



## DC - 2 WIRE-STANDARD

**Brass, Nickel Plated (BN), Cylindrical, Threaded,  
10-30V DC, 200mA,  
LED for Output Energized**

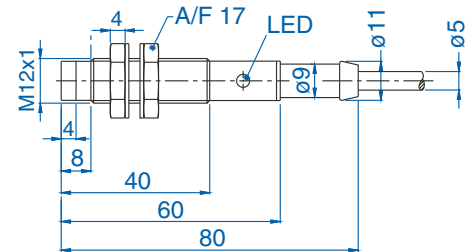
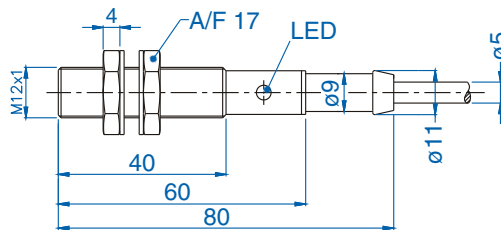


- IEC (529) IP67 (NEMA 1, 3, 4, 6, 12, 13) Protection
- Short Circuit Protection
- Overload Protection
- Reverse Polarity Protection
- Wire Break Resistance
- Transient Voltage Protection
- Temperature Range: -25 to 70°C (-13 to 158°F)

	M12 Flush Mount	M12 Non-Flush Mount
<b>Sensing Distance</b>	<b>2mm (.08 in.)</b>	<b>4mm (.16 in.)</b>
<b>Cable or Connector Style Cat. No.</b>	<b>Cable</b>	<b>Cable</b>
Normally Open 	AIS12F02AD024-2M	AIS12N04AD024-2M
Normally Closed 	AIS12F02RD024-2M	AIS12N04RD024-2M
Ripple Voltage	≤10%	≤10%
Voltage Range	10-30V	10-30V
Holding Current	≤4mA	≤4mA
Max. Load Current	200 mA	200 mA
Voltage Drop Across Sensor	≤4.5V	≤4.5V
Max. Leakage Current	≤1mA	≤1mA
Switching Frequency	400 Hz	400 Hz
Hysteresis	≤0.2mm	≤0.6mm
Temperature Drift	±4µm/K	±8µm/K
Repeatability	≤0.1mm	≤0.3mm

### Fixed Cable

PVC 2m (6ft. 6in.) encapsulated oil resistant cable. For other cable lengths and/or PUR cable, please consult Altech. Supplied with brass, nickel plated locknuts.



*Note: Sensor dimensions in mm.*

## Metric/in. Conversion Table

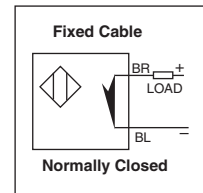
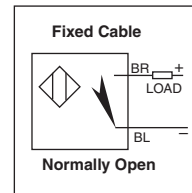
1.5 mm = .06 in.	23.0 mm = .08 in.
2.0 mm = .08 in.	28.0 mm = 1.10 in.
4.0 mm = .16 in.	30.0 mm = 1.18 in.
5.0 mm = .20 in.	32.0 mm = 1.26 in.
6.0 mm = .23 in.	34.0 mm = 1.34 in.
8.0 mm = .31 in.	40.0 mm = 1.57 in.
10.0 mm = .39 in.	50.0 mm = 1.97 in.
12.0 mm = .47 in.	51.0 mm = 2.01 in.
15.0 mm = .59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

If you do not see a converted dimension, multiply mm by 0.03937 to convert to inches.

## Wiring Diagrams

Note: Wire colors are applicable on cables purchased from Altech



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