DW Series Analog Inductive Proximity Sensors

8x8mm Rectangular Metal – Analog Output

- Compact 8mm x 8mm [0.31 in x 0.31 in] metal housing
- Axial cable or M8 quick-disconnect models
- IP67 rated
- Purchase cables separately (for quick-disconnect model)
- Lifetime warranty

DW Series C8 Analog Inductive Proximity Selection Chart							
Part Number	*Price*	*Sensing Range*	*Mounting*	*Output*	*Connection*	*Wiring*	*Dimensions*
DW-AD-509-C8-390	$169.00	0-4 mm [0-0.157 in]	Semi-flush	0-10 VDC	2m [6.5 ft] axial cable	Diagram 1	1
DW-AS-509-C8-390	$169.00	0-4 mm [0-0.157 in]	Semi-flush	0-10 VDC	M8 [8mm] quick-disconnect	Diagram 1	2

DW Series C8 Analog Inductive Proximity Specifications		
Specification	***DW-AD-509-C8-390***	***DW-AS-509-C8-390***
Mounting Type	Semi-flush	Semi-flush
Nominal Distance	0-4 mm [0-0.157 in]	0-4 mm [0-0.157 in]
Operating Distance	NA	NA
Material Correction Factors	See the Material influence table	See the Material influence table
Output Type	0-10 VDC	0-10 VDC
Operating Voltage	15-30 VDC	15-30 VDC
No-load Supply Current	≤ 10mA	≤ 10mA
Operating (Load) Current	≤10mA	≤ 10mA
Off-state (Leakage) Current	NA	NA
Voltage Drop	≤ 2.0 V	≤ 2.0 V
Switching Frequency	NA	NA
Differential Travel (% of Nominal Distance)	NA	NA
Repeat Accuracy	± 0.01 mm	± 0.01 mm
Ripple	≤ 20%	≤ 20%
Response Time	0.6 ms	0.6 ms
Time Delay Before Availability (tv)	≤ 50ms	≤ 50ms
Reverse Polarity Protection	Yes	Yes
Short-Circuit Protection	Yes (switch auto-resets after overload is removed)	Yes (switch auto-resets after overload is removed)
Operating Temperature	-25 to +70°C [-13 to 158°F]	-25 to +70°C [-13 to 158°F]
Protection Degree (DIN 40050)	IEC IP67	IEC IP67
Indication/Switch Status	NA	NA
Housing Material	Chrome-plated brass	Chrome-plated brass
Sensing Face Material	Polybutylene Terephthalate [PBT]	Polybutylene Terephthalate [PBT]
Shock/Vibration	IEC 60947-5-2	IEC 60947-5-2
Tightening Torque	4 N•m [2.95 lb•ft]	4 N•m [2.95 lb•ft]
Weight (cable/M8 connector)	50g [1.76 oz] / 20g [0.71 oz]	50g [1.76 oz] / 20g [0.71 oz]
Connection	2m [6.5 ft] axial cable	M8 [8mm] connector
Agency Approvals	UL file E239373	UL file E239373

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

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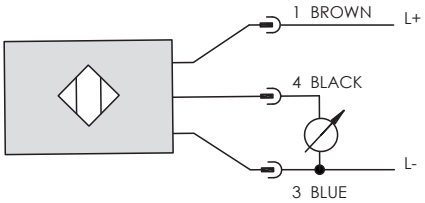
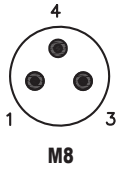
Wiring Diagram

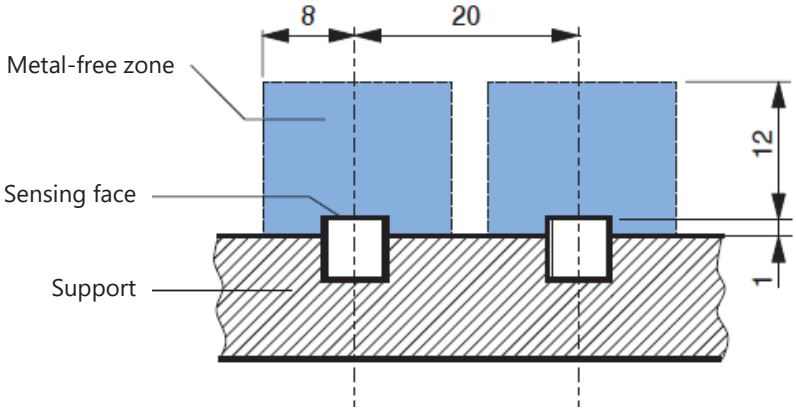
Diagram 1



Connector



Installation



Dimensions

mm [inches]

Figure 1

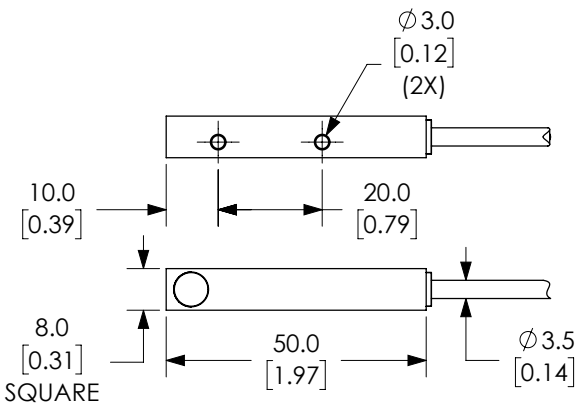
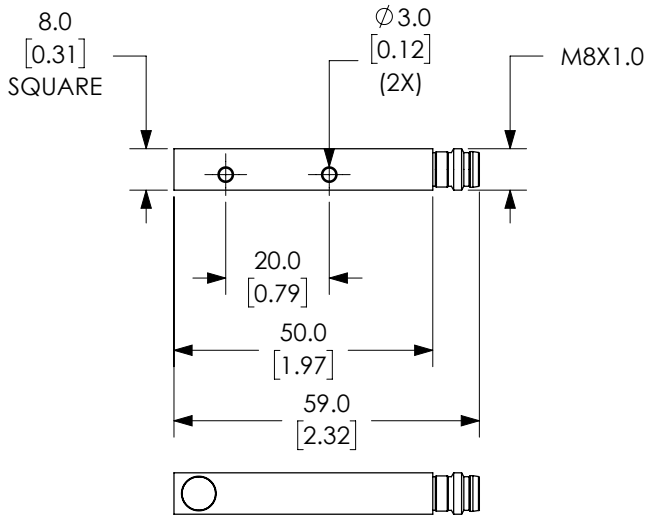



Figure 2