

DW Series 4mm Inductive Proximity Sensors

Miniature M4 (4mm) stainless steel – DC



- Four models available
- Complete overload protection
- IP67 rated
- Two M4 lock nuts included
- Stainless steel construction
- LED status indicator
- Lifetime warranty



DW Series M4 DC Inductive Prox Selection Chart									
Part Number	Price	Size	Sensing Range	Mounting	Output State	Logic	Connection	Wiring	Dimensions
Extended Distance									
DW-AD-621-M4-960	\$69.00	M4	1mm (0.039 in)	Flush	NO	NPN	2m (6.5') axial cable	Diagram 1	Figure 1
DW-AD-623-M4-960*	\$69.00					PNP		Diagram 2	Figure 1
DW-AD-622-M4	\$69.00				NC	NPN		Diagram 1	Figure 2
DW-AD-624-M4	\$69.00					PNP		Diagram 2	Figure 2

* IO-Link model

Dimensions

mm [inches]

Figure 1

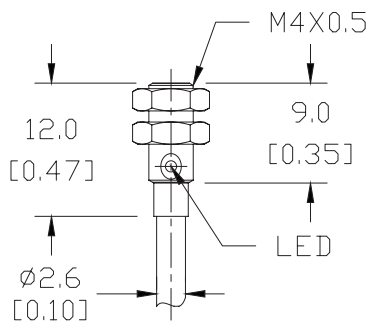
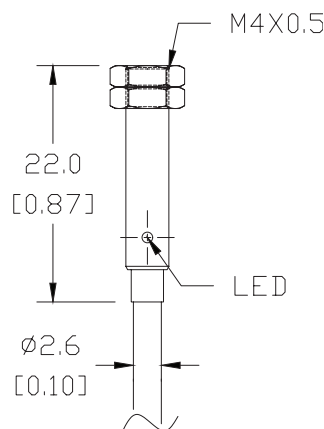


Figure 2



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DW Series 4mm Inductive Proximity Sensors

Miniature M4 (4mm) nickel silver – DC



- Eight models available
- 4mm smooth triple distance proximity sensor
- Complete overload protection
- IP67 rated

- Nickel silver construction
- LED status indicator
- Lifetime warranty



DW Series 4mm Smooth Triple Distance Inductive Prox Selection Chart

Part Number	Price	Size	Sensing Range	Mounting	Output State	Logic	Connection	Wiring	Dimensions
<i>Triple Distance</i>									
DW-AD-501-04	\$91.00	Ø4 (Smooth barrel)	2.5 mm (0.098 in)	Semi-flush	NO	NPN	2m (6.5 ft) axial cable	Diagram 1	Figure 1
DW-AD-503-04	\$91.00	Ø4 (Smooth barrel)	2.5 mm (0.098 in)	Semi-flush	NO	PNP	2m (6.5 ft) axial cable	Diagram 2	Figure 1
DW-AS-501-04	\$91.00	Ø4 (Smooth barrel)	2.5 mm (0.098 in)	Semi-flush	NO	NPN	M8 quick disconnect	Diagram 3	Figure 2
DW-AS-503-04	\$91.00	Ø4 (Smooth barrel)	2.5 mm (0.098 in)	Semi-flush	NO	PNP	M8 quick disconnect	Diagram 4	Figure 2
DW-AD-502-04	\$91.00	Ø4 (Smooth barrel)	2.5 mm (0.098 in)	Semi-flush	NC	NPN	2m (6.5 ft) axial cable	Diagram 1	Figure 1
DW-AD-504-04	\$91.00	Ø4 (Smooth barrel)	2.5 mm (0.098 in)	Semi-flush	NC	PNP	2m (6.5 ft) axial cable	Diagram 2	Figure 1
DW-AS-502-04	\$91.00	Ø4 (Smooth barrel)	2.5 mm (0.098 in)	Semi-flush	NC	NPN	M8 quick disconnect	Diagram 3	Figure 2
DW-AS-504-04	\$91.00	Ø4 (Smooth barrel)	2.5 mm (0.098 in)	Semi-flush	NC	PNP	M8 quick disconnect	Diagram 4	Figure 2

Dimensions

mm [inches]

