

# DW Series 8mm Stainless Steel Triple Sensing Proximity Sensors



## Miniature M8 (8mm) – DC

- Twelve models available
- 8mm threaded triple distance proximity sensor
- Complete overload protection
- IP67 and IP68-rated
- Two M8 lock nuts included
- Stainless steel construction
- LED status indicator
- One-piece for Harsh duty applications
- Lifetime warranty

DW Series M8 Triple Distance Inductive Prox Selection Chart												
Part Number	Price	Size	Sensing Range	Housing	Output State	Logic	Connection	Wiring	Dimensions			
<b>Triple Distance</b>												
<b>DW-AD-711-M8</b>	\$84.00	M8	6mm (0.236 in)	Unshielded	NO	NPN	2m (6.5') axial cable	Diagram 1	Figure 1			
<b>DW-AD-713-M8</b>	\$84.00					PNP		Diagram 2	Figure 1			
<b>DW-AS-711-M8-001</b>	\$84.00					NPN	M8 quick disconnect	Diagram 3	Figure 2			
<b>DW-AS-713-M8-001</b>	\$84.00					PNP		Diagram 4	Figure 2			
<b>DW-AS-711-M8</b>	\$84.00					NPN	M12 quick disconnect	Diagram 3	Figure 3			
<b>DW-AS-713-M8</b>	\$84.00					PNP		Diagram 4	Figure 3			
<b>DW-AD-712-M8</b>	\$84.00				NC	6mm (0.236 in)	Unshielded	NO	NPN	2m (6.5') axial cable	Diagram 1	Figure 1
<b>DW-AD-714-M8</b>	\$84.00								PNP		Diagram 2	Figure 1
<b>DW-AS-712-M8-001</b>	\$84.00							NPN	M8 quick disconnect	Diagram 3	Figure 2	
<b>DW-AS-714-M8-001</b>	\$84.00							PNP		Diagram 4	Figure 2	
<b>DW-AS-712-M8</b>	\$84.00							NPN	M12 quick disconnect	Diagram 3	Figure 3	
<b>DW-AS-714-M8</b>	\$84.00							PNP		Diagram 4	Figure 3	

## Dimensions

mm [inches]

Figure 1

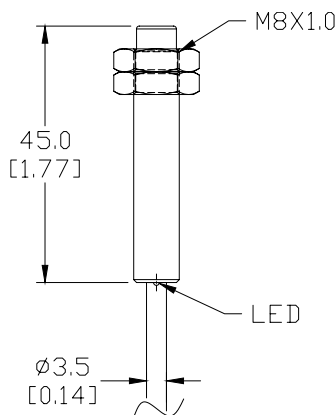


Figure 2

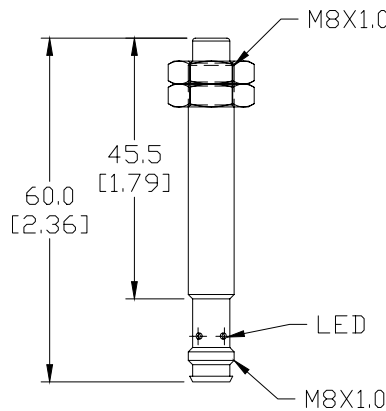
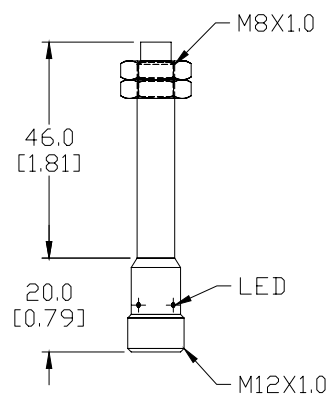


Figure 3



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# DW Series 8mm Stainless Steel Triple Sensing Proximity Sensors

