

DC - 3 WIRE-STANDARD
Brass, Nickel Plated (BN), Cylindrical,
Threaded, 10-30V DC, 250mA,
LED for Output Energized

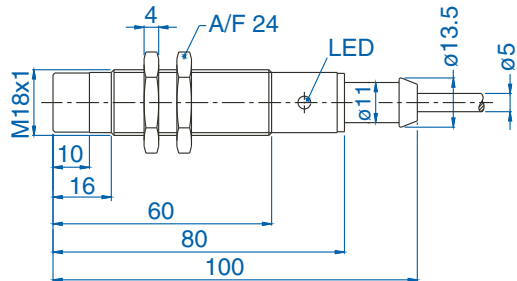
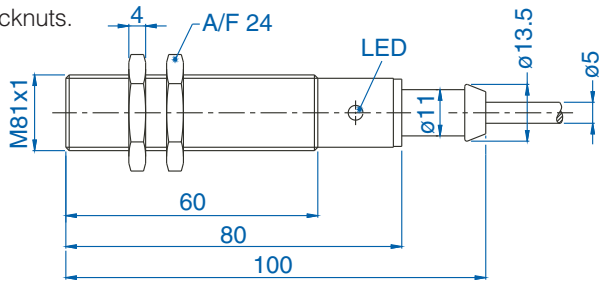


- IEC (529) IP67 (NEMA 1, 3, 4, 6, 12, 13) Protection
- Short Circuit Protection
- Overload Protection
- Reverse Polarity Protection
- Wire Break Resistance
- Transient Voltage Protection
- Temperature Range: -25 to 70°C (-13 to 158°F)

M18 Flush Mount			Non-Flush 18 Flush Mount		
Sensing Distance			Sensing Distance		
5mm (.20 in.)			8mm (.31 in.)		
Cable or Connector Style	Cat. No.		Cable	65	
PNP	Normally Open		AIS18F05AP024-2M	AIS18F05AP024-Q65	AIS18N08AP024-2M
	Complementary NO/NC*		AIS18F05UP024-2M	AIS18F05UP024-Q65	AIS18N08UP024-2M
NPN	Normally Open		AIS18F05AN024-2M	AIS18F05AN024-Q65	AIS18N08AN024-2M
	Complementary NO/NC*		AIS18F05UN024-2M	AIS18F05UN024-Q65	AIS18N08UN024-2M
Ripple Voltage			≤ 10%	≤ 10%	
Voltage Range			10-30V	10-30V	
No-Load Current			≤15 mA	≤15 mA	
Max. Load Current			250 mA	250 mA	
Voltage Drop Across Sensor			≤2.5V	≤ 2.5V	
Max. Leakage Current			≤ 1 µA	1µA	
Switching Frequency			500 Hz	500 Hz	
Hysteresis			0.5mm	≤0.8mm	
Temperature Drift			≤±10µm/K	≤±16µm/K	
Repeatability			≤0.2mm	≤0.4mm	

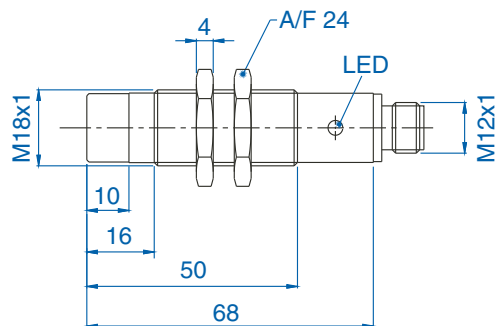
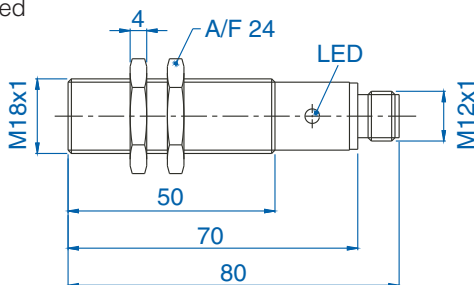
Fixed Cable

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



65 Style Connector

4-pin, Micro style, 12mm (.47 in.). Supplied with brass, nickel plated locknuts.



Metric/in. Conversion Table

1.5 mm = .06 in.	23.0 mm = .89 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 covered dimension, multiply mm by 0.03937 to convert to inches.

M30 Flush Mount

10mm (.39 in.)

M30 Non-Flush Mount

15mm (.59 in.)

Cable	65	Cable	65
AIS30F10AP024-2M	AIS30F10AP024-Q65	AIS30N15AP024-2M	AIS30N15AP024-Q65
AIS30F10UP024-2M	AIS30F10UP024-Q65	AIS30N15UP024-2M	AIS30N15UP024-Q65
AIS30F10AN024-2M	AIS30F10AN024-Q65	AIS30N15AN024-2M	AIS30N15AN024-Q65
AIS30F10UN024-2M	AIS30F10UN024-Q65	AIS30N15UN024-2M	AIS30N15UN024-Q65

≤10%

≤10%

10-30V

10V-30V

≤15 mA

≤15 mA

250 mA

250 mA

≤2.5V

≤2.5V

≤1 μA

≤1 μA

300 Hz

300 Hz

1.0mm

≤1.5mm

≤±20μm/K

≤±30μm/K

≤0.5mm

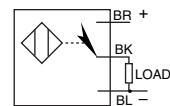
≤1.0mm

Wiring Diagrams

Note: Wire colors are applicable on cables purchased from Altech

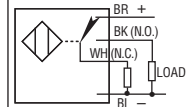
PNP

Fixed Cable



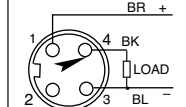
Normally Open

Cable Connector



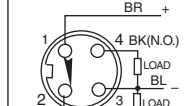
NO / NC

65 Connector



Normally Open

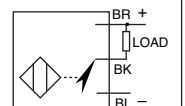
65 Connector



NO / NC

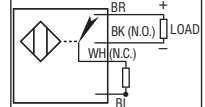
NPN

Fixed Cable



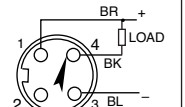
Normally Open

Cable Connector



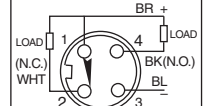
NO / NC

65 Connector



Normally Open

65 Connector



NO / NC

