

DW Series 30mm Triple Sensing Proximity Sensors

M30 (30mm) Chrome Plated Brass – DC



- Sixteen models available
- 30mm threaded triple distance proximity sensor
- 22mm and 40mm sensing
- Complete overload protection
- IP67 rated
- Two M30 lock nuts included
- Chrome plated brass construction
- LED status indicator
- Lifetime warranty



DW Series 30mm Stainless Steel Triple Distance Inductive Prox Selection Chart									
Part Number	Price	Size	Sensing Range	Housing	Output State	Logic	Connection	Wiring	Dimensions
Triple Distance Shielded									
DW-AD-501-M30	\$58.00	M30	22mm (0.866 in)	Shielded	NO	NPN	2m (6.5') axial cable	Diagram 1	Figure 1
DW-AD-503-M30	\$58.00					PNP		Diagram 2	Figure 1
DW-AS-501-M30-002	\$58.00					NPN	M12 quick disconnect	Diagram 3	Figure 3
DW-AS-503-M30-002	\$58.00					PNP		Diagram 4	Figure 3
DW-AD-502-M30	\$58.00				NC	NPN	2m (6.5') axial cable	Diagram 1	Figure 1
DW-AD-504-M30	\$58.00					PNP		Diagram 2	Figure 1
DW-AS-502-M30-002	\$58.00					NPN	M12 quick disconnect	Diagram 3	Figure 3
DW-AS-504-M30-002	\$58.00					PNP		Diagram 4	Figure 3
Triple Distance Unshielded									
DW-AD-511-M30	\$62.00	M30	40mm (1.574 in)	Unshielded	NO	NPN	2m (6.5') axial cable	Diagram 1	Figure 2
DW-AD-513-M30	\$62.00					PNP		Diagram 2	Figure 2
DW-AS-511-M30-002	\$62.00					NPN	M12 quick disconnect	Diagram 3	Figure 4
DW-AS-513-M30-002	\$62.00					PNP		Diagram 4	Figure 4
DW-AD-512-M30	\$62.00				NC	NPN	2m (6.5') axial cable	Diagram 1	Figure 2
DW-AD-514-M30	\$62.00					PNP		Diagram 2	Figure 2
DW-AS-512-M30-002	\$62.00					NPN	M12 quick disconnect	Diagram 3	Figure 4
DW-AS-514-M30-002	\$62.00					PNP		Diagram 4	Figure 4

Wiring diagrams

Diagram 1

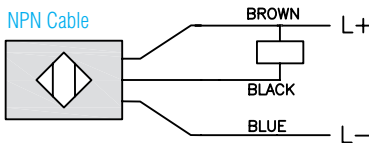


Diagram 2

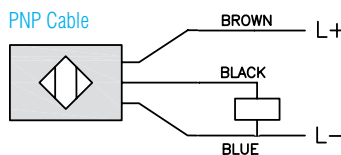


Diagram 3

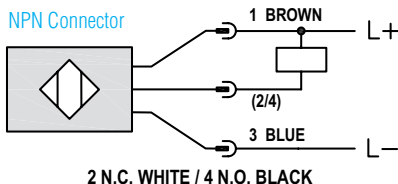
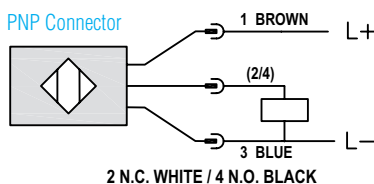
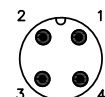


