# **CONTRINEX** DW Series 8mm Quadruple **Sensing Proximity Sensors**

## M8 (8mm) chrome plated nickel silver – DC

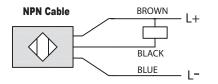
- 8mm threaded Quadruple Distance proximity sensor
- Complete overload protection
- IP67 rated
- Chrome plated nickel silver construction
- LED status indicator
- Lifetime warranty



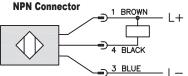
DW Series M8 Quadruple Distance Inductive Proximity Selection Chart									
Part Number	Price	Size	Sensing Range	Mounting	Output State	Logic	Connection	Wiring	Dimensions
DW-AD-521-M8	\$106.00			Semi-flush	N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 1
DW-AD-523-M8	\$106.00		4mm [0.158 in]	Semi-flush	N.O.	PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 1
DW-AS-521-M8	\$106.00			Semi-flush	N.O.	NPN	M12 quick-disconnect	Diagram 3	Figure 2
DW-AS-521-M8-001	\$106.00			Semi-flush	N.O.	NPN	M8 quick-disconnect	Diagram 3	Figure 3
DW-AS-523-M8	\$106.00			Semi-flush	N.O.	PNP	M12 quick-disconnect	Diagram 4	Figure 2
DW-AS-523-M8-001	\$106.00	M8		Semi-flush	N.O.	PNP	M8 quick-disconnect	Diagram 4	Figure 3
DW-AD-524-M8	\$106.00	]		Semi-flush	N.C.	PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 1
DW-AS-522-M8-001	\$106.00	]		Semi-flush	N.C.	NPN	M8 quick-disconnect	Diagram 3	Figure 3
DW-AS-524-M8	\$106.00	]		Semi-flush	N.C.	PNP	M12 quick-disconnect	Diagram 4	Figure 2
DW-AS-524-M8-001	\$106.00			Semi-flush	N.C.	PNP	M8 quick-disconnect	Diagram 3	Figure 3

## Wiring Diagrams

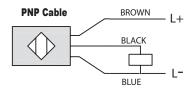
**Diagram 1** 



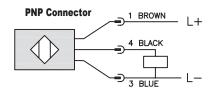
#### **Diagram 3**



#### Diagram 2



### Diagram 4



#### Connectors

M8 connector



M12 connector



## 1-800-633-0405 DW Series 8mm Quadruple Sensing Proximity Sensors

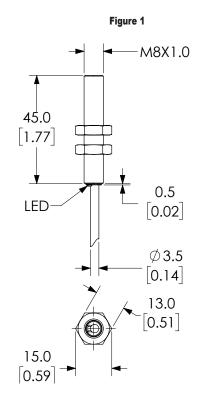
DW Series M8 Quadruple Distance Inductive Proximity Specifications					
Specifications	DW-Ax-52x-M8				
Mounting Type	Semi-flush				
Nominal Sensing Distance	4mm [0.158 in]				
Operating Distance	-				
Material Correction Factors	See the Material influence table				
Output Type	NPN or PNP, N.O. or N.C.				
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	≤ 500Hz				
Differential Travel (% of Nominal Distance)	≤ 15%				
Repeat Accuracy	0.2 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 nickel silver				
Sensing Face Material	Polybutylene terephthalate				
Shock/Vibration	IEC 60947-5-2/7.4				
Tightening Torque	7 N•m [61.96 lb•in]				
Weight	45g [1.59 oz] with cable, 20g [0.71 oz] with M12 connector, 17g [0.60 oz] with M8 connector				
Connection	2m [6.5 ft] cable (PVC [polyvinyl chloride] 3 x 0.14mm <sup>2</sup> ≈ 26 AWG) with M12 connection or M8 connection				
Minimum Mounting Distance (center to center)	24.0 mm [0.94 in]				
IO-Link	_				
Agency Approvals	CE, cULus E239373				

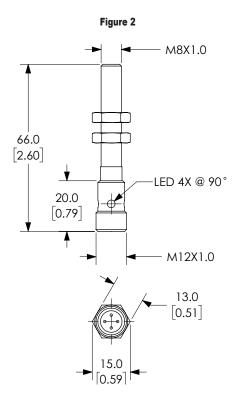
To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

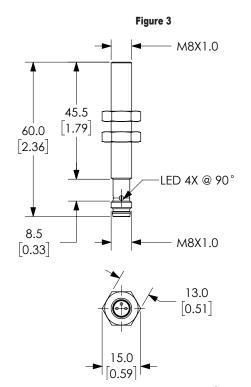
## 1-800-633-0405 **DW Series 8mm Quadruple Sensing Proximity Sensors**

## **Dimensions**

mm [inches]







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>	\$2.00	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	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.	<u>PDF</u>	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>	\$8.00	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>	\$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			



 OPT2113
 OPT2113
 OPT2112
 OPT2112
 OPT2112
 OPT2112
 OPT2112

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

(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	lumber 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 <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>	\$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]				

