DW Series Analog Inductive Proximity Sensors



M8 (8mm) Metal – Analog Output

- · Compact metal housing
- Axial cable or M8 quick-disconnect models
- IP67 rated
- Purchase cables separately (for quick-disconnect model)
- Lifetime warranty



DW Series M8 Analog Inductive Proximity Selection Chart								
Part Number	Part Number Price Sensing Range Mounting Output Connection Wiring Dimensions							
DW-AD-509-M8	\$150.00		Semi-flush	0-5 VDC	2m [6.5 ft] axial cable	Diagram 1	Figure 1	
DW-AS-509-M8-001	\$150.00	0-4 mm	Semi-flush	0-5 VDC	M8 [8mm] quick-disconnect	Diagram 1	Figure 2	
DW-AD-509-M8-390	\$150.00	[0-0.157 in]	Semi-flush	0-10 VDC	2m [6.5 ft] axial cable	Diagram 1	Figure 1	
DW-AS-509-M8-390	\$150.00		Semi-flush	0-10 VDC	M8 [8mm] quick-disconnect	Diagram 1	Figure 2	

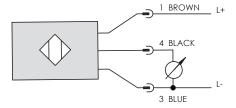
DW Series M8 Analog Inductive Proximity Specifications						
Specification	DW-Ax-509-M8	DW-Ax-509-M8-390				
Mounting Type	Semi-	flush				
Nominal Distance	0-4 mm [0-0.157 in]					
Operating Distance	NA					
Material Correction Factors	See the Material influence table					
Output Type	0-5 VDC	0-10 VDC				
Operating Voltage	10-30 VDC	15-30 VDC				
No-load Supply Current	≤ 10	mA				
Operating (Load) Current	≤ 10	mA				
Off-state (Leakage) Current	NA.	A				
Voltage Drop	≤ 2.0) V				
Switching Frequency	NA.	A				
Differential Travel (% of Nominal Distance)	NA					
Repeat Accuracy	±0.01 mm					
Ripple	≤20%					
Response Time	0.6 ms					
Time Delay Before Availability (tv)	≤ 50	ms				
Reverse Polarity Protection	Ye	S				
Short-Circuit Protection	Yes (switch auto-resets af	ter overload is removed)				
Operating Temperature	-25 to +70°C [-13 to 158°F]					
Protection Degree (DIN 40050)	IEC IP67					
Indication/Switch Status	NA.	A				
Housing Material	Chrome-pla	ated brass				
Sensing Face Material	Polybutylene Tere	phthalate (PBT)				
Shock/Vibration	IEC 609	47-5-2				
Tightening Torque	4 N•m (2.	95 lb•ft)				
Weight (cable/M8 connector)	50g [1.76 oz] /	20g [0.71 oz]				
Connection	2m [6.5 ft] axial cable or 3-	pin M8 (8mm) connector				
Agency Approvals	UL file E2	239373				

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

DW Series Analog Inductive Proximity Sensors

Wiring Diagram

Diagram 1

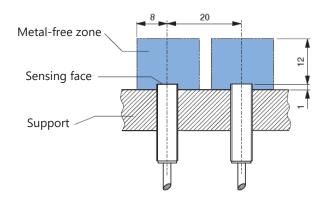


Connector



M8

Installation



Dimensions

mm [inches]

Figure 1

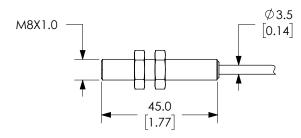
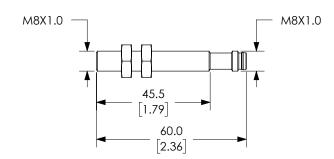


Figure 2



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]				
ST08A	\$2.00	Micro Detectors mounting bracket, axial, zinc plated steel. For use with 8mm sensors.	<u>PDF</u>	0.04				



ST08A

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 Draw		Drawing Link	Weight [lb]				
<u>ST08C</u>	\$2.00	Micro Detectors mounting bracket, right-angle, zinc plated steel. For use with 8mm sensors.	PDF	0.04			



ST08C

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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	Drawing Link	Weight [lb]		
<u>OPT2101</u>	\$8.00	Wenglor mounting bracket, right-angle, plastic. For use with 8mm sensors.	<u>PDF</u>	0.02		



OPT2101

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>	\$11.50	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>	\$21.00	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			



OPT2112 & OPT2113

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

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	Price	Description	Drawing Link	Weight lb (g)				
<u>OPT2109</u>	\$13.00	Wenglor mounting rod, 12mm diameter, 200mm length, 304 stainless steel.	PDF	0.41 [185.97]				
<u>OPT2110</u>	\$16.00	Wenglor mounting rod, 12mm diameter, 300mm length, 304 stainless steel.	PDF	0.60 [272.16]				
<u>OPT2111</u>	\$21.00	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 OPT2109, OPT2110 & OPT2111.

Right-angle Mounting Brackets for 12mm Sensors							
Part Nilmher Price lescrintion		Drawing Link	Weight Ib [g]				
<u>OPT2108</u>	\$16.00	Wenglor mounting bracket, right-angle, nickel-plated brass. For use with 12mm mounting rods OPT2109, OPT2110 & OPT2111.	<u>PDF</u>	0.07 [31.8]			



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