

# PEW Series Inductive Proximity Sensors



## M8 (8 mm) stainless steel - DC



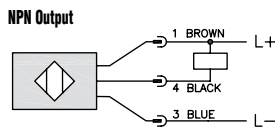
**PEW-AP-1H**

- Four flush-mountable models available
- Low cost/high performance
- Metal sensing face for extreme environments
- LED status indicators are visible at a wide angle.
- Sensing face withstands up to 1450 psi.
- M8 or M12 quick-disconnect models
- 2 M8 stainless steel lock nuts included
- Purchase cable separately
- Lifetime warranty

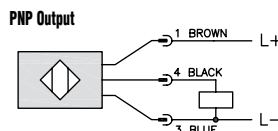
PEW Series DC Inductive Prox Selection Chart								
Part Number	Price	Sensing Range	Housing	Output State	Logic	Connection	Wiring	Dimensions
<b>Extended Distance</b>								
<b>PEW-AN-1F</b>	\$45.00	2 mm (0.08 in)	Shielded	NO	NPN	M8 (8 mm) quick disconnect	Diagram 1	Figure 1
<b>PEW-AP-1F</b>	\$45.00	2 mm (0.08 in)	Shielded	NO	PNP	M8 (8 mm) quick disconnect	Diagram 2	Figure 1
<b>PEW-AN-1H</b>	\$45.00	2 mm (0.08 in)	Shielded	NO	NPN	M12 (12 mm) quick disconnect	Diagram 1	Figure 2
<b>PEW-AP-1H</b>	\$45.00	2 mm (0.08 in)	Shielded	NO	PNP	M12 (12 mm) quick disconnect	Diagram 2	Figure 2

## Wiring diagrams

**Diagram 1**

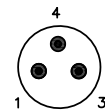


**Diagram 2**

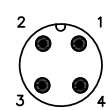


## Connectors

**M8 connector**

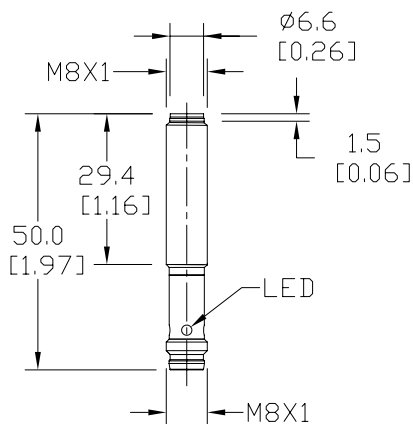


**M12 connector**

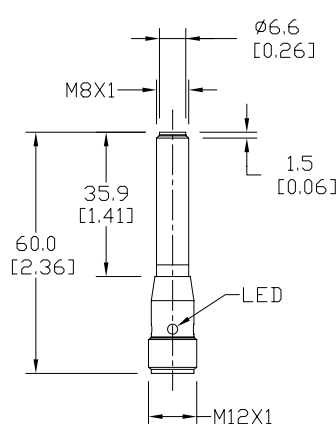


## Dimensions mm[inches]

**Figure 1**



**Figure 2**



# PEW Series Inductive Proximity Sensors

Specifications	PEW-AN-1F	PEW-AP-1F	PEW-AN-1H	PEW-AP-1H
<b>Mounting Type</b>	Shielded			
<b>Nominal Sensing Distance</b>	2 mm (0.08 in) ± 10%			
<b>Operating Distance</b>	0 to 1.6 mm (0.06 in)			
<b>Material Correction Factors</b>	See the <a href="#">Material influence table</a>			
<b>Output Type</b>	NPN, NO only	PNP, NO only	NPN, NO only	PNP, NO only
<b>Operating Voltage</b>	10 to 36 VDC			
<b>No-load Supply Current</b>	< 20 mA			
<b>Operating (Load) Current</b>	100 mA			
<b>Off-state (Leakage) Current</b>	< 0.1 mA			
<b>Voltage Drop</b>	< 2.5 V			
<b>Switching Frequency</b>	100 Hz			
<b>Differential Travel (% of nominal Distance)</b>	1 to 20% of Sr		1 to 15% of Sr	
<b>Repeat Accuracy</b>	NA			
<b>Ripple</b>	NA			
<b>Reverse Polarity Protection</b>	Yes			
<b>Short-Circuit Protection</b>	Yes (non-latching)			
<b>Operating Temperature</b>	-25° to 70°C (-13° to 158°F)			
<b>Protection Degree (DIN 40050)</b>	IEC IP67		IEC IP67/68	
<b>Indication/Switch Status</b>	4 Yellow			
<b>Housing Material</b>	316L stainless steel			
<b>Sensing Face Material</b>	316L stainless steel			
<b>Shock/Vibration</b>	See <a href="#">Proximity Sensor Terminology</a>			
<b>Tightening Torque</b>	3.5 Nm (2.58 lb-ft)			
<b>Weight</b>	18 g (0.63 oz)		20 g (0.71 oz)	
<b>Connection</b>	M8 plug with gold-plated pins		M12 plug with gold-plated pins	
<b>Agency Approvals</b>	cULus file E328811, CE, RoHS			

