CONTRINEX

DW Series 20 x 32mm Stainless Steel Proximity Sensors

Miniature 20 x 32mm stainless steel – DC

- Miniature 20mm x 32mm proximity sensor
- Complete overload protection
- IP68/IP69K rated
- Stainless steel construction
- One-piece for harsh duty applications
- LED status indicator
- Lifetime warranty
- IO-Link models available

NEED CABLES?

DW Series 20 x 32mm Inductive Proximity Selection Chart									
Part Number	Price	Size	Sensing Range	Mounting	Output State	Logic	Connection	Wiring	Dimensions
Extended Distance									
DW-AD-701-C23	$98.00	20 x 32 x 8 mm [0.79 x 1.26 x 0.31 in]	7mm [0.276 in]	Flush	N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 1
DW-AD-703-C23*	$98.00				N.O.	PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 1
DW-AV-701-C23-276	$98.00				N.O.	NPN	M8 with 0.2 m (0.66 ft) cable	Diagram 3	Figure 2
DW-AV-703-C23-276*	$98.00				N.O.	PNP	M8 with 0.2 m (0.66 ft) cable	Diagram 4	Figure 2
DW-AD-702-C23	$95.00				N.C.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 1
DW-AD-704-C23	$95.00				N.C.	PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 1
DW-AV-702-C23-276	$95.00				N.C.	NPN	M8 with 0.2 m (0.66 ft) cable	Diagram 3	Figure 2
DW-AV-704-C23-276	$95.00				N.C.	PNP	M8 with 0.2 m (0.66 ft) cable	Diagram 4	Figure 2

* IO-Link model

Wiring Diagrams

Diagram 1
NPN Cable

BROWN L+
BLACK
BLUE L−
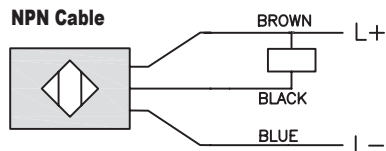
Diagram 2
PNP Cable

BROWN L+
BLACK
BLUE L−
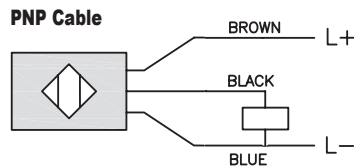
Connectors
M8 connector

4
1   3
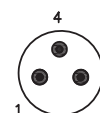
Diagram 3
NPN Connector

1 BROWN L+
4 BLACK
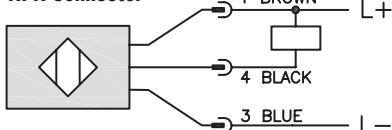3 BLUE L−

Diagram 4
PNP Connector

1 BROWN L+
4 BLACK
3 BLUE L−
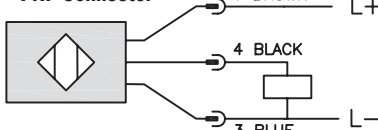
DW Series 20 x 32mm Stainless Steel Proximity Sensors

DW Series 20 x 32mm Inductive Proximity Specifications	
	DW-Ax-70x-C23
Mounting Type	Flush
Nominal Sensing Distance	7mm [0.276 in]
Operating Distance	–
Material Correction Factors	See the Material influence table
Output Type	NPN or PNP, N.O., N.C.
Operating Voltage	10 to 30 VDC
No-load Supply Current	≤ 10mA
Operating (Load) Current	≤ 200mA
Off-state (Leakage) Current	≤ 0.1 mA
Voltage Drop	≤ 2 V
Switching Frequency	≤ 180 Hz
Differential Travel (% of Nominal Distance)	≤ 10%
Repeat Accuracy	0.3 mm
Ripple	≤ 20%
Time Delay Before Availability (tv)	≤ 20ms
Reverse Polarity Protection	Yes
Short-Circuit Protection	Yes
Operating Temperature	-25 to 85°C [-13 to 185°F]
Protection Degree (DIN 40050)	IP68 & IP69K
Indication/Switch Status	The LED is located where the cable enters the sensor body. Indicator LED, Yellow, Solid: Indicates target is between 0 and 80% of Range Indicator LED, Yellow, Blinking: Indicates target is between 80 and 100% of Range and nearing max range
Housing Material	Stainless steel V4A
Sensing Face Material	Stainless steel V4A
Shock/Vibration	IEC 60947-5-2/7.4
Tightening Torque	–
Weight	47g [1.66 oz] with cable, 25g [0.88 oz] without cable
Connection	2m [6.5 ft] cable (PVC [polyvinyl chloride] 3 x 0.14mm² ≈ 26 AWG) or 0.2 m [0.66 ft] cable (PVC [polyvinyl chloride]) with M8 connection
Minimum Mounting Distance (center to center)	60.0 mm [2.36 in]
IO-Link	PNP N.O. version only
Agency Approvals	CE, cULus E239373

To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

DW Series 20 x 32mm Stainless Steel Proximity Sensors

Dimensions

mm [inches]

Figure 1
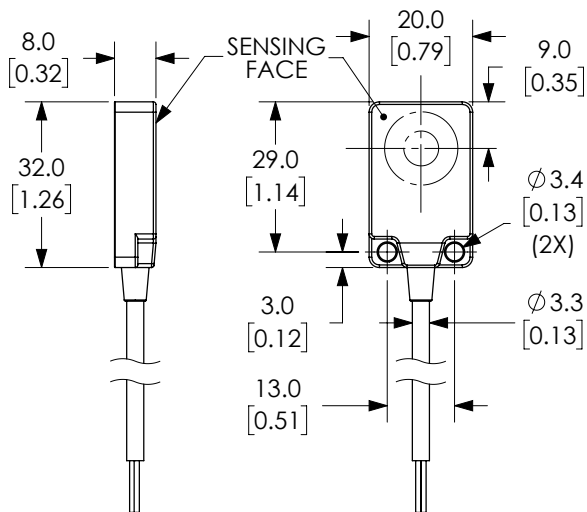
Figure 2
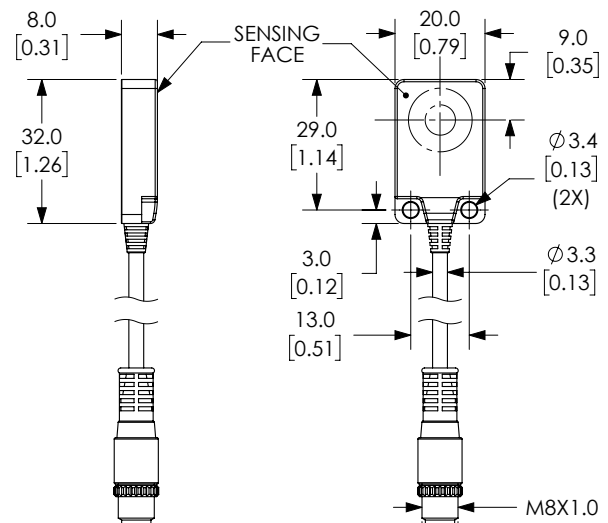
See our website www.AutomationDirect.com for complete engineering drawings.