

## **CONTRINEX** DW Series 8mm Stainless Steel **Triple Sensing Proximity Sensors**



#### Miniature M8 (8mm) - DC

- 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 Proximity Selection Chart									
Part Number	Price	Size	Sensing Range	Mounting	Output State	Logic	Connection	Wiring	Dimensions	
DW-AD-711-M8	\$106.00			Non-flush	N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 1	
DW-AD-713-M8	\$106.00		6mm [0.236 in]	Non-flush	N.O.	PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 1	
DW-AS-711-M8-001	\$106.00			Non-flush	N.O.	NPN	M8 quick-disconnect	Diagram 3	Figure 2	
DW-AS-713-M8-001	\$106.00			Non-flush	N.O.	PNP	M8 quick-disconnect	Diagram 4	Figure 2	
DW-AS-711-M8	\$106.00			Non-flush	N.O.	NPN	M12 quick-disconnect	Diagram 3	Figure 3	
DW-AS-713-M8	\$106.00	M8		Non-flush	N.O.	PNP	M12 quick-disconnect	Diagram 4	Figure 3	
DW-AD-712-M8	\$106.00			Non-flush	N.C.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 1	
DW-AD-714-M8	\$106.00			Non-flush	N.C.	PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 1	
DW-AS-714-M8-001	\$106.00			Non-flush	N.C.	PNP	M8 quick-disconnect	Diagram 4	Figure 2	
DW-AS-714-M8	\$106.00			Non-flush	N.C.	PNP	M12 quick-disconnect	Diagram 4	Figure 3	

#### **Dimensions**

mm [inch]

Figure 1

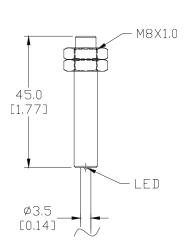


Figure 2

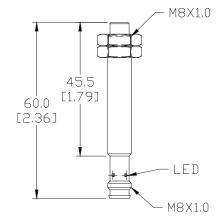
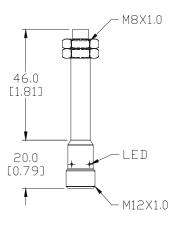


Figure 3



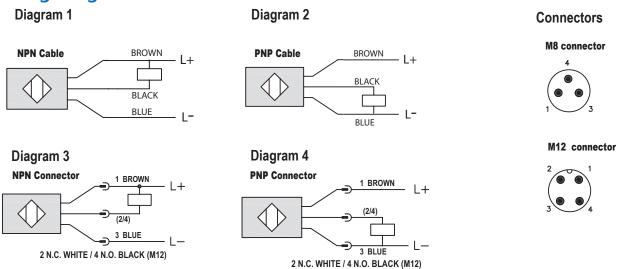
See our website www.AutomationDirect.com for complete engineering drawings.

# **DW Series 8mm Stainless Steel Triple Sensing Proximity Sensors**

DW Series M8 Triple Distance Inductive Proximity Specifications				
Sensor	DW-Ax-71x-M8-x			
Mounting Type	Non-flush			
Nominal Sensing Distance	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	≤10mA			
Operating (Load) Current	≤ 100mA			
Off-state (Leakage) Current	≤ 0.1 mA			
Voltage Drop	≤2 V			
Switching Frequency	≤ 700Hz			
Differential Travel (% of Nominal Distance)	≤ 15%			
Repeat Accuracy	0.30 mm			
Ripple	≤ 20%			
Time Delay Before Availability (tv)	≤ 70ms			
Reverse Polarity Protection	Yes			
Short-Circuit Protection	Yes			
Operating Temperature	-25 to 70°C [-13 to 158°F]			
Protection Degree (DIN 40050)	IP67, IP68			
Indication/Switch Status	Yellow LED			
Housing Material	Stainless steel			
Sensing Face Material	Stainless steel			
Shock/Vibration	IEC 60947-5-2/7.4			
Tightening Torque	-			
Weight	50g [1.73 oz], 18g [0.63 oz]			
Connection	2m [6.5 ft] cable, M8 connection, M12 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**



### **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	Part Number Price Description		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

### **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.	PDF	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.

Mounting Rods for OPT2112-2127 Swivel Mounting Brackets							
Part Number	Price	Description	Drawing Link	Weight Ib (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 Number	Part Number Price Description			Weight lb [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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