

CONTRINEX DW Series 12mm Quadruple **Sensing Proximity Sensors**

M12 (12mm) Chrome Plated Brass – DC

- 12mm threaded Quadruple Distance proximity sensor
- 8mm sensing
- Complete overload protection
- IP67 rated
- Chrome plated brass construction
- LED status indicator
- Lifetime warranty



	DW Series M12 Quadruple Distance Inductive Proximity Selection Chart								
Part Number	Price	Size	Sensing Range	Mounting	Output State	Logic	Connection	Wiring	Dimensions
DW-AD-521-M12	\$;3,06:				N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 1
DW-AD-523-M12	\$;3,07:		8mm [0.315 in]	5 in] Semi-flush	N.O.	PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 1
DW-AS-521-M12	\$;3,09:				N.O.	NPN	M12 quick-disconnect	Diagram 3	Figure 2
DW-AS-523-M12	\$;3,0b:	M12			N.O.	PNP	M12 quick-disconnect	Diagram 4	Figure 2
DW-AD-524-M12	\$;3,08:				N.C.	PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 1
DW-AS-522-M12	\$;3,0a:	1			N.C.	NPN	M12 quick-disconnect	Diagram 3	Figure 2
DW-AS-524-M12	\$;3,0c:	1			N.C.	PNP	M12 quick-disconnect	Diagram 4	Figure 2

Wiring Diagrams

Diagram 1

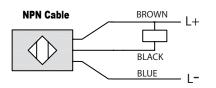


Diagram 2

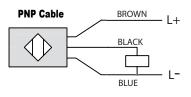
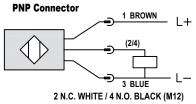






Diagram 3 NPN Connector 1 BROWN L+ (2/4) 3 BLUE 5 Т 2 N.C. WHITE / 4 N.O. BLACK (M12)





Tor the latest prices, please che DW Series 12mm Quadruple Sensing Proximity Sensors

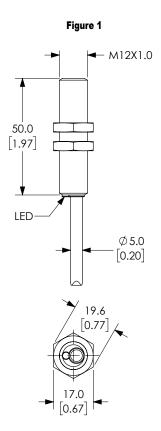
DW Series M12 Quadruple Distance Inductive Proximity Specifications					
	DW-Ax-52x-M12				
Mounting Type	Semi-flush				
Nominal Sensing Distance	8mm [0.315 in]				
Operating Distance	-				
Material Correction Factors	See the Material influence table				
Output Type	NPN or PNP, N.O. or N.C.				
Operating 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	≤ 400Hz				
Differential Travel (% of Nominal Distance)	≤ 10%				
Repeat Accuracy	0.15 mm				
Ripple	≤ 20%				
Time Delay Before Availability (tv)	50ms				
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 [LED on continuously - secured operating zone]				
Housing Material	Chrome-plated brass				
Sensing Face Material	Polybutylene terephthalate				
Shock/Vibration	IEC 60947-5-2/7.4				
Tightening Torque	20 N•m [177.02 lb•in] [5 N•m (44.25 lb•in) on 0.8 mm from head]				
Weight	92g [3.25 oz] with cable, 26g [0.92 oz] without cable				
Connection	2m [6.5 ft] cable (PVC [polyvinyl chloride] 3 x 0.14mm ² ≈ approx 26 AWG) with M12 connection				
Minimum Mounting Distance (center to center)	46.0 mm [1.81 in]				
IO-Link	-				
Agency Approvals	CE, cULus E239373				

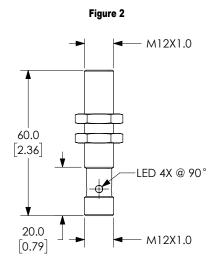
To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

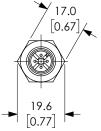
1-800-633-0405 **DW Series 12mm Quadruple Sensing Proximity Sensors**

Dimensions

mm [inches]







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

Accessories for 12mm Sensors

Axial Mounting Bracket

Mounting bracket, axial, available in zinc-plated steel or 316L stainless steel. For use with 12mm sensors. Has two mounting holes (use 3mm screws) and allows the rotation of an optical axis for right-angle adapter sensors. Hexagonal nuts not included.

Accessories for 12mm Sensors						
Part Number	Price	Description	Drawing Link	Weight Ib [g]		
<u>ST12A</u>	\$97_:	Micro Detectors mounting bracket, axial, zinc plated steel. For use with 12mm sensors.	PDF	0.03 [13.6]		
<u>ST12A7W</u>	\$97#:	Micro Detectors mounting bracket, axial, 316L stainless steel. For use with 12mm sensors.	PDF	0.03 [13.6]		



<u>ST12A</u>

Right-angle Mounting Bracket

Mounting bracket, right-angle, zinc-plated steel or 316L stainless steel. For use with 12mm sensors. Has two mounting holes (use 3mm screws) and allows the rotation of an optical axis for axial sensors. Hexagonal screws not included.

Accessories for 12mm Sensors							
Part Number Price Description				Weight Ib [g]			
<u>ST12C</u>	\$;97!:	Micro Detectors mounting bracket, right-angle, zinc plated steel. For use with 12mm sensors.		0.03 [13.6]			
<u>ST12C7W</u>	\$97?:	Micro Detectors mounting bracket, right-angle, 316L stainless steel. For use with 12mm sensors.	<u>PDF</u>	0.03 [13.6]			



<u>ST12C</u>

Accessories for 12mm Sensors

Right-angle Mounting Brackets

Mounting bracket, right-angle, fixed insertion stop adjustment, plastic. For use with 12mm sensors. Available with or without fixed insertion stop.

	Accessories for 12mm Sensors							
Part Number	Price	Description	Drawing Link	Weight Ib [g]				
<u>OPT2102</u>	\$-1nlq:	Wenglor mounting bracket, right-angle, fixed insertion stop adjustment, plastic. For use with 12mm sensors.	PDF	0.05 [22.7]				
<u>OPT2103</u>	\$-1nls:	Wenglor mounting bracket, right-angle, plastic. For use with 12mm sensors.	<u>PDF</u>	0.05 [22.7]				



Right-angle Swivel Mounting Systems

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

	Accessories for 12mm Sensors								
Part Number	Price	Description	Mounting Head	Mounting Plate	Drawing Link	Weight Ib [g]			
<u>OPT2114</u>	\$;-1nl[:	Wenglor mounting bracket, right-angle swivel, 360 degree vertical and horizontal adjustment, aluminum, 12mm rod mount. For use with 12mm sensors.	Aluminum	Stainless steel	<u>PDF</u>	0.14 [63.5]			
<u>OPT2115</u>	\$-1nl_:	Wenglor mounting bracket, right-angle swivel, 360 degree vertical and horizontal adjustment, 304 stainless steel, 12mm rod mount. For use with 12mm sensors.	304 Stainless steel	304 Stainless steel	<u>PDF</u>	0.27 [122.5]			



Note: 304 stainless steel mounting rods sold separately: <u>OPT2109</u> (200mm [7.87 in] length), <u>OPT2110</u> (300mm [11.81 in] length), and <u>OPT2111</u> (500mm [19.69 in] length).

OPT2114, OPT2115

1-800-633-0405 Mounting Rods and Brackets

Mounting Rods

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

M	Mounting Rods for OPT2112-2127 Swivel Mounting Brackets							
Part Number	rt Number Price Description			Weight Ib (g)				
<u>OPT2109</u>	\$1nn9:	Wenglor mounting rod, 12mm diameter, 200mm length, 304 stainless steel.	PDF	0.41 [185.97]				
<u>OPT2110</u>	\$1nna:	Wenglor mounting rod, 12mm diameter, 300mm length, 304 stainless steel.	PDF	0.60 [272.16]				
<u>OPT2111</u>	\$1nnb:	Wenglor mounting rod, 12mm diameter, 500mm length, 304 stainless steel.	PDF	0.98 [444.52]				



Right-angle Mounting Bracket

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

Right-angle Mounting Brackets for 12mm Sensors							
Part Number Price Description		Drawing Link	Weight Ib [g]				
<u>OPT2108</u>	\$-1nly:	Wenglor mounting bracket, right-angle, nickel-plated brass. For use with 12mm mounting rods OPT2109, OPT2110 & OPT2111.	<u>PDF</u>	0.07 [31.8]			

