AC - 2 WIRE-STANDARD

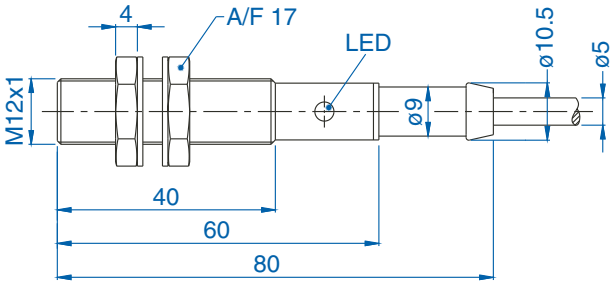
Brass, Nickel Plated (BN), Cylindrical, Threaded, 90-250V AC, 250mA, LED for Output Energized

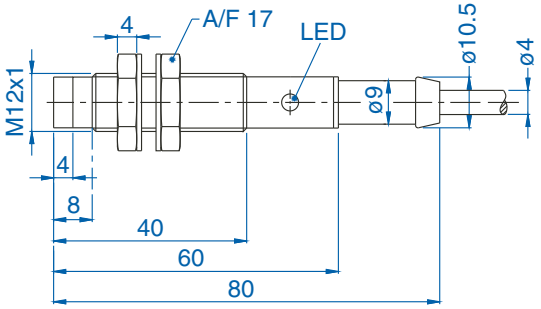
- IEC (529) IP67 (NEMA 1, 3, 4, 6, 12, 13) Protection
- Overload Protection
- Wire Break Resistance
- Transient Voltage Protection
- Temperature Range: -25 to 70°C (-13 to 158°F)

CE

	M12 Flush Mount	M12 Non-Flush Mount
Sensing Distance	**2mm (.08 in.)**	**4mm (.16 in.)**
Cable or Connector Style Cat. No.	**Cable**	**Cable**
Normally Open	AIS12F02AW220-2M	AIS12N04AW220-2M
Normally Closed	–	–
Ripple Voltage	–	–
Voltage Range	90-250V	90-250V
Supply Current	≥10mA	≥10mA
Max. Load Current	250 mA	250 mA
Voltage Drop Across Sensor	≤9V	≤9V
Max. Leakage Currrent	≤3mA	≤3mA
Switching Frequency	10 Hz	10 Hz
Hysterisis	≤0.4mm	≤0.6mm
Temperature Drift	≤±4µm/K	≤±8µm/K
Repeatability	≤0.1mm	≤0.4mm

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.





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 coverted dimension, multiply mm by 0.03937 to convert to inches.

M18 Flush Mount	M18 Non-Flush Mount
5mm (.20 in.)	**8mm (.31 in.)**
Cable	**Cable**
AIS18F05AW220-2M	AIS18N08AW220-2M
AIS18F05RW220-2M	AIS18N08RW220-2M
–	–
90-250V	90-250V
10mA	≥10mA
250 mA	250 mA
9V	≤9V
3mA	≤3mA
10 Hz	10 Hz
0.5mm	≤0.8mm
≤±10µm/K	≤±16µm/K
≤0.2mm	≤0.4mm

Wiring Diagrams

Note: Wire colors are applicable on cables purchased from Altech