



# DW Series 4mm Stainless Steel Proximity Sensors



## Miniature (4mm) 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 4mm DC Inductive Proximity Selection Chart

Part Number	Price	Size	Sensing Range	Mounting	Output State	Logic	Connection	Wiring	Dimensions
<b>Extended Distance</b>									
<a href="#">DW-AD-711-04</a>	\$118.00	4mm	3mm [0.118 in]	Non-flush	N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 1
<a href="#">DW-AV-711-04-276</a>	\$118.00					NPN	M8 with 0.2 m cable	Diagram 3	Figure 2
<a href="#">DW-AD-713-04*</a>	\$118.00					PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 1
<a href="#">DW-AV-713-04-276*</a>	\$118.00					PNP	M8 with 0.2 m cable	Diagram 4	Figure 2

\* IO-Link model

## Wiring Diagrams

Diagram 1

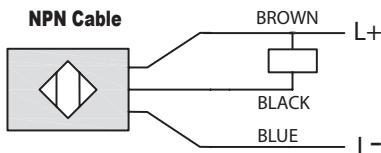
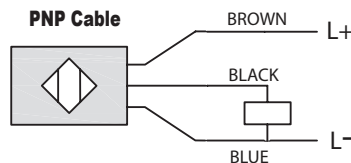


Diagram 2



Connectors

M8 connector

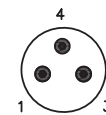


Diagram 3

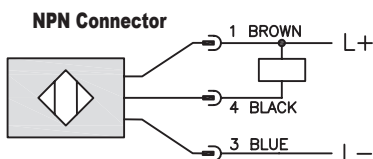
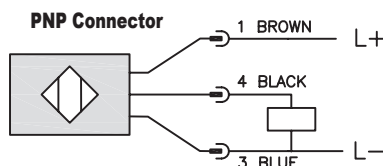


Diagram 4



# DW Series 4mm Stainless Steel Proximity Sensors

DW Series 4mm DC Inductive Proximity Specifications	
<b>Specifications</b>	<b>DW-Ax-71x-04</b>
<b>Mounting Type</b>	Non-flush
<b>Nominal Sensing Distance</b>	3mm [0.118 in]
<b>Operating Distance</b>	–
<b>Material Correction Factors</b>	See the <a href="#">Material influence table</a>
<b>Output Type</b>	NPN or PNP, N.O.
<b>Operating Voltage</b>	10 to 30 VDC
<b>No-load Supply Current</b>	≤ 10mA
<b>Operating (Load) Current</b>	≤ 200mA
<b>Off-state (Leakage) Current</b>	≤ 0.1 mA
<b>Voltage Drop</b>	≤ 2V
<b>Switching Frequency</b>	≤ 1200Hz
<b>Differential Travel (% of Nominal Distance)</b>	≤ 10%
<b>Repeat Accuracy</b>	0.15 mm
<b>Ripple</b>	≤ 20%
<b>Time Delay Before Availability (tv)</b>	≤ 10ms
<b>Reverse Polarity Protection</b>	Yes
<b>Short-Circuit Protection</b>	Yes
<b>Operating Temperature</b>	-25 to 85°C [-13 to 185°F]
<b>Protection Degree (DIN 40050)</b>	IP67
<b>Indication/Switch Status</b>	Yellow LED [LED on continuously - secured operating zone]
<b>Housing Material</b>	Stainless steel V2A
<b>Sensing Face Material</b>	Stainless steel V2A
<b>Shock/Vibration</b>	IEC 60947-5-2/7.4
<b>Tightening Torque</b>	25 N•m [221.27 lb•in]
<b>Weight</b>	29g [1.02 oz] with cable, 9g [0.32 oz] without cable
<b>Connection</b>	2m [6.5 ft] cable (PUR [polyurethane] 3 x 0.14mm <sup>2</sup> ≈ 26 AWG) or 0.2 m cable (PUR [polyurethane]) with M8 connection
<b>Minimum Mounting Distance (center to center)</b>	40.0 mm [1.57 in]
<b>IO-Link</b>	PNP/N.O. version only
<b>Agency Approvals</b>	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.

# DW Series 4mm Stainless Steel Proximity Sensors

## Dimensions

mm [inches]

Figure 1

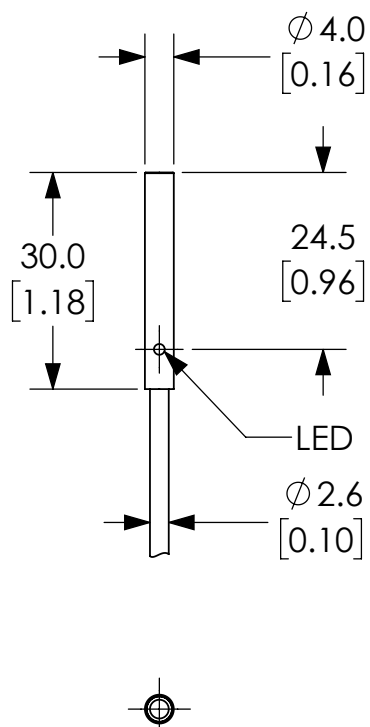
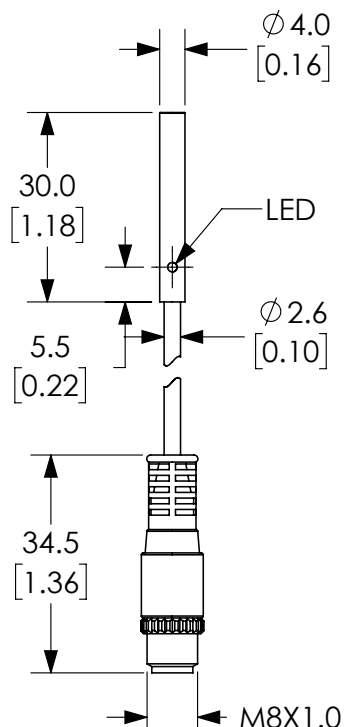


Figure 2

See our website [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete engineering drawings.

# Accessories for 4mm Sensors

## Right-angle Mounting Bracket

Mounting bracket, right-angle, plastic. For use with 4mm sensors.

Accessories for 4mm Sensors				
Part Number	Price	Description	Drawing Link	Weight [lb]
<a href="#">OPT2106</a>	\$8.00	Wenglor mounting bracket, right-angle, plastic. For use with 4mm sensors.	<a href="#">PDF</a>	0.02



[OPT2106](#)