

**DC - 2 WIRE NAMUR**  
**Brass, Nickel Plated (BN),**  
**and Plastic (TROGAMID-T)**  
**Cylindrical, Threaded**

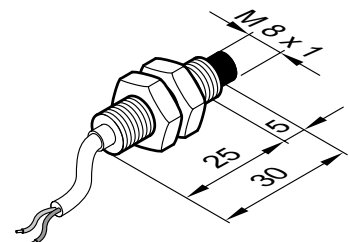
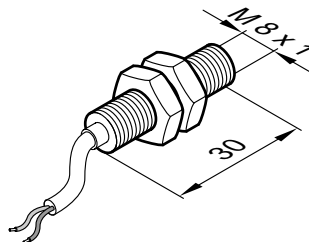
- **Low energy device**
- **Operates in hazardous areas with external amplifier**
- **Meets NAMUR regulations and DIN 19234 specifications**
- **Carries C mark**

- IEC(529) IP67 (NEMA 1, 3, 4, 6, 12, 13) Protection
- Reverse Polarity Protection
- Plastic and Metal Housing according to NAMUR Regulations and DIN 19234
- Temperature Range: -25 to 70°C (-13 to 158°F)  
 (For extended temperature models of -40°C to +125°C, consult Altech.)

Sensing Distance	M8 Flush Mount 1mm (.04 in.)		M8 Non-Flush Mount 2mm (.08 in.)	
	Cable	65	Cable	65
Cable or Connector Style Cat. No.				
Nickel Plated Brass (BN)	9932-0100	9932-0165	9932-0200	9932-0265
Plastic (TROGAMID T)			9932-1600	
Ripple Voltage	≤5%	≤5%	≤15%	≤5%
Voltage Range (supplied by Pulsotronic 8100-2200 Unit)	8.2V DC at 1KΩ	8.2V DC at 1KΩ	8.2V DC at 1KΩ	8.2V DC at 1KΩ
Output Current ( with target detection)	0.5 mA	0.5 mA	0.5 mA	0.5 mA
Output Current ( no target detection)	3.5 mA	3.5 mA	3.5 mA	3.5 mA
Switching Frequency	2000 0Hz	2000 Hz	1000 Hz	1000 Hz
Hysteresis	≤15%	≤15%	≤15%	≤15%
Temperature Drift	≤10%	≤10%	≤10%	≤10%
Repeatability	.1mm (.004 in.)	.1mm (.004 in.)	.2mm (.008 in.)	.2mm (.008 in.)
Front Cap Material	PBTP (Metal Housing)	PBTP (Metal Housing)	PBTP (Metal Housing)	PBTP (Metal Housing)

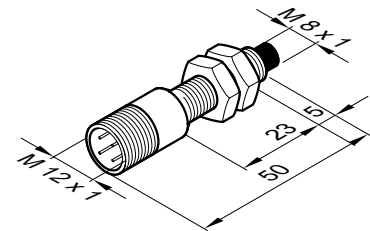
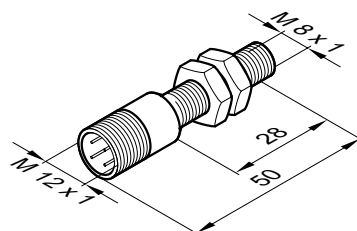
**Fixed Cable**

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.



**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.	24.0 mm = .94 in.
5.0 mm = .20 in.	25.0 mm = 1.0 in.
6.0 mm = .23 in.	28.0 mm = 1.16 in.
8.0 mm = .31 in.	30.0 mm = 1.20 in.
12.0 mm = .47 in.	40.0 mm = 1.57 in.
23.0 mm = .91 in.	50.0 mm = 1.97 in.

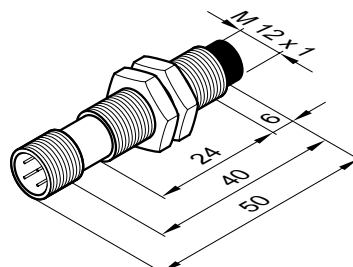
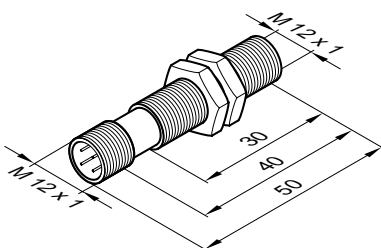
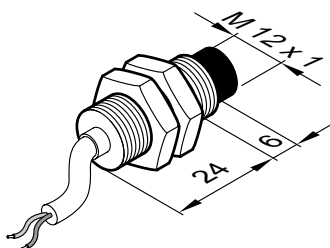
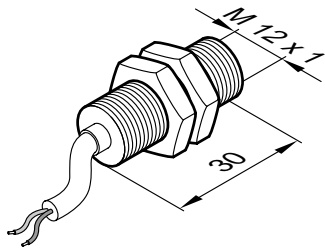
This table converts millimeters to inches in reference to the illustrations included on these pages

### M12 Flush Mount 2mm (.08 in.)

### M12 Non-Flush Mount 4mm (.16 in.)

Cable	65	Cable	65
9932-0300	9932-0365	9932-0400	9932-0465
9932-1100		9932-1000	
≤15%	≤5%	≤5%	≤5%
8.2V DC at 1KΩ	8.2V DC at 1KΩ	8.2V DC at 1KΩ	8.2V DC at 1KΩ
0.5 mA	0.5 mA	0.5 mA	0.5 mA
3.5 mA	3.5 mA	3.5 mA	3.5 mA
2000 Hz	2000 Hz	1000 Hz	1000 Hz
≤15%	≤15%	≤15%	≤15%
≤10%	≤10%	≤10%	≤10%
.2mm (.008 in.)	.2mm (.008 in.)	.4mm (.016 in.)	.4mm (.016 in.)
PBTP (Metal Housing)	PBTP (Metal Housing)	PBTP (Metal Housing)	PBTP (Metal Housing)

Note: Sensor dimensions in mm.



### Accessories

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

65 Connectors, 4 PIN – 4 Wire cable (PIN 1, 2, 3, 4) :  
65 Connector 8000-5280 PVC Right Angle

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

Refer to pages 116-121 for more cable information

Remote Amplifier –  
Use 8100-2200, see page 123

Mounting Brackets – see Pages 114-115

### Wiring Diagrams

Note: Wire colors are applicable to cable purchased from Altech