Figure 1

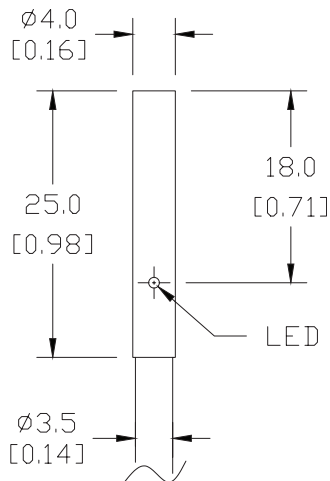
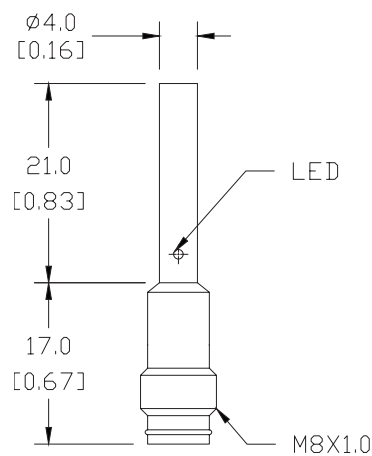


Figure 2



DW Series 4mm Inductive Proximity Sensors

DW Series 4mm Specifications			
Mounting Type	DW-Ax-62x-M4-96x	DW-Ax-62x-M4	DW-Ax-50x-04
		Flush	Flush
Nominal Sensing Distance	1mm		2.5 mm
Operating Distance	-		
Material Correction Factors	See the Material influence table		
Output Type	NPN or PNP, NO or NC		
Operating Voltage	10 to 30 VDC		
No-load Supply Current	≤ 10mA		
Operating (Load) Current	≤ 100mA		≤ 200mA
Off-state (Leakage) Current	≤ 0.1 mA		
Voltage Drop	≤ 2V		
Switching Frequency	≤8kHz	≤3kHz	≤800Hz
Differential Travel (% of Nominal Distance)	≤ 10%		
Repeat Accuracy	0.02 mm		
Ripple	≤ 20%		
Time Delay Before Availability (tv)	≤10ms		≤30ms
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		Nickel silver
Sensing Face Material	PET (Polyester)		
Shock/Vibration	IEC 60947-5-2/7.4		
Tightening Torque	-		
Weight	20g (0.71 oz) or 6g (0.211 oz)		31g (1.09 oz) or 3g (0.11 oz)
Connection	2m cable		2m cable or M8 connection
IO-Link	PNP/NO only	-	
Agency Approvals	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.

Wiring diagrams

Diagram 1

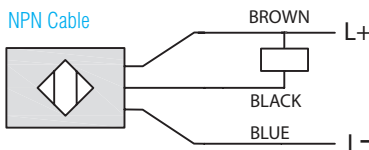


Diagram 2

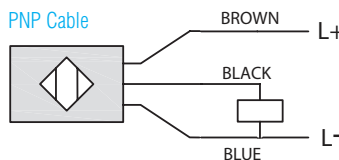


Diagram 3

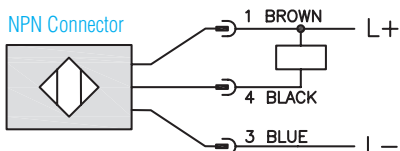
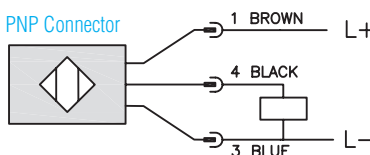


Diagram 4



Connectors



Accessories for 4mm Sensors

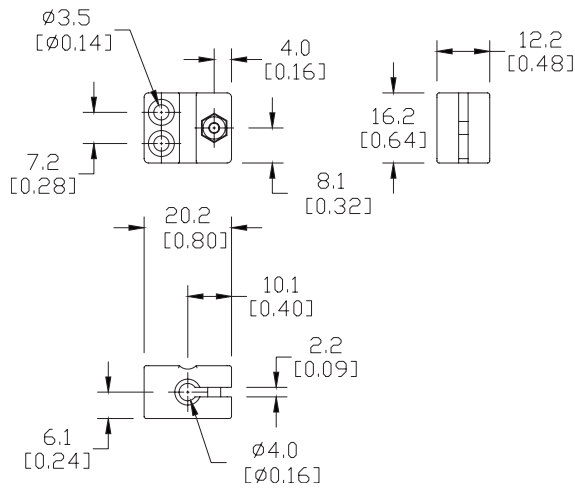
Right-angle Mounting Bracket

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

Accessories for 4mm Sensors			
Part Number	Price	Description	Weight [lb]
OPT2106	\$6.50	Mounting bracket, right-angle, plastic. For use with 4mm sensors.	0.02

Dimensions

mm [inches]



OPT2106

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