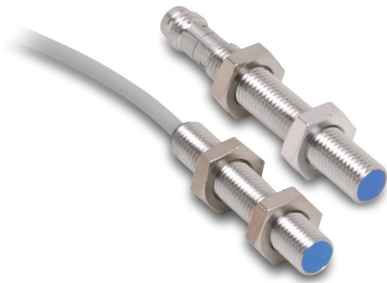


AE Series Analog Inductive Proximity Sensors



M8 (8 mm) metal – analog output

- 2 models available
- Compact metal housing
- Axial cable or M8 quick-disconnect models
- IP67 rated
- Purchase cables separately (for quick-disconnect model)
- Lifetime warranty

AE Series M8 Analog Inductive Prox Selection Chart

Part Number	Price	Sensing Range	Housing	Output	Connection	Wiring	Dimensions
AE9-10-1A	\$186.00	0 to 4 mm (0-0.157 in)	Shielded	0-10VDC	2m (6.5') axial cable	Diagram 1	Figure 1
AE9-10-1F	\$186.00				M8 (8 mm) connector	Diagram 1	Figure 2

Specifications

	AE9-10-1*
Mounting Type	Shielded
Nominal Distance	0 to 4 mm (0-0.157 in)
Operating Distance	NA
Material Correction Factors	See the Material influence table
Output Type	0-10 VDC
Operating Voltage	15-30 VDC
No-load Supply Current	≤10 mA
Operating (Load) Current	1 kΩ
Off-state (Leakage) Current	NA
Voltage Drop	≤2.0 V
Switching Frequency	NA
Differential Travel (% of Nominal Distance)	NA
Repeat Accuracy	±0.01 mm
Ripple	≤20%
Response Time	0.6 mc
Time Delay Before Availability (tv)	≤50 ms
Reverse Polarity Protection	Yes
Short-Circuit Protection	Yes (switch auto-resets after overload is removed)
Operating Temperature	-25° to +70° C (-13° to 158° F)
Protection Degree (DIN 40050)	IEC IP67
Indication/Switch Status	NA
Housing Material	Chrome-plated brass
Sensing Face Material	Polybutylene Terephthalate (PBT)
Shock/Vibration	See Proximity Sensor Terminology
Tightening Torque	4 Nm (2.95 lb-ft.)
Weight (cable/M8 connector)	50 g (1.76 oz.) / 20 g (0.71 oz.)
Connection	2 m (6.5') axial cable or M8 (8 mm) connector
Agency Approvals	UL file E328811

Dimensions

mm [inches]

Figure 1

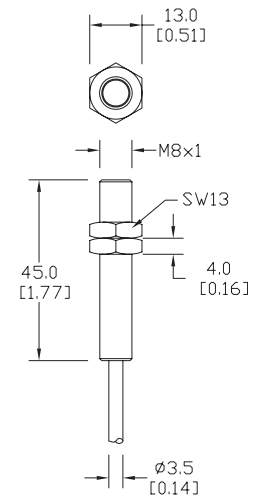
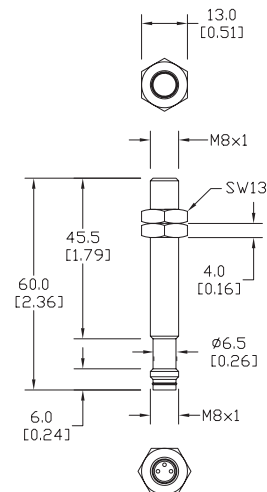
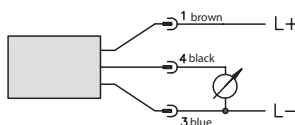


Figure 2

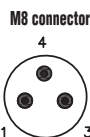


Wiring diagram

Diagram 1



Connector



Accessories for 8mm Sensors

Axial Mounting Bracket

Mounting bracket, axial, zinc-plated steel. For use with 8mm sensors. Has two mounting holes (use 3 mm screws) and allows the rotation of an optical axis for axial sensors. Hexagonal nuts not included.

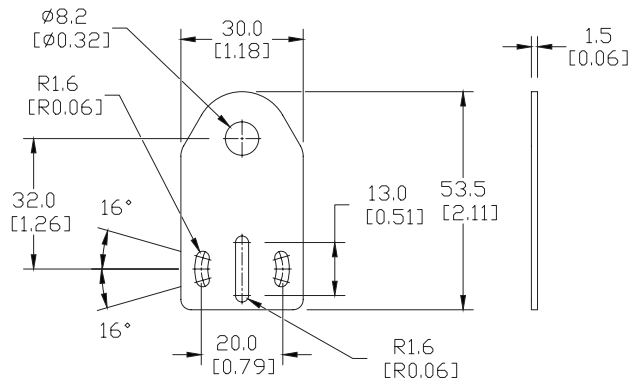


ST08A

Accessories for 8mm Sensors			
Part Number	Price	Description	Weight [lb]
ST08A	\$1.00	Mounting bracket, axial, zinc-plated steel. For use with 8mm sensors. 1/pk.	0.04

Dimensions

mm [inches]



Right-angle Mounting Bracket

Mounting bracket, right-angle, zinc-plated steel. For use with 8mm sensors. Has two mounting holes (use 3mm screws) and allows the rotation of an optical axis for right-beam-angle-adaptor sensors. Hexagonal nuts not included.

