



DW Series M5 Stainless Steel Proximity Sensors

Miniature M5 (5mm) Stainless Steel – DC



- Complete overload protection
- Factor 1 on steel and aluminum
- IP67 rated
- Stainless steel construction
- Full metal housing
- LED status indicator
- IO-Link versions available
- Lifetime warranty



DW Series 5mm Extended Distance Inductive Proximity Selection Chart

Part Number	Price	Size	Sensing Range	Mounting	Output State	Logic	Connection	Wiring	Dimensions
Extended Distance									
DW-AD-711-M5	\$,-03,0l:	M5	3mm [0.118 in]	Non-flush	N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 1
DW-AV-711-M5-276 *	\$;03,0n:						M8 with 0.2 m cable	Diagram 3	Figure 2
DW-AD-713-M5	\$;03,0o:					PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 1
DW-AV-713-M5-276 *	\$;03,0p:						M8 with 0.2 m cable	Diagram 4	Figure 2

* IO-Link model

Wiring Diagrams

Diagram 1

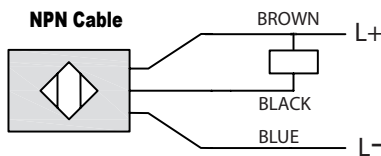
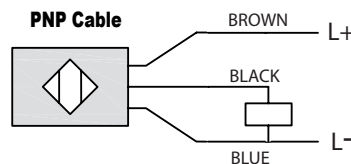


Diagram 2



Connectors

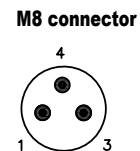


Diagram 3

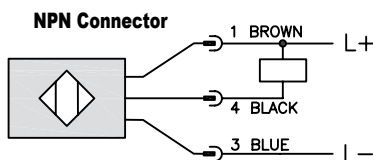
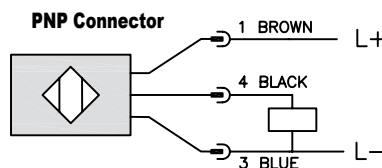


Diagram 4





DW Series M5 Stainless Steel Proximity Sensors

DW Series 5mm Extended Distance Inductive Proximity Specifications

Specification	DW-Ax-71x-M5
Mounting Type	Non-flush
Nominal Sensing Distance	3mm [0.118 in]
Operating Distance	—
Material Correction Factors	See the Material influence table
Output Type	NPN or PNP, N.O.
Operating Voltage	10 to 30 VDC
No-load Supply Current	≤ 10mA
Operating (Load) Current	≤ 200mA
Off-state (Leakage) Current	≤ 0.1 mA
Voltage Drop	≤ 2V
Switching Frequency	≤ 1200Hz
Differential Travel (% of Nominal Distance)	≤ 15%
Repeat Accuracy	0.15 mm
Ripple	≤ 20%
Time Delay Before Availability (tv)	≤ 30ms
Reverse Polarity Protection	Yes
Short-Circuit Protection	Yes
Operating Temperature	-25 to 85°C [-13 to 185°F]
Protection Degree (DIN 40050)	IP67
Indication/Switch Status	Yellow LED [LED on continuously - secured operating zone]
Housing Material	Stainless steel V2A
Sensing Face Material	Stainless steel V2A
Shock/Vibration	IEC 60947-5-2/7.4
Tightening Torque	1.5 N•m [13.3 lb•in]
Weight	30g [1.06 oz] with cable, 10g [0.35 oz] without cable
Connection	2m [6.5 ft] cable (PVC [polyvinyl chloride] 3 x 0.14mm ² ≈ 26 AWG) or 0.2 m cable (PVC [polyvinyl chloride]) with M8 connection
Minimum Mounting Distance (center to center)	40.0 mm [1.57 in]
IO-Link	PNP/N.O. version only
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.



DW Series M5 Stainless Steel Proximity Sensors

Dimensions

mm [inches]

Figure 1

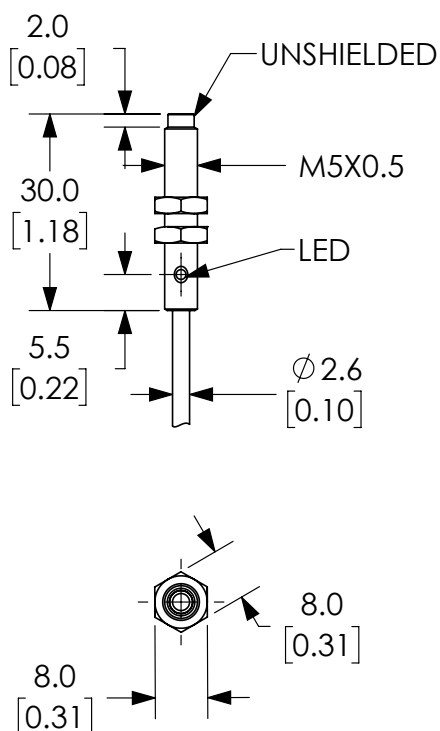
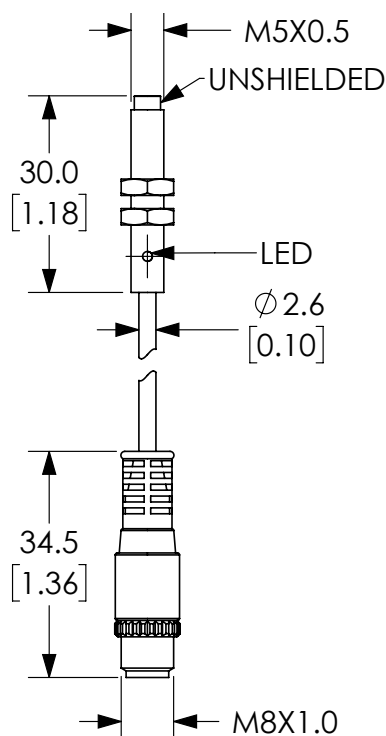


Figure 2



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

Accessories for 5mm Sensors

Right-angle Mounting Bracket

Mounting bracket, right-angle, plastic. For use with 5mm sensors.

Accessories for 5mm Sensors				
Part Number	Price	Description	Drawing Link	Weight [lb]
OPT2100	\$-1nlo:	Wenglor mounting bracket, right-angle, plastic. For use with 5mm sensors.	PDF	0.02



[OPT2100](#)