CONTRINEX

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

NEED CABLES?

DW Series 4mm DC Inductive Proximity Selection Chart									
Part Number	*Price*	*Size*	*Sensing Range*	*Mounting*	*Output State*	*Logic*	*Connection*	*Wiring*	*Dimensions*
Extended Distance									
DW-AD-711-04	$118.00	4mm	3mm [0.118 in]	Non-flush	N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 1
DW-AV-711-04-276	$118.00					NPN	M8 with 0.2 m cable	Diagram 3	Figure 2
DW-AD-713-04*	$118.00					PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 1
DW-AV-713-04-276*	$118.00					PNP	M8 with 0.2 m cable	Diagram 4	Figure 2

* IO-Link model

Wiring Diagrams

Diagram 1

NPN Cable

BROWN — L+
BLACK
BLUE — L−

Diagram 2

PNP Cable

BROWN — L+
BLACK
BLUE — L−
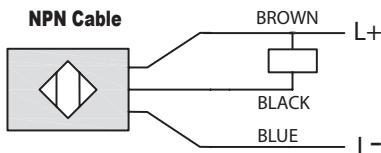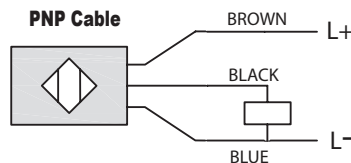
Connectors

M8 connector

Diagram 3

NPN Connector

1 BROWN — L+
4 BLACK
3 BLUE — L−

Diagram 4

PNP Connector

1 BROWN — L+
4 BLACK
3 BLUE — L−
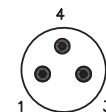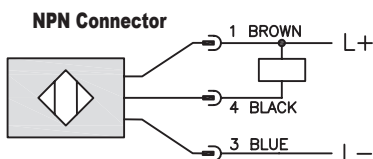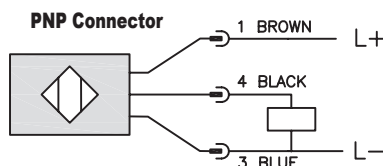
DW Series 4mm Stainless Steel Proximity Sensors

DW Series 4mm DC Inductive Proximity Specifications	
Specifications	*DW-Ax-71x-04*
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)	≤ 10%
Repeat Accuracy	0.15 mm
Ripple	≤ 20%
Time Delay Before Availability (tv)	≤ 10ms
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	25 N•m [221.27 lb•in]
Weight	29g [1.02 oz] with cable, 9g [0.32 oz] without cable
Connection	2m [6.5 ft] cable (PUR [polyurethane] 3 x 0.14mm^2 ≈ 26 AWG) or 0.2 m cable (PUR [polyurethane]) 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

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

$\varnothing$ 4.0 [0.16]

30.0 [1.18]

24.5 [0.96]

LED

$\varnothing$ 2.6 [0.10]

Figure 2

$\varnothing$ 4.0 [0.16]

30.0 [1.18]

LED

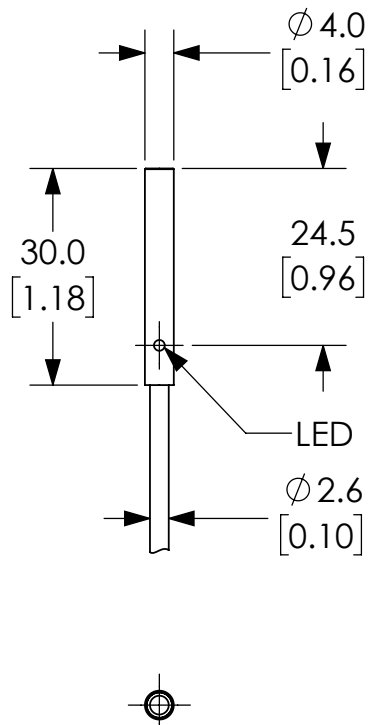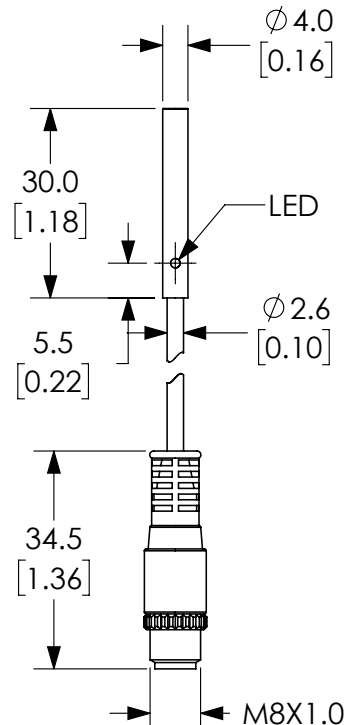$\varnothing$ 2.6 [0.10]

5.5 [0.22]

34.5 [1.36]

M8X1.0

See our website 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]
OPT2106	$8.00	Wenglor mounting bracket, right-angle, plastic. For use with 4mm sensors.	PDF	0.02

OPT2106