Diagram 4



Connectors

M12 connector



DW Series 30mm Triple Sensing Proximity Sensors

DW Series Specifications		
	<i>DW-Ax-50x-M30</i>	<i>DW-Ax-51x-M30</i>
Mounting Type	shielded	unshielded
Nominal Sensing Distance	22mm	40mm
Operating Distance	NA	
Material Correction Factors	See the Material influence table	
Output Type	NPN or PNP, NO or NC	
Operating Voltage	10 to 30 VDC	
No-load Supply Current	≤ 10mA	
Operating (Load) Current	≤ 200mA	
Off-state (Leakage) Current	≤ 0.1 mA	
Voltage Drop	≤ 2 V	
Switching Frequency	≤ 200 Hz	≤ 100Hz
Differential Travel (% of Nominal Distance)	≤ 10%	
Repeat Accuracy	1.1 mm	2.0 mm
Ripple	≤ 20%	
Time Delay Before Availability (tv)	≤ 200ms	
Reverse Polarity Protection	Yes	
Short-Circuit Protection	Yes	
Operating Temperature	-25 to 70°C (-13 to 158°F)	
Protection Degree (DIN 40050)	IP67	
Indication/Switch Status	Yellow LED	
Housing Material	Chrome plated brass	
Sensing Face Material	PBT (Polybutylene terephthalate)	
Shock/Vibration	IEC 60947-5-2/7.4	
Tightening Torque	--	
Weight	215g (7.58 oz), 155g (5.47 oz)	212g (7.48 oz), 143g (5.04 oz)
Connection	2m cable, M12 connection	
IO-Link	NA	
Agency Approvals	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

DW Series 30mm Triple Sensing Proximity Sensors

Dimensions

mm [inches]

Figure 1

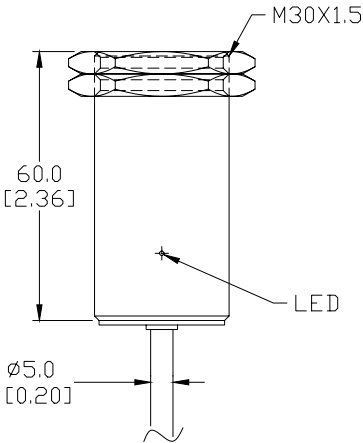


Figure 2

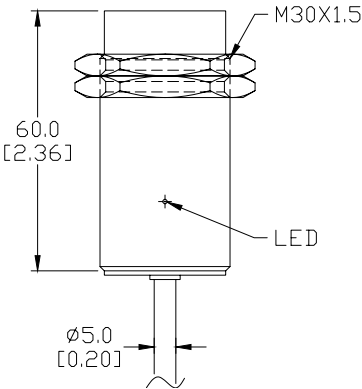


Figure 3

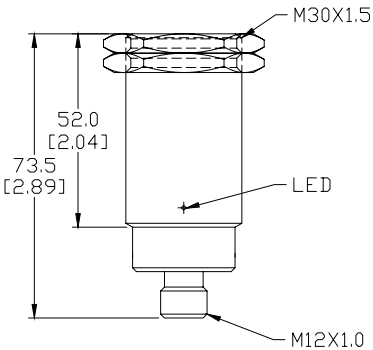
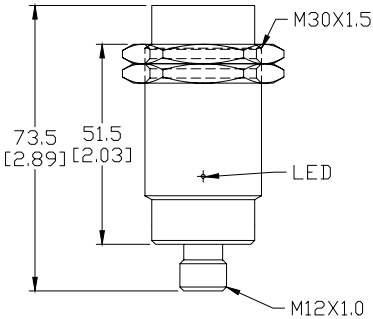


Figure 4



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Accessories for 30mm Sensors

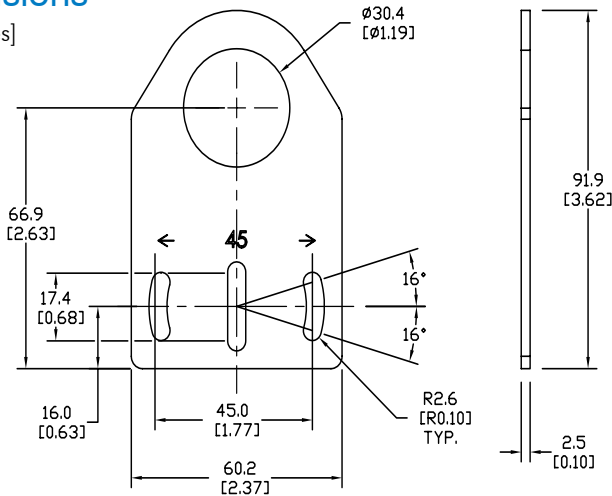
Axial Mounting Bracket

Mounting bracket, axial, zinc-plated steel. For use with 30mm sensors. Has two mounting holes (use 5mm screws) and allows the rotation of an optical axis for right-beam-angle-adaptor sensors. Hexagonal nuts not included.

Accessories for 30mm Sensors			
Part Number	Price	Description	Weight [lb]
ST30A	\$2.25	Mounting bracket, axial, zinc-plated steel. For use with 30mm sensors. 1/pk.	0.18

Dimensions

mm [inches]



ST30A

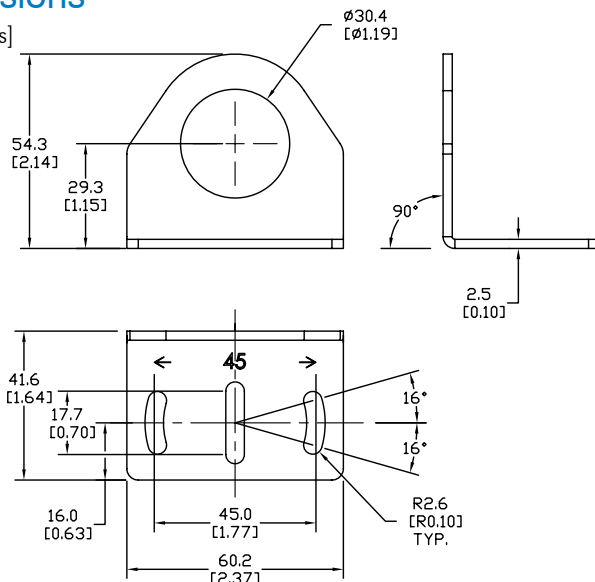
Right-angle Mounting Bracket

Mounting bracket, right-angle, zinc-plated steel. For use with 30mm sensors. Has two mounting holes (use 5mm screws) and allows the rotation of an optical axis for axial sensors. Hexagonal nuts not included.

Accessories for 30mm Sensors			
Part Number	Price	Description	Weight [lb]
ST30C	\$2.25	Mounting bracket, right angle, zinc-plated steel. For use with 30mm sensors. 1/pk.	0.18

Dimensions

mm [inches]



ST30C

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Accessories for 30mm Sensors

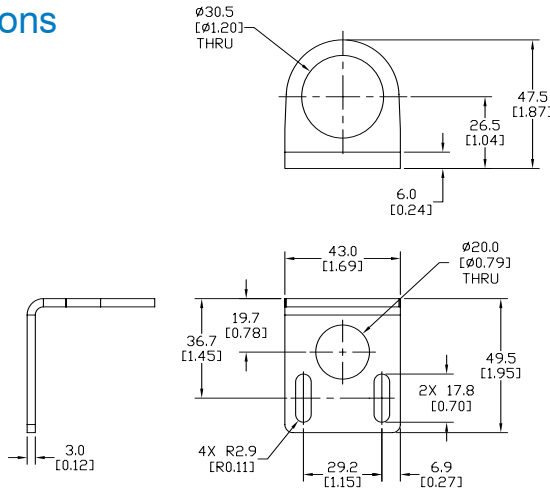
Right-angle Mounting Bracket

Mounting bracket, right-angle, 304 stainless steel. For use with 30mm sensors.

Accessories for FW Series Sensors			
Part Number	Price	Description	Weight [lb]
ST30C6W	\$2.50	Mounting bracket, right angle, 304 stainless steel. For use with 30mm sensors.	0.15

Dimensions

mm [inches]



ST30C6W

Right-angle Swivel Mounting Systems

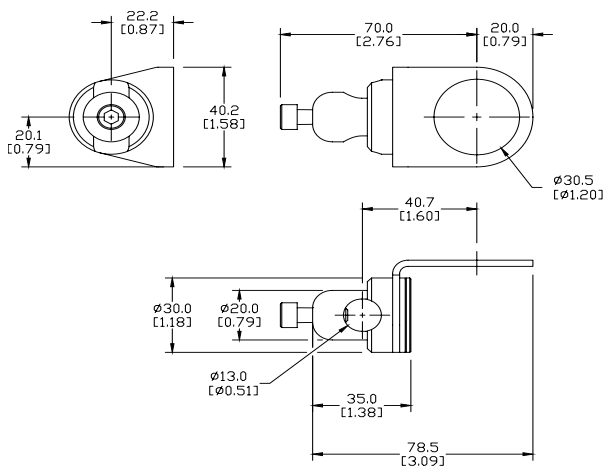
Mounting bracket, right-angle swivel, 360 degree vertical and horizontal adjustment, 12mm rod mount. For use with 30mm sensors. Available in all 304 stainless steel or with an aluminum head with a 304 stainless steel mounting plate.

Accessories for 30mm Sensors					
Part Number	Price	Description	Mounting Head	Mounting Plate	Weight [lb]
OPT2118	\$9.00	Mounting bracket, right-angle swivel, 360 vertical and horizontal adjustment, aluminum, 12mm rod mount. For use with 30mm sensors.	Aluminum	304 Stainless Steel	0.18
OPT2119	\$16.00	Mounting bracket, right-angle swivel, 360 vertical and horizontal adjustment, 304 stainless steel, 12mm rod mount. For use with 30mm sensors.	304 Stainless Steel	304 Stainless Steel	0.30

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

Dimensions

mm [inches]



OPT2118, OPT2119

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.

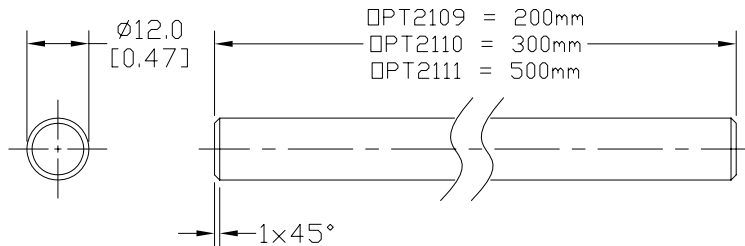
Mounting Rods for OPT2112-2127 Swivel Mounting Brackets			
Part Number	Price	Description	Weight [lb]
OPT2109	\$10.00	Mounting rod, 12mm diameter, 200mm length, 304 stainless steel.	0.41
OPT2110	\$12.00	Mounting rod, 12mm diameter, 300mm length, 304 stainless steel.	0.60
OPT2111	\$16.00	Mounting rod,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

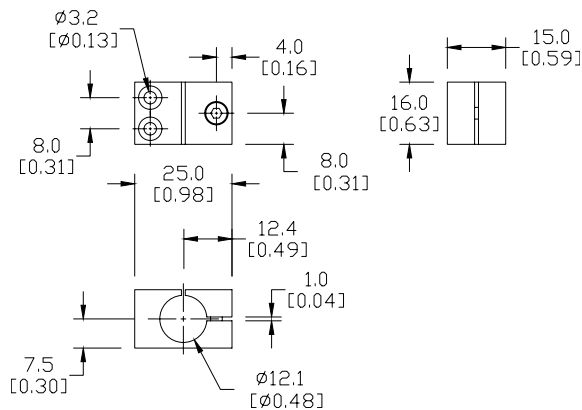
Accessories for 12mm Sensors			
Part Number	Price	Description	Weight [lb]
OPT2108	\$12.00	Mounting bracket, right-angle, nickel-plated brass. For use with 12mm mounting rods OPT2109, OPT2110 & OPT2111.	0.07



OPT2108

Dimensions

mm [inches]



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