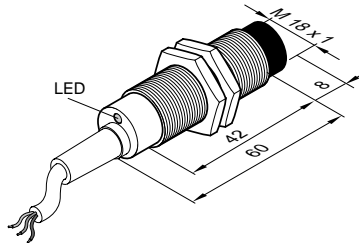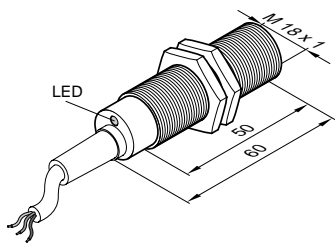
Wiring Diagrams

Note: Wire colors are applicable to cable purchased from Altech

Fixed Cable
BR
BL LOAD
Yellow/GRN
Normally Open

Fixed Cable
BR
BL LOAD
Yellow/GRN
Normally Closed

Fixed Cable
BR
BL LOAD
Normally Open

Fixed Cable
BR
LOAD
BL
Normally Closed

68 Connector
Red/WHT
Red
LOAD
GRN
Normally Open

68 Connector
Red/WHT
Red
LOAD
GRN
Normally Closed
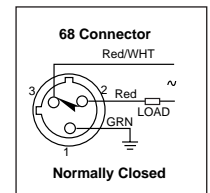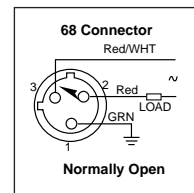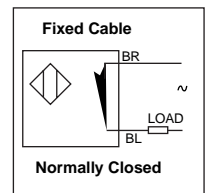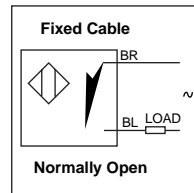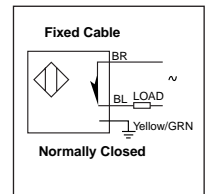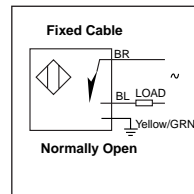
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