DC - 3 WIRE MINI METAL HOUSING Cylindrical, 10-30V DC, 200mA LED for Output Energized

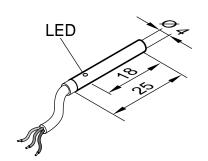
- 4mm, 5mm, and 6.5mm diameter
- Economically Priced
- Non-connector models feature polyurethane (PUR) cables
- Carries (E mark

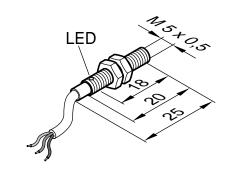
- IEC(529) IP67 (NEMA 1, 3, 4, 6, 12, 13) Protection
- Short Circuit Protection
- Overload Protection
- Reverse Polarity Protection
- · Wire Break Resistance
- Temperature Range: -25 to 70°C (-13 to 158°F)

	Ø 4 Flush Mount		M5 Flush Mount	
Sensing Distance	0.8mm (0.03 in.)		0.8mm (0.03 in.)	
Cable or Connector Style Cat. No.	Cable	64	Cable	64
PNP Normally Open Normally Closed	9980-1010	9980-1064	9980-2010	9980-2064
NPN Normally Open Normally Closed	9980-1110	9980-1164	9980-2110	9980-2164
Ripple Voltage	≤10%	≤10%	≤10%	≤10%
Voltage Range	10V-30V	10V - 30V	10V - 30V	10V - 30V
Supply Current	≤10 mA	≤10 mA	≤10 mA	≤10 mA
Max. Load Current	200 mA	200 mA	200 mA	200 mA
Voltage Drop Across Sensor	≤2V	≤2V	≤2V	≤2V
Max. Leakage Currrent	≤100 µA	≤100 µA	≤100 µA	≤100 μA
Switching Frequency	5000 Hz	5000 Hz	5000 Hz	5000 Hz
Hysterisis	Typ. 5%	Тур. 5%	Typ. 5%	Typ. 5%
Temperature Drift	≤10%	≤10%	≤10%	≤10%
Repeatability	.04mm (.003 in.)	.04mm (.003 in.)	.04mm (.003in.)	.04mm (.003in.)
Front Cap Material	PBTP	PBTP	PBTB	PBTB
Housing Material	Nickel Plated Brass	Nickel Plated Brass	Nickel Plated Brass	Nickel Plated Brass

Fixed Cable

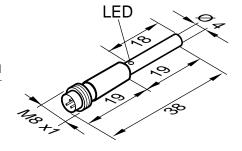
PUR 2m (6 ft. 6 in.). Supplied with Brass, Nickel Plated (BN) locknuts for M5 model.

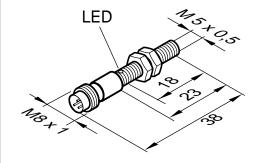




64 Style Connector

4-pin, Micro style, 12mm (.47 in.) supplied with Brass, Nickel Plated (BN) locknuts for M5 model.







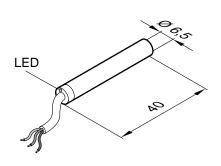
Metric/in. Conversion Table

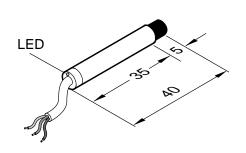
.5 mm = .019in.	19.0 mm = .74 in.
1.0 mm = .04 in.	20.0 mm = .78 in
3.5 mm = .13 in	23.0 mm = .90 in.
4.0 mm = .15 in.	25.0 mm = .94 in.
5.0 mm = .19 in.	35.0 mm = 1.37 in.
6.5 mm = .25 in.	40.0 mm = 1.57 in.
8.0 mm = .31 in.	43.0 mm = 1.69 in.

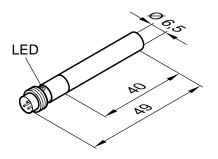
This table converts millimeters to inches in reference to the illustrations included in this catalog

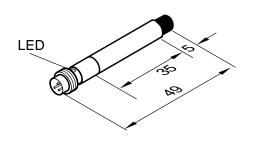
Ø 6.5 Flush Mount		Ø 6.5 Non-Flush Mount		
U) mmc.r	1.5mm (0.06 in.)		3.0mm (0.11 in.)	
Cable	65	Cable	65	
9961-1200	9961-1264	9961-1300	9961-1364	
≤10%	≤10%	≤10%	≤10%	
10V - 30V	10V - 30V	10V - 30V	10V - 30V	
≤8 mA	≤8 mA	≤8 mA	≤8 mA	
200 mA	200 mA	200 mA	200 mA	
≤2.4V	≤2.4V	≤2.4V	≤2.4V	
≤10 µA	≤10 µA	≤10 µA	≤10 µA	
2000 Hz	2000 Hz	2000 Hz	2000 Hz	
≤15%	≤15%	≤15%	≤15%	
≤10%	≤10%	≤10%	≤10%	
.15mm (.006in.)	.15mm (.006in.)	.15mm (.006in.)	.15mm (.006in.)	
PBTB	PBTB	PBTB	PBTB	
Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	

Note: Sensor dimensions in mm.









Accessories

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

64 Connector 8000-5220 PVC, Straight

64 Connector 8000-5230 PVC, Right Angle, 2LED, PNP 64 Connector 8000-5240 PVC, Right Angle, 2LED, NPN

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

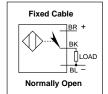
Refer to pages 116-121 for more cable information

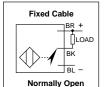
Mounting Brackets – see Pages 114-115

Wiring Diagrams

Note: Wire colors are applicable to cabl;e purchased from Altech

PNP





NPN