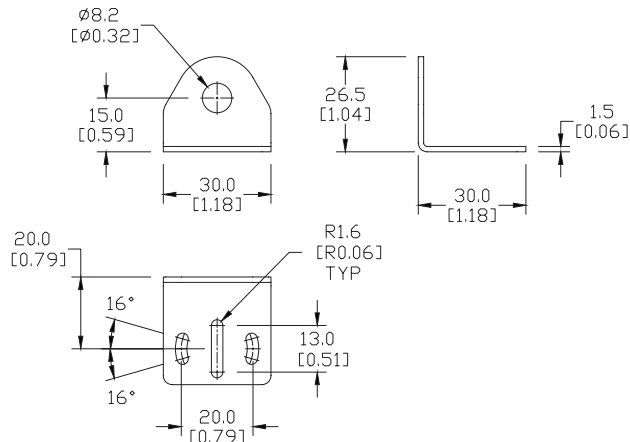


ST08C

Accessories for 8mm Sensors			
Part Number	Price	Description	Weight [lb]
ST08C	\$1.00	Mounting bracket, right angle, zinc-plated steel for 8mm sensors. 1/pk.	0.04

Dimensions

mm [inches]



See our website: www.AutomationDirect.com for complete engineering drawings

Mounting Rods

Mounting Rods

304 Stainless steel rods for mounting swivel brackets OPT2112 - OPT2127. Available in three lengths: 200mm, 300mm, and 500mm. 12mm diameter.

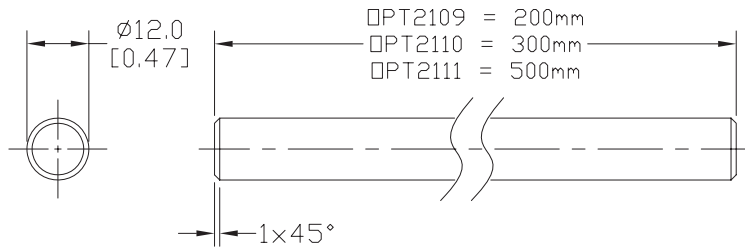
Mounting Rods for OPT2112-2127 Swivel Mounting Brackets			
Part Number	Price	Description	Weight [lb]
OPT2109	\$10.00	Mounting rod, 12mm diameter, 200mm length, 304 stainless steel.	0.41
OPT2110	\$12.00	Mounting rod, 12mm diameter, 300mm length, 304 stainless steel.	0.60
OPT2111	\$16.00	Mounting rod, 12mm diameter, 500mm length, 304 stainless steel.	0.98



OPT2109, OPT2110, OPT2111

Dimensions

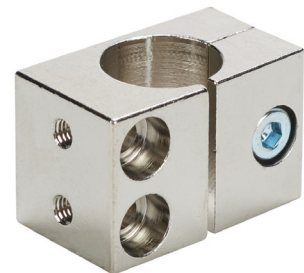
mm [inches]



Right-angle Mounting Bracket

Mounting bracket, right-angle, nickel-plated brass. For use with 12mm mounting rods OPT2109, OPT2110 & OPT2111.

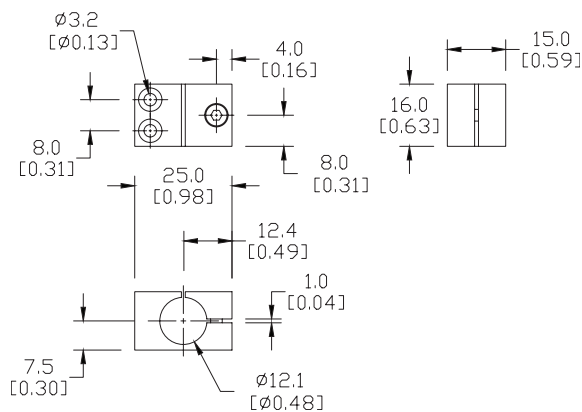
Accessories for 12mm Sensors			
Part Number	Price	Description	Weight [lb]
OPT2108	\$12.00	Mounting bracket, right-angle, nickel-plated brass. For use with 12mm mounting rods OPT2109, OPT2110 & OPT2111.	0.07



OPT2108

Dimensions

mm [inches]



See our website: www.AutomationDirect.com for complete engineering drawings