



DW Series 8mm Inductive Proