No.



DW Series 8mm Triple Sensing Proximity Sensors

Miniature M8 (8mm) Chrome Plate Nickel Silver or Chrome Plated Brass – DC

- 8mm threaded Triple Distance proximity sensor
- Complete overload protection
- IP67 rated
- Two M8 lock nuts included
- Chrome plate nickel silver or chrome plated brass construction
- LED status indicator
- Lifetime warranty



	DW S	eries	M8 Triple	Distance Ind	luctive	Proximity	Selection Char		
Part Number	Price	Size	Sensing Range	Mounting	Output State	Logic	Connection	Wiring	Dimensions
Triple Distance Semi-flush	Triple Distance Semi-flush								
DW-AD-501-M8	\$119z:	M8	3mm [0.118 in]	Semi-flush	N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 1
<u>DW-AD-503-M8</u>	\$;119]:	M8	3mm [0.118 in]	Semi-flush	N.O.	PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 1
DW-AS-501-M8-001	\$119x:	M8	3mm [0.118 in]	Semi-flush	N.O.	NPN	M8 quick-disconnect	Diagram 3	Figure 2
DW-AS-503-M8-001	\$119y:	M8	3mm [0.118 in]	Semi-flush	N.O.	PNP	M8 quick-disconnect	Diagram 4	Figure 2
DW-AS-501-M8	\$;119[:	M8	3mm [0.118 in]	Semi-flush	N.O.	NPN	M12 quick-disconnect	Diagram 3	Figure 3
DW-AS-503-M8	\$119_:	M8	3mm [0.118 in]	Semi-flush	N.O.	PNP	M12 quick-disconnect	Diagram 4	Figure 3
DW-AD-502-M8	\$119?:	M8	3mm [0.118 in]	Semi-flush	N.C.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 1
DW-AD-504-M8	\$;119,:	M8	3mm [0.118 in]	Semi-flush	N.C.	PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 1
DW-AS-502-M8-001	\$119#:	M8	3mm [0.118 in]	Semi-flush	N.C.	NPN	M8 quick-disconnect	Diagram 3	Figure 2
DW-AS-504-M8-001	\$;119!:	M8	3mm [0.118 in]	Semi-flush	N.C.	PNP	M8 quick-disconnect	Diagram 4	Figure 2
DW-AS-502-M8	\$11a0:	M8	3mm [0.118 in]	Semi-flush	N.C.	NPN	M12 quick-disconnect	Diagram 3	Figure 3
DW-AS-504-M8	\$11a1:	M8	3mm [0.118 in]	Semi-flush	N.C.	PNP	M12 quick-disconnect	Diagram 4	Figure 3
Triple Distance Non-flush									
DW-AD-511-M8	\$11a3:	M8	6mm [0.236 in]	Non-flush	N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 1
DW-AD-513-M8	\$11a2:	M8	6mm [0.236 in]	Non-flush	N.O.	PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 1
DW-AS-511-M8-001	\$11a5:	M8	6mm [0.236 in]	Non-flush	N.O.	NPN	M8 quick-disconnect	Diagram 3	Figure 2
DW-AS-513-M8-001	\$11a4:	M8	6mm [0.236 in]	Non-flush	N.O.	PNP	M8 quick-disconnect	Diagram 4	Figure 2
DW-AS-511-M8	\$11a7:	M8	6mm [0.236 in]	Non-flush	N.O.	NPN	M12 quick-disconnect	Diagram 3	Figure 3
DW-AS-513-M8	\$11a6:	M8	6mm [0.236 in]	Non-flush	N.O.	PNP	M12 quick-disconnect	Diagram 4	Figure 3
DW-AD-514-M8	\$11a8:	M8	6mm [0.236 in]	Non-flush	N.C.	PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 1
DW-AS-512-M8-001	\$11ab:	M8	6mm [0.236 in]	Non-flush	N.C.	NPN	M8 quick-disconnect	Diagram 3	Figure 2
DW-AS-514-M8-001	\$11aa:	M8	6mm [0.236 in]	Non-flush	N.C.	PNP	M8 quick-disconnect	Diagram 4	Figure 2
DW-AS-512-M8	\$11ad:	M8	6mm [0.236 in]	Non-flush	N.C.	NPN	M12 quick-disconnect	Diagram 3	Figure 3
DW-AS-514-M8	\$11ac:	M8	6mm [0.236 in]	Non-flush	N.C.	PNP	M12 quick-disconnect	Diagram 4	Figure 3

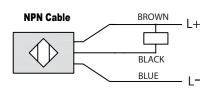
1-800-633-0405 **DW Series 8mm Triple Sensing Proximity Sensors**

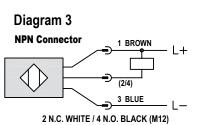
DW Series M8 Triple Distance Inductive Proximity Specifications							
Sensor	DW-Ax-50x-M8	DW-Ax-51x-M8					
Mounting Type	Semi-flush	Non-flush					
Nominal Sensing Distance	3mm	6mm					
Operating Distance	-						
Material Correction Factors	See the Material	influence table					
Output Type	NPN or PNP,	N.O. or N.C.					
Operating Voltage	10 to 30) VDC					
No-load Supply Current	≤ 10	mA					
Operating (Load) Current	≤ 100	DmA					
Off-state (Leakage) Current	≤ 0.1	mA					
Voltage Drop	≤ 2	2 V					
Switching Frequency	≤ 1kHz	≤ 500Hz					
Differential Travel (% of Nominal Distance)	≤ 15%						
Repeat Accuracy	0.15 mm	0.30 mm					
Ripple	≤ 20%						
Time Delay Before Availability (tv)	≤ 50ms						
Reverse Polarity Protection	Ye	s					
Short-Circuit Protection	Ye	s					
Operating Temperature	-25 to 70°C [-	13 to 158°F]					
Protection Degree (DIN 40050)	IP6	57					
Indication/Switch Status	Yellow	LED					
Housing Material	Nickel silver	Chrome plated brass					
Sensing Face Material	PPS [Polypher	ylene sulfide]					
Shock/Vibration	IEC 6094	7-5-2/7.4					
Tightening Torque	-						
Weight	45g [1.59 oz], 20g [0.71 oz], 17g [0.60 oz]	44g [1.55 oz], 19g [0.67 oz],16g [0.56 oz]					
Connection	2m [6.5 ft] cable, M12 connection, M8 connection						
IO-Link	-						
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.

Wiring Diagrams

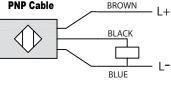
Diagram 1

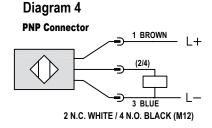




PNP Cable

Diagram 2





Connectors

M8 connector



M12 connector



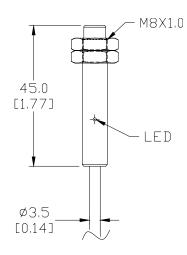
1-800-633-0405 **DW Series 8mm Triple Sensing Proximity Sensors**

Dimensions

mm [inches]

Figure 1

Figure 2



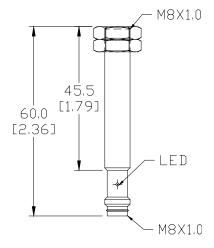
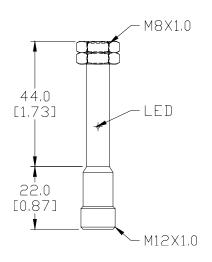


Figure 3



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

1-800-633-0405 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.

Accessories for 8mm Sensors						
Part Number	Price	Description	Drawing Link	Weight [lb]		
<u>ST08A</u>	\$;10#t:	Micro Detectors mounting bracket, axial, zinc plated steel. For use with 8mm sensors.	PDF	0.04		





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-adapter sensors. Hexagonal nuts not included.

Accessories for 8mm Sensors						
Part Number Price Description		Drawing Link	Weight [lb]			
<u>ST08C</u>	\$10#u:	Micro Detectors mounting bracket, right-angle, zinc plated steel. For use with 8mm sensors.	PDF	0.04		



<u>ST08C</u>

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	Drawing Link	Weight [lb]	
<u>OPT2101</u>	\$-1nlp:	Wenglor mounting bracket, right-angle, plastic. For use with 8mm sensors.	PDF	0.02	



<u>OPT2101</u>

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	Drawing Link	Weight [lb]			
<u>OPT2112</u>	\$-1nlz:	Wenglor mounting bracket, right-angle swivel, 360 degree vertical and horizontal adjustment, aluminum, 12mm rod mount. For use with 8mm sensors.	Aluminum	304 Stainless Steel	<u>PDF</u>	0.14			
<u>OPT2113</u>	\$;-1nl]:	Wenglor mounting bracket, right-angle swivel, 360 degree vertical and horizontal adjustment, 304 stainless steel, 12mm rod mount. For use with 8mm sensors.	304 Stainless Steel	304 Stainless Steel	<u>PDF</u>	0.26			



<u>OPT2112</u> & <u>OPT2113</u>

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

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	art Number Price Description		Drawing Link	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]			

