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

CONTRINEX SENSORS SAFETY RFID

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		M4	1mm (0.039 in)	Flush	N.O.	NPN	2m (6.5') axial cable	Diagram 1	Figure 1
DW-AD-623-M4-960*						PNP		Diagram 2	Figure 1
DW-AD-622-M4					N.C.	NPN		Diagram 1	Figure 2
DW-AD-624-M4						PNP		Diagram 2	Figure 2

* IO-Link model

Dimensions

mm [inches]

Figure 1

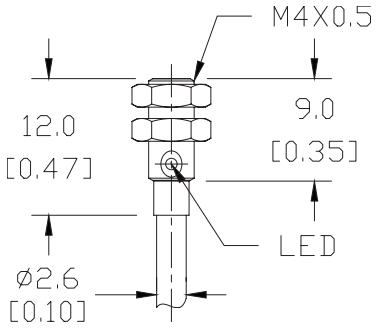
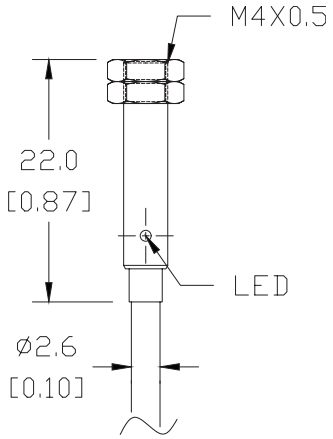


Figure 2

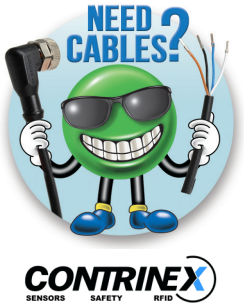


See our website: www.AutomationDirect.com for complete Engineering drawings.

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



CONTRINEX SENSORS SAFETY RFID

DW Series 4mm Smooth Triple Distance Inductive Prox Selection Chart									
Part Number	**Price**	**Size**	**Sensing Range**	**Mounting**	**Output State**	**Logic**	**Connection**	**Wiring**	**Dimensions**
Triple Distance									
DW-AD-501-04		Ø4 (Smooth barrel)	2.5 mm (0.098 in)	Semi-flush	N.O.	NPN	2m (6.5 ft) axial cable	Diagram 1	Figure 1
DW-AD-503-04		Ø4 (Smooth barrel)	2.5 mm (0.098 in)	Semi-flush	N.O.	PNP	2m (6.5 ft) axial cable	Diagram 2	Figure 1
DW-AS-501-04		Ø4 (Smooth barrel)	2.5 mm (0.098 in)	Semi-flush	N.O.	NPN	M8 quick-disconnect	Diagram 3	Figure 2
DW-AS-503-04		Ø4 (Smooth barrel)	2.5 mm (0.098 in)	Semi-flush	N.O.	PNP	M8 quick-disconnect	Diagram 4	Figure 2
DW-AD-502-04		Ø4 (Smooth barrel)	2.5 mm (0.098 in)	Semi-flush	N.C.	NPN	2m (6.5 ft) axial cable	Diagram 1	Figure 1
DW-AD-504-04		Ø4 (Smooth barrel)	2.5 mm (0.098 in)	Semi-flush	N.C.	PNP	2m (6.5 ft) axial cable	Diagram 2	Figure 1
DW-AS-502-04		Ø4 (Smooth barrel)	2.5 mm (0.098 in)	Semi-flush	N.C.	NPN	M8 quick-disconnect	Diagram 3	Figure 2
DW-AS-504-04		Ø4 (Smooth barrel)	2.5 mm (0.098 in)	Semi-flush	N.C.	PNP	M8 quick-disconnect	Diagram 4	Figure 2

Dimensions

mm [inches]

Figure 1

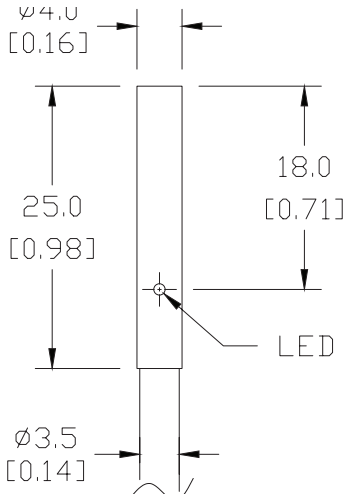
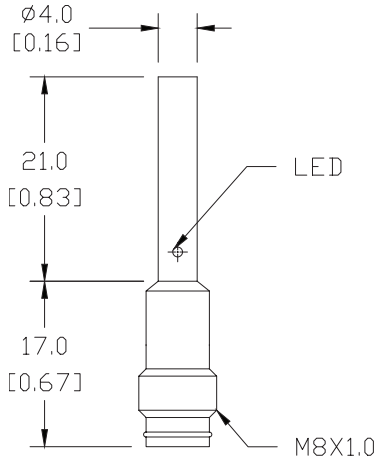


Figure 2



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	Semi-flush
Nominal Sensing Distance	1mm		2.5 mm
Operating Distance	–		
Material Correction Factors	See the Material influence table		
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		≤ 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/N.O. 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

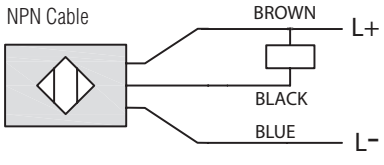
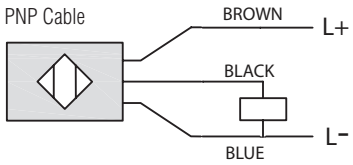


Diagram 2



Connectors

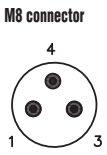


Diagram 3

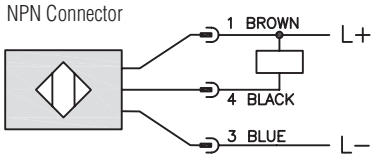
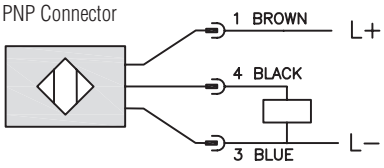


Diagram 4



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]***
OPT2106		Wenglor mounting bracket, right-angle, plastic. For use with 4mm sensors.	PDF	0.02

OPT2106