

AE Series Analog Inductive Proximity Sensors



M8 (8 mm) metal – analog output

- 4 models available
- Compact metal housing
- Axial cable or M8 quick-disconnect models
- IP67 rated

Cables and Accessories

Cables and accessories can be found starting on page 17–48.

AE Series M8 Analog Inductive Prox Selection Chart

Part Number		Sensing Range	Housing	Output	Connection	Dimensions
AE9-10-1A	<--->	0 to 4.0mm (0-0.157in)	Shielded	0-10VDC	2m (6.5') axial cable	Figure 1
AE9-10-1F	<--->				M8 (8mm) connector	Figure 2

Specifications

	AE9-10-1*
Output Type	0-10VDC
Resolution	≤1μm
Repeat Accuracy	±0.01mm
Material Correction Factors	See Proximity Sensor Terminology
Operating Voltage	15-30VDC
Ripple	≤20%
No-load Supply Current	≤10mA
Voltage Output Minimum Load	1kΩ
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 auto-resets 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	4Nm (0.71lb./in.)
Weight (cable/M8 connector)	50g (1.76 oz.) / 20g (0.71 oz.)

Dimensions

Figure 1

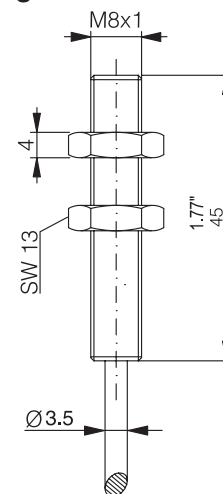
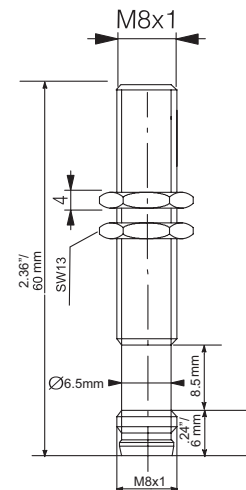
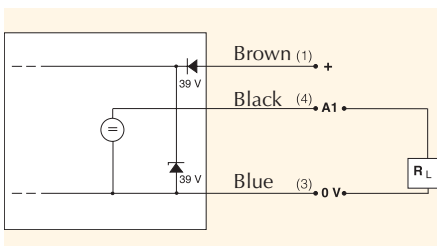


Figure 2



Wiring diagrams



Connector

