

DC - 3 WIRE-SHORT BODY

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

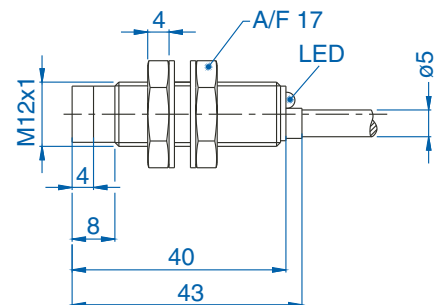
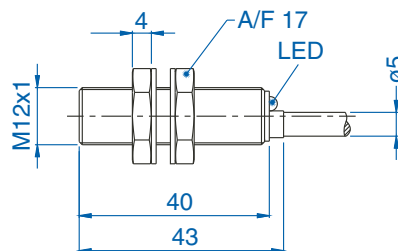


- IEC (529) IP67 (NEMA 1, 3, 4, 6, 12, 13) Protection
- Short Circuit Protection
- Overload Protection
- Reverse Polarity Protection
- Wire Break Resistance
- Transient Voltage Protection
- Temperature Range: -25 to 70°C (-13 to 158°F)

M12 Flush Mount				M12 Non-Flush Mount	
Sensing Distance 2mm (0.08 in.)				4mm (.16 in.)	
Cable or Connector Style Cat. No.		Cable	65	Cable	65
PNP	Normally Open		AIK12F02AP024-2M AIK12F02AP024-Q65	AIK12N04AP024-2M	AIK12N04AP024-Q65
	Normally Open		AIK12F02AN024-2M AIK12F02AN024-Q65	AIK12N04AN024-2M	AIK12N04AN024-Q65
Ripple Voltage			≤ 10%	≤ 10%	
Voltage Range			10-30V	10-30V	
No-Load Current			≤ 15 mA	≤ 15mA	
Max. Load Current			250 mA	250 mA	
Voltage Drop Across Sensor			≤ 2.5V	≤ 2.5V	
Max. Leakage Current			≤ 1 µA	1µA	
Switching Frequency			1000 Hz	1000 Hz	
Hysteresis			≤ 0.2mm	≤ 0.6mm	
Temperature Drift			≤ ±4µm/K	±8µm/K	
Repeatability			≤ 0.1mm	≤ 0.3mm	

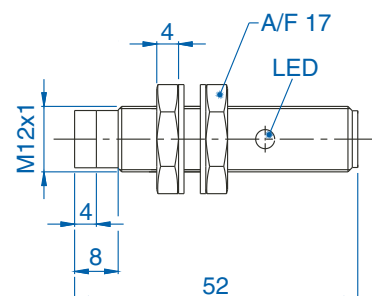
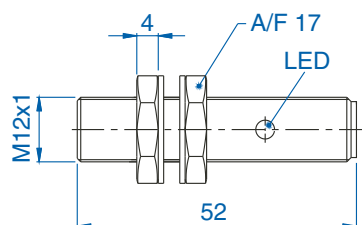
Fixed Cable

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.



Note: Sensor dimensions in mm.

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.

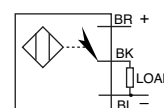
M18 Flush Mount 5mm (.20 in.)		M18 Non-Flush Mount 8mm (.31 in.)	
Cable	65	Cable	65
AIK18F05AP024-2M	AIK18F05AP024-Q65	AIK18N08AP024-2M	AIK18N08AP024-Q65
AIK18F05AN024-2M	AIK18F05AN024-Q65	AIK18N08AN024-2M	AIK18N08AN024-Q65
	≤10%		≤10%
	10-30V		10V-30V
	≤15 mA		≤15 mA
	250 mA		250 mA
	≤2.5V		≤2.5V
	≤1 μA		≤1 μA
	500 Hz		500 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

PNP

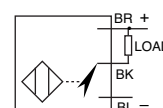
Fixed Cable



Normally Open

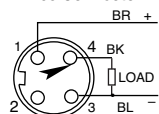
NPN

Fixed Cable



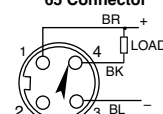
Normally Open

65 Connector



Normally Open

65 Connector



Normally Open

Note: Sensor dimensions in mm.

Mouser Electronics

Authorized Distributor

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Altech:

[AIK12N04AP024-2M](#) [AIK18N08AN024-2M](#) [AIK18F05AP024-2M](#) [AIK12N04AN024-Q65](#) [AIK18F05AN024-Q65](#)
[AIK12F02AN024-2M](#) [AIK12F02AN024-Q65](#) [AIK12F02AP024-Q65](#) [AIK18N08AN024-Q65](#) [AIK18N08AP024-Q65](#)
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[AIK18F05AP024-Q65](#)