# 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.

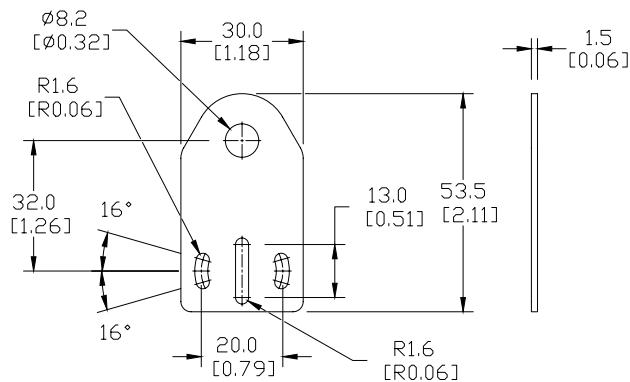


**ST08A**

Accessories for 8mm Sensors			
Part Number	Price	Description	Weight [lb]
<b>ST08A</b>	\$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.

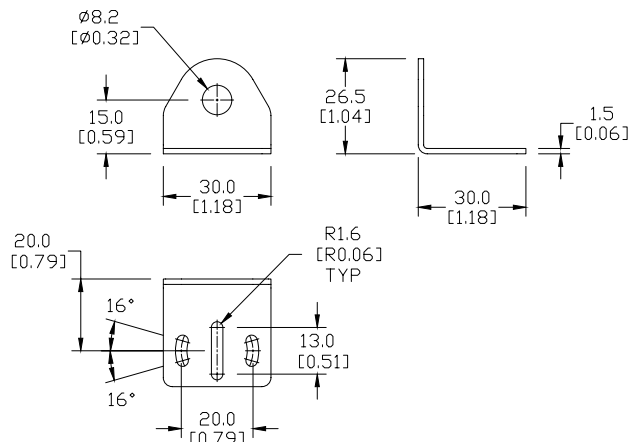


**ST08C**

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

## Dimensions

mm [inches]



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# Accessories for 8mm Sensors

## Right-angle Mounting Bracket

Mounting bracket, right-angle, plastic. For use with 8mm sensors.

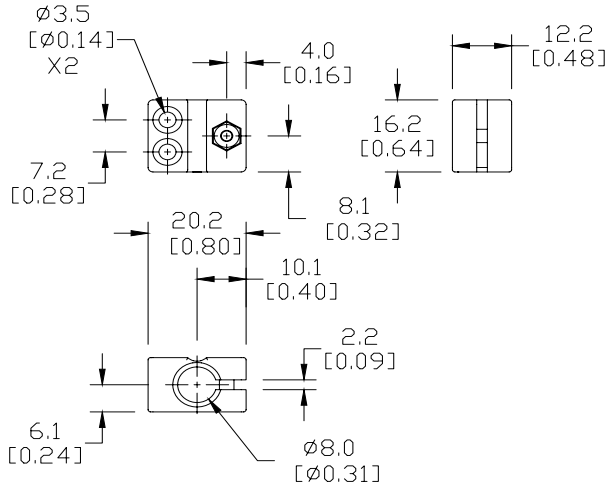
Accessories for 8mm Sensors			
Part Number	Price	Description	Weight [lb]
<b>OPT2101</b>	\$6.00	Mounting bracket, right-angle, plastic. For use with 8mm sensors.	0.02



**OPT2101**

### Dimensions

mm [inches]



## Right-angle Swivel Mounting Systems

Mounting bracket, right-angle swivel, 360 degree vertical and horizontal adjustment. For use with 8mm sensors. Available in all stainless steel or with an aluminum head and stainless steel mounting plate.

