

# 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>												
<i>DW-AD-711-M8</i>	\$84.00	M8	6mm (0.236 in)	Unshielded	NO	NPN	2m (6.5') axial cable	Diagram 1	Figure 1			
<i>DW-AD-713-M8</i>	\$84.00					PNP		Diagram 2	Figure 1			
<i>DW-AS-711-M8-001</i>	\$84.00					NPN	M8 quick disconnect	Diagram 3	Figure 2			
<i>DW-AS-713-M8-001</i>	\$84.00					PNP		Diagram 4	Figure 2			
<i>DW-AS-711-M8</i>	\$84.00					NPN	M12 quick disconnect	Diagram 3	Figure 3			
<i>DW-AS-713-M8</i>	\$84.00					PNP		Diagram 4	Figure 3			
<i>DW-AD-712-M8</i>	\$84.00				NC	6mm (0.236 in)	Unshielded	2m (6.5') axial cable	NPN	2m (6.5') axial cable	Diagram 1	Figure 1
<i>DW-AD-714-M8</i>	\$84.00								PNP		Diagram 2	Figure 1
<i>DW-AS-712-M8-001</i>	\$84.00							NPN	M8 quick disconnect	Diagram 3	Figure 2	
<i>DW-AS-714-M8-001</i>	\$84.00							PNP		Diagram 4	Figure 2	
<i>DW-AS-712-M8</i>	\$84.00							NPN	M12 quick disconnect	Diagram 3	Figure 3	
<i>DW-AS-714-M8</i>	\$84.00							PNP		Diagram 4	Figure 3	

## Dimensions

mm [inches]

Figure 1

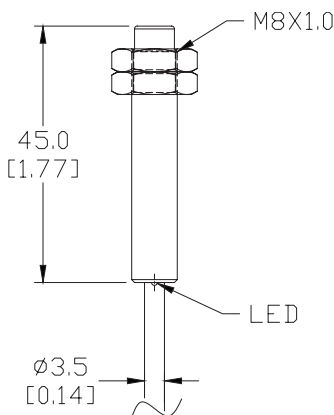


Figure 2

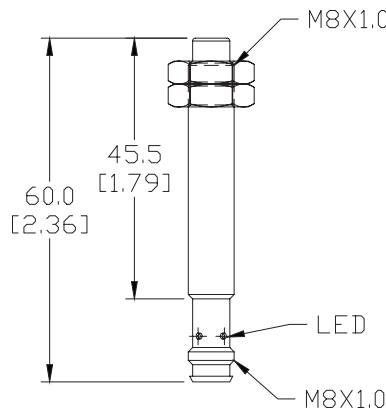
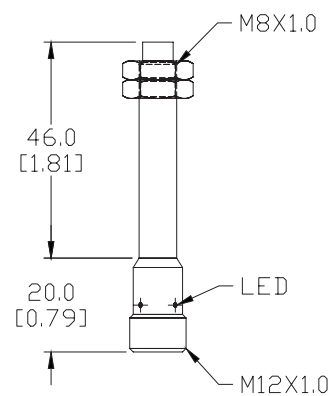


Figure 3



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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

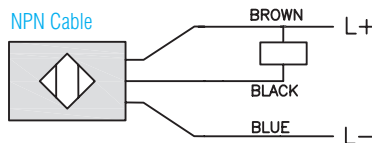


Diagram 2

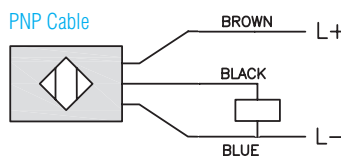


Diagram 3

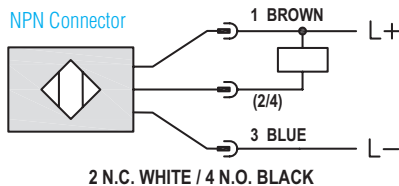
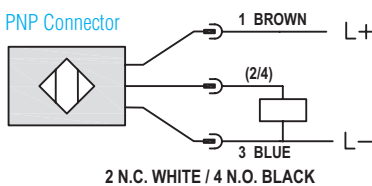
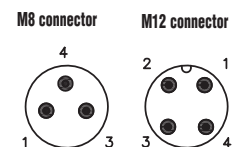


