

AM SERIES ANALOG INDUCTIVE PROXIMITY SENSORS



M12 (12mm) metal – analog output

- Voltage or current analog output
- 4 models available
- Metal housing
- Axial cable or M12 quick-disconnect models
- IP67 rated

Cables and accessories

Cables and accessories can be found starting on page 16–48.

AM Series M12 Analog Inductive Prox Selection Chart						
Part Number	Price	Sensing Range	Housing	Output	Connection	Dimensions
AM9-05-1A	check	0 to 6.0mm (0-0.27in)	Shielded	0 - 5VDC or 1-5mA	2m (6.5') axial cable	Figure 1
AM9-05-1H	check				M12 (12mm) connector	Figure 2
AM9-10-1A	check	0 to 6.0mm (0-0.27in)		0-10VDC or 4-20mA	2m (6.5') axial cable	Figure 1
AM9-10-1H	check				M12 (12mm) connector	Figure 2

Specifications		
	AM9-05-1*	AM9-10-1*
Output Type	0-5VDC or 1-5mA	0-10VDC or 4-20mA
Resolution	≤1µm	
Repeat Accuracy	±0.01mm	
Material Correction Factors	See Proximity Sensor Terminology	
Operating Voltage	10 -30VDC	15 -30VDC
Ripple	≤20%	
No-load Supply Current	≤10mA	≤12mA
Voltage Output Min. Load	500Ω	1kΩ
Current Output Max. Load / Power Supply	1kΩ / 10VDC; 5kΩ / 30VDC	0.5kΩ / 15VDC; 1kΩ / 30VDC
Voltage Drop	≤2.0 V	
Time Delay Before Availability	≤50ms	
Input Voltage Transient Protection	Up to 30VDC	
Input Power Polarity Reversal Protection	Yes	
Output Power Short-Circuit Protection	Yes (switch autoresets after overload is removed)	
Temperature Range	-25° to +70° C (-13° to 158° F)	
Temperature Drift	≤10% Sr	
Protection Degree (DIN 40050)	IEC IP67	
Housing Material	Chrome-plated brass	
Sensing Face Material	PBT	
Tightening Torque	10Nm (88lb./in.)	
Weight (cable/M8 connector)	95g (3.35 oz.) / 33g (1.16 oz.)	

Figure 1

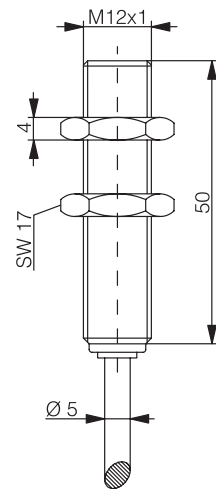
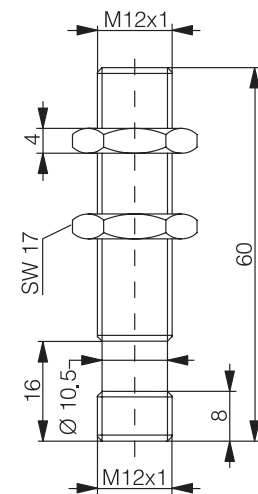
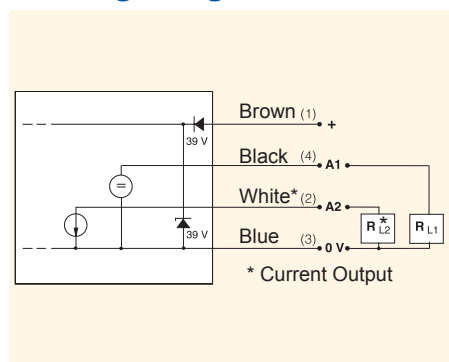


Figure 2



Wiring diagrams



Connector

