

# DW Series 3mm Inductive Proximity Sensors



## Miniature Ø3 (3mm) – DC

- Four models available
- Complete overload protection
- IP67 rated
- Stainless steel construction
- LED status indicator
- Lifetime warranty



DW Series Ø3 (3mm) DC Inductive Prox Selection Chart									
Part Number	Price	Size	Sensing Range	Mounting	Output State	Logic	Connection	Wiring	Dimensions
<b>Extended Distance</b>									
<i>DW-AD-621-03-960</i>		Ø3 (Smooth barrel)	1mm (0.039 in)	Flush	N.O.	NPN	2m (6.5 ft) axial cable	Diagram 1	Figure 1
<i>DW-AD-623-03-960*</i>						PNP		Diagram 2	Figure 1
<i>DW-AD-622-03</i>					N.C.	NPN		Diagram 1	Figure 2
<i>DW-AD-624-03</i>						PNP		Diagram 2	Figure 2

\*IO-Link model

## Dimensions

mm [inches]

Figure 1

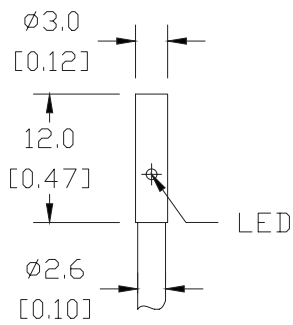
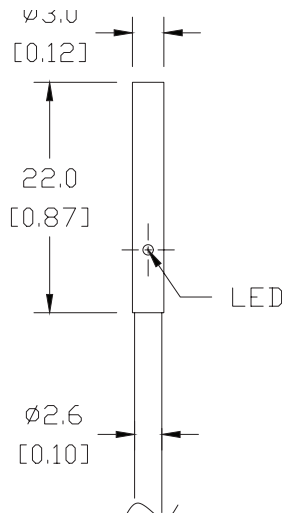


Figure 2



# DW Series 3mm Inductive Proximity Sensors

DW Series Ø3 Specifications		
	DW-Ax-62x-03-96x	DW-Ax-62x-03
Mounting Type	Flush	
Nominal Sensing Distance	1mm	
Operating Distance	-	
Material Correction Factors	See the <a href="#">Material influence table</a>	
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	≤ 8kHz	≤ 3kHz
Differential Travel (% of Nominal Distance)	≤ 10%	
Repeat Accuracy	0.02 mm	
Ripple	≤ 20%	
Time Delay Before Availability (tv)	≤ 10ms	
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	
Housing Material	Stainless steel	
Sensing Face Material	POM (polyoxymethylene)	
Shock/Vibration	IEC 60947-5-2/7.4	
Tightening Torque	-	
Weight	18g (0.625 oz)	
Connection	2m cable	
IO-Link	PNP N.O. Version Only	
Agency Approvals	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

Diagram 1

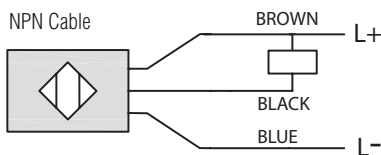


Diagram 2

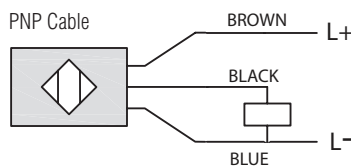


Diagram 3

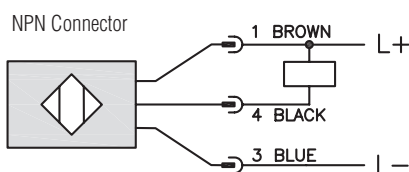
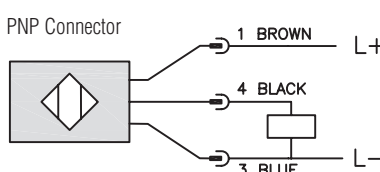


Diagram 4



# Accessories for 3mm Sensors

## Right-angle Mounting Bracket

Mounting bracket, right-angle, 316L stainless steel. Package of 2.  
For use with 3mm sensors.

Accessories for 3mm Sensors				
Part Number	Price	Description	Drawing Link	Weight [lb]
<a href="#">OPT2037</a>		Wenglor mounting bracket, right-angle, 316L stainless steel. Package of 2. For use with 3mm sensors.	<a href="#">PDF</a>	0.02



OPT2037