Accessories for 8mm Sensors					
Part Number	Price	Description	Mounting Head	Mounting Plate	Weight [lb]
<b>OPT2112</b>	\$9.00	Mounting bracket, right-angle swivel, 360 vertical and horizontal adjustment, aluminum, 12mm rod mount. For use with 8mm sensors.	Aluminum	304 Stainless Steel	0.14
<b>OPT2113</b>	\$16.00	Mounting bracket, right-angle swivel, 360 vertical and horizontal adjustment, 304 stainless steel, 12mm rod mount. For use with 8mm sensors.	304 Stainless Steel	304 Stainless Steel	0.26

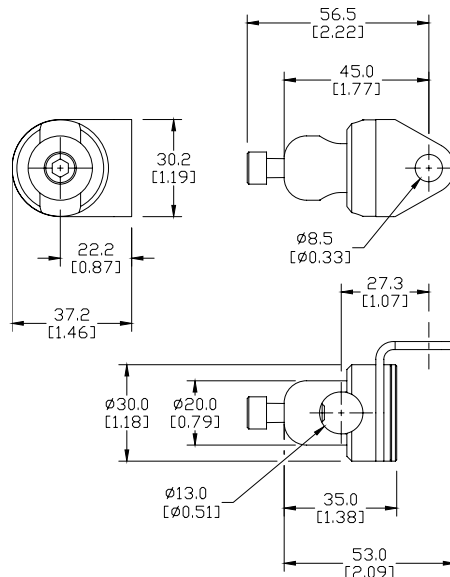
Note: 304 Stainless steel mounting rods sold separately: OPT2109 (200mm length), OPT2110 (300mm length), and OPT2111 (500mm length).



**OPT2112 & OPT2113**

### Dimensions

mm [inches]



See our website: [www.AutomationDirect.com](http://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.

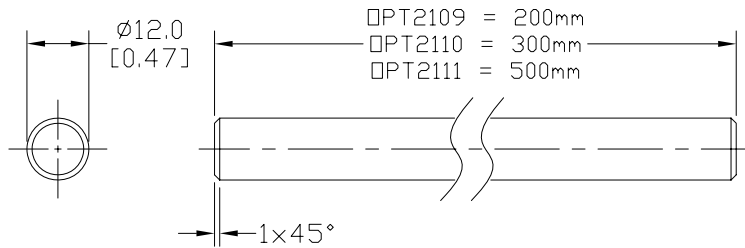
Mounting Rods for OPT2112-2127 Swivel Mounting Brackets			
Part Number	Price	Description	Weight [lb]
<b>OPT2109</b>	\$10.00	Mounting rod, 12mm diameter, 200mm length, 304 stainless steel.	0.41
<b>OPT2110</b>	\$12.00	Mounting rod, 12mm diameter, 300mm length, 304 stainless steel.	0.60
<b>OPT2111</b>	\$16.00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

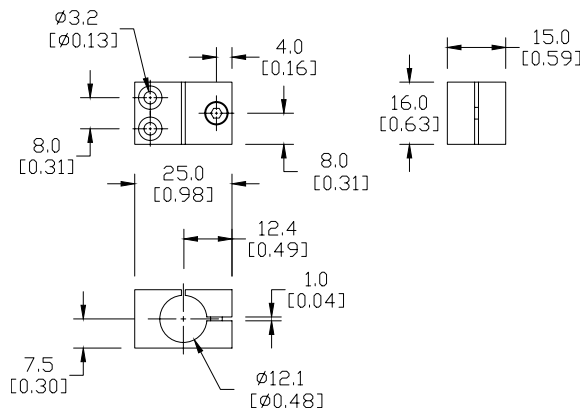
Accessories for 12mm Sensors			
Part Number	Price	Description	Weight [lb]
<b>OPT2108</b>	\$12.00	Mounting bracket, right-angle, nickel-plated brass. For use with 12mm mounting rods OPT2109, OPT2110 & OPT2111.	0.07



**OPT2108**

## Dimensions

mm [inches]



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