DW Series M8 Stainless Steel Specifications	
<b>Sensor</b>	<b>DW-Ax-71x-M8-x</b>
<b>Mounting Type</b>	Unshielded
<b>Nominal Sensing Distance</b>	6mm
<b>Operating Distance</b>	-
<b>Material Correction Factors</b>	See the <a href="#">Material influence table</a>
<b>Output Type</b>	NPN or PNP, NO or NC
<b>Operating Voltage</b>	10 to 30 VDC
<b>No-load Supply Current</b>	≤ 10mA
<b>Operating (Load) Current</b>	≤ 100mA
<b>Off-state (Leakage) Current</b>	≤ 0.1 mA
<b>Voltage Drop</b>	≤ 2 V
<b>Switching Frequency</b>	≤ 700Hz
<b>Differential Travel (% of Nominal Distance)</b>	≤ 15%
<b>Repeat Accuracy</b>	0.30 mm
<b>Ripple</b>	≤ 20%
<b>Time Delay Before Availability (tv)</b>	≤ 70ms
<b>Reverse Polarity Protection</b>	Yes
<b>Short-Circuit Protection</b>	Yes
<b>Operating Temperature</b>	-25 to 70°C (-13 to 158°F)
<b>Protection Degree (DIN 40050)</b>	IP67, IP68
<b>Indication/Switch Status</b>	Yellow LED
<b>Housing Material</b>	Stainless steel
<b>Sensing Face Material</b>	Stainless steel
<b>Shock/Vibration</b>	IEC 60947-5-2/7.4
<b>Tightening Torque</b>	-
<b>Weight</b>	50g (1.73 oz), 18g (0.63 oz)
<b>Connection</b>	2m cable, M8 connection, M12 connection
<b>IO-Link</b>	-
<b>Agency Approvals</b>	CE, cULus E239373

Note: To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

## Wiring diagrams

Diagram 1

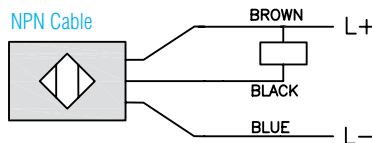


Diagram 2

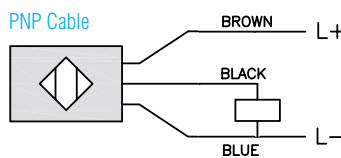


Diagram 3

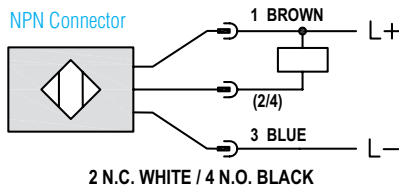
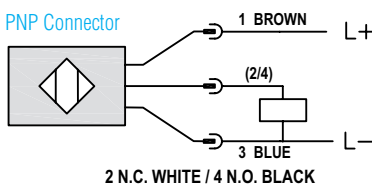
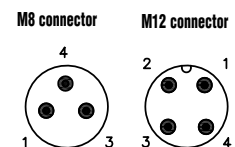


Diagram 4



## Connectors



# 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.

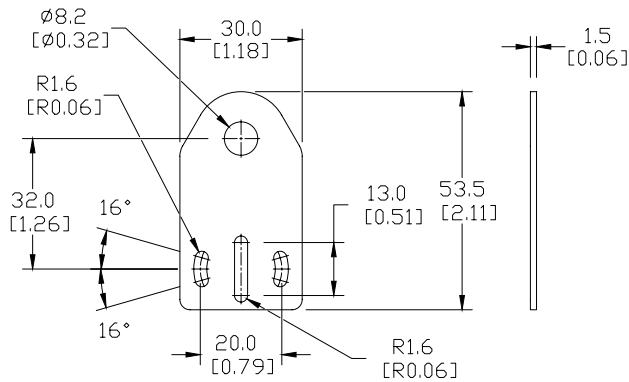


**ST08A**

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.

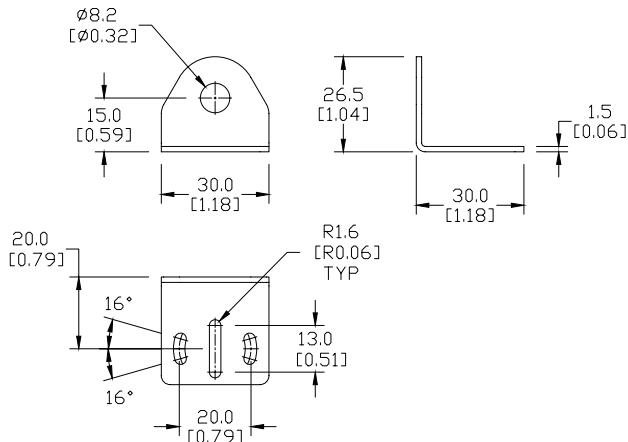


**ST08C**

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.

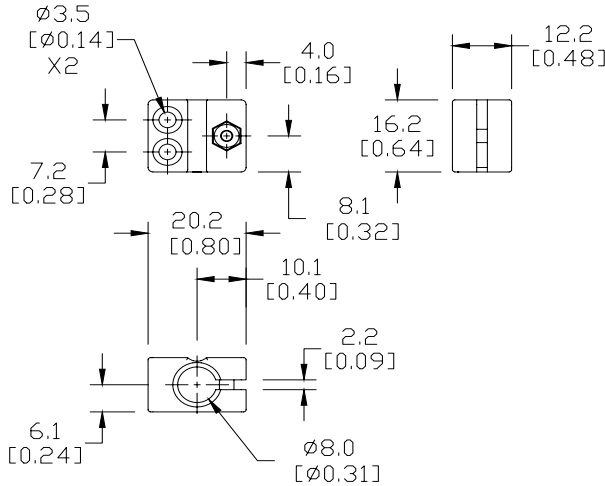
Accessories for 8mm Sensors			
Part Number	Price	Description	Weight [lb]
<b>OPT2101</b>	\$6.00	Mounting bracket, right-angle, plastic. For use with 8mm sensors.	0.02



**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.

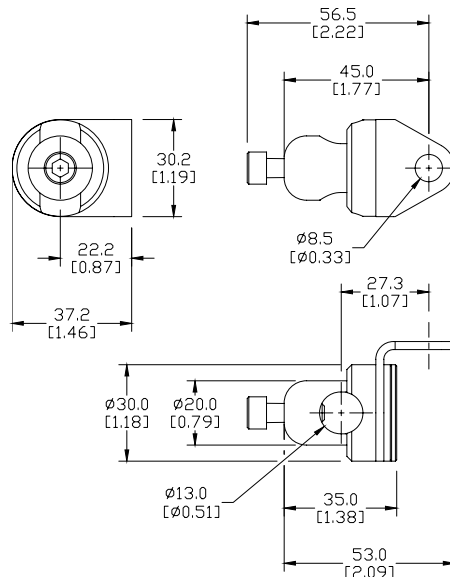
Accessories for 8mm Sensors					
Part Number	Price	Description	Mounting Head	Mounting Plate	Weight [lb]
<b>OPT2112</b>	\$9.00	Mounting bracket, right-angle swivel, 360 vertical and horizontal adjustment, aluminum, 12mm rod mount. For use with 8mm sensors.	Aluminum	304 Stainless Steel	0.14
<b>OPT2113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



**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.

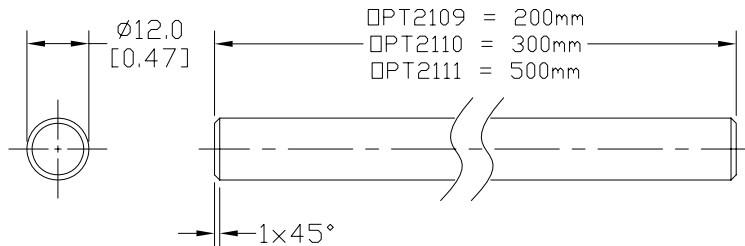
Mounting Rods for OPT2112-2127 Swivel Mounting Brackets			
Part Number	Price	Description	Weight [lb]
<b>OPT2109</b>	\$10.00	Mounting rod, 12mm diameter, 200mm length, 304 stainless steel.	0.41
<b>OPT2110</b>	\$12.00	Mounting rod, 12mm diameter, 300mm length, 304 stainless steel.	0.60
<b>OPT2111</b>	\$16.00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

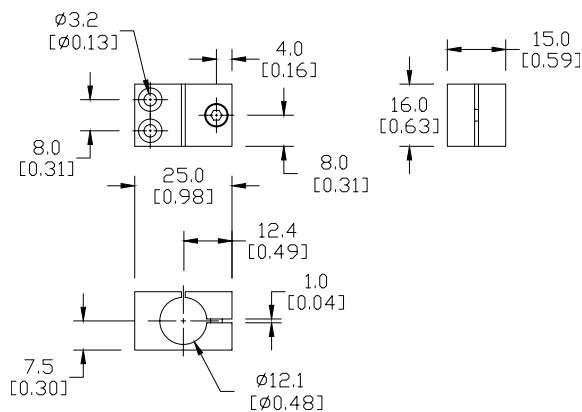
Accessories for 12mm Sensors			
Part Number	Price	Description	Weight [lb]
<b>OPT2108</b>	\$12.00	Mounting bracket, right-angle, nickel-plated brass. For use with 12mm mounting rods OPT2109, OPT2110 & OPT2111.	0.07



**OPT2108**

## Dimensions

mm [inches]



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