Diagram 4



## 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.

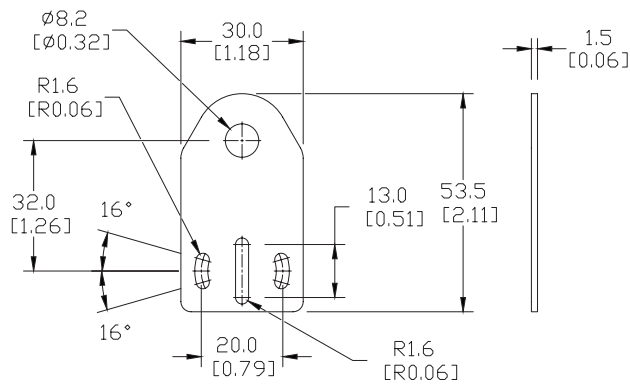


**ST08A**

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.

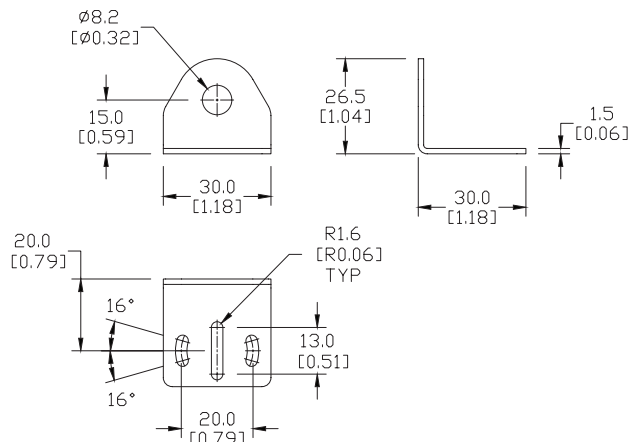


**ST08C**

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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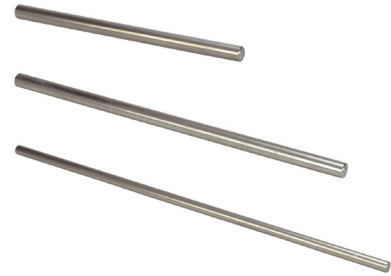


# Mounting Rods

## Mounting Rods

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

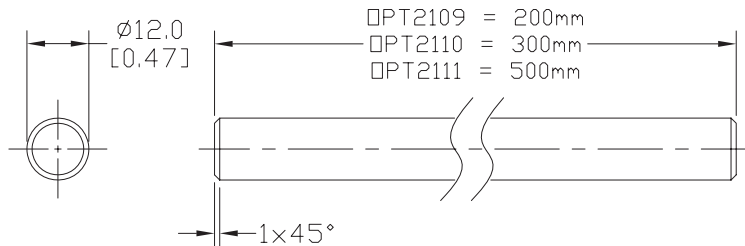
Mounting Rods for OPT2112-2127 Swivel Mounting Brackets			
Part Number	Price	Description	Weight [lb]
<b>OPT2109</b>	\$10.00	Mounting rod, 12mm diameter, 200mm length, 304 stainless steel.	0.41
<b>OPT2110</b>	\$12.00	Mounting rod, 12mm diameter, 300mm length, 304 stainless steel.	0.60
<b>OPT2111</b>	\$16.00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

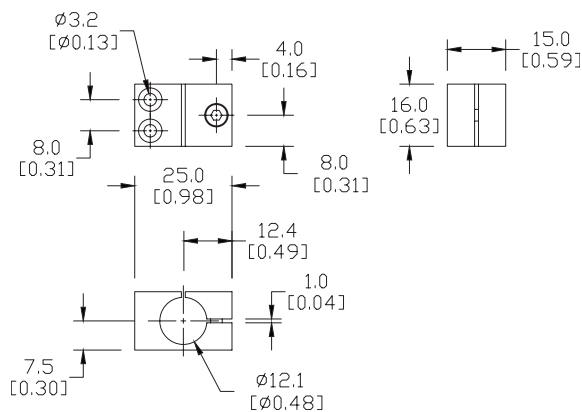
Accessories for 12mm Sensors			
Part Number	Price	Description	Weight [lb]
<b>OPT2108</b>	\$12.00	Mounting bracket, right-angle, nickel-plated brass. For use with 12mm mounting rods OPT2109, OPT2110 & OPT2111.	0.07



**OPT2108**

## Dimensions

mm [inches]



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