DC - 3WIRE
EXTENDED RANGE PLUS
Brass, Nickel Plated (BN),
Cylindrical, Threaded,
10-30V DC, 200mA
1 LED for Output Energized

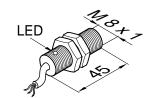
- Up to 3 times the sensing distance
- Ideal for applications where large sensors will not fit
- Carries (€ mark

- IEC(529) IP67 (NEMA 1, 3, 4, 6, 12, 13) Protection
- Sensing ranges from 3mm (.12 in.) to 40mm (1.57 in.)
- Short Circuit Protection
- Overload Protection
- Reverse Polarity Protection
- Wire Break Resistance
- Temperature Range: -25 to 70°C (-13 to 158°F)

	M8 Flush Mount			M8 Non-Flush Mount		
Sensing distance	3mm (0.1 in.)		6mm (0.2 in.)			
Cable or Connector Style Cat. No.	Cable	64	65	Cable	64	65
PNP Normally Open Normally Closed	9981-5000	9981-5064	9981-5065	9981-5200	9981-5264	9981-5265
NPN Normally Open Normally Closed						
Ripple Voltage	≤20%	≤20%	≤20	≤20%	≤20%	≤20%
Voltage Range	10-30V	10-30V	10-30V	10-30V	10-30V	10-30V
Supply Current	≤20mA	≤20mA	≤20mA	≤20mA	≤20mA	≤20mA
Max. Load Current	200mA	200mA	200mA	200mA	200mA	200mA
Voltage Drop Across Sensor	≤2.4V	≤2.4V	≤2.4V	≤2.4V	≤2.4V	≤2.4V
Max. Leakage Currrent	≤100µA	≤100µA	≤100µA	≤100µA	≤100µA	≤100µA
Switching Frequency	1000Hz	1000Hz	1000Hz	500Hz	500Hz	500Hz
Hysterisis	10%	10%	10%	10%	10%	10%
Temperature Drift	≤10%	≤10%	≤10%	≤10%	≤10%	≤10%
Housing Material	Nickel Plated Brass					
Repeatability	.15mm (.005 in.)	.15mm (.005 in.)	.15mm (.005 in.)	.3mm (.01 in.)	.3mm (.01 in.)	.3mm (.01 in.)

Fixed Cable

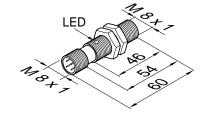
PVC 2m (6 ft. 6 in.). Supplied with Brass, Nickel Plated (BN) locknuts.

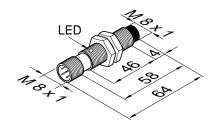




64 Connector

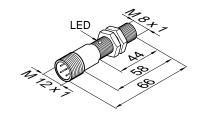
3-pin, Pico style, 8mm (.31 in.) supplied with Brass, Nickel Plated (BN) locknuts.

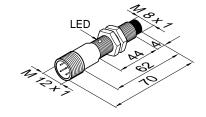




65 Style Connectors

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







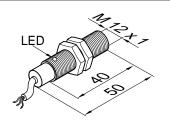
Metric/in. Conversion Table

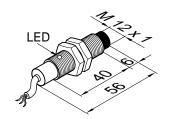
1.0 mm = .04 in.	52.0 mm = 2.04 in.
4.0 mm = .16 in	54.0 mm = 2.12 in.
6.0 mm = .23 in.	56.0 mm = 2.20 in.
8.0 mm = .31 in.	58.0 mm = 2.28 in.
12.0 mm = .47 in.	60.0 mm = 2.36 in.
40.0 mm = 1.39 in.	62.0mm = 2.44 in.
44.0 mm = 1.73 in.	66.0 mm = 2.60 in.
45.0 mm = 1.77 in.	70.0 mm = 2.75 in.
50.0 mm = 1.97 in	

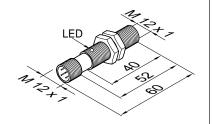
This table converts millimeters to inches in reference to the illustrations included on these pages

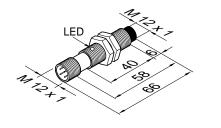
	sh Mount 0.2 in.)	M12 Non-Flush Mount 10mm (0.4 in.)		
Cable	65	Cable	65	
9982-5000	9982-5065	9982-5200	9982-5265	
≤20%	≤20%	≤20%	≤20%	
10-30V	10-30V	10-30V	10-30V	
≤20mA	≤20mA	≤20mA	≤20mA	
200mA	200mA	200mA	200mA	
≤2.4V	≤2.4V	≤2.4V	≤2.4V	
≤100µA	≤100µA	≤100µA	≤100µA	
800Hz	800Hz	400Hz	400Hz	
10%	10%	10%	10%	
≤10%	≤10%	≤10%	≤10%	
Nickel Plated Brass	Nickel Plated Brass	Nickel Plated Brass	Nickel Plated Brass	
.3mm (.01 in.)	.3mm (.01 in.)	.5mm (.02 in.)	.5mm (.02 in.)	

Note: Sensor dimensions in mm.









Accessories

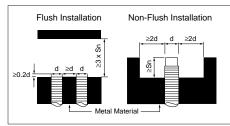
2 meter (6 ft. 6 in.) DC Cable Assemblies for Quick Disconnect Sensors

64 Connector	8000-5220	PVC, Straight
64 Connector	8000-5230	PVC, Right Angle, 2LED,PNP
64 Connector	8000-5240	PVC, Right Anglr, 2 LED, NPN
65 Connector	8000-5110	PVC, Straight
65 Connector	8000-5120	PVC, Right Angle
65 Connector	8000-5150	PVC, Right Angle, 2LED NPN
65 Connector	8000-5160	PVC, Right Angle, 2LED PNP

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

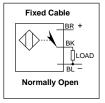


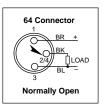
General Mounting – You must maintain minimum distance between adjacent and opposite sensors in addition to non-target metals as specified in the drawings above. Flush mount sensors must extend at least 0.2 times the sensor diameter above the adjacent metal housing. Non-flush mount sensors must extend a distance greater than the sensing distance (Sn). Please contact Altech for any installation assistance

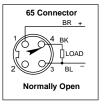
Wiring Diagrams

Note: Wire colors are applicable to cable purchased from Altech

PNP







Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Altech:

9981-5000 9981-5200 9981-5064 9981-5265 9981-5065 9982-5200 9981-5264 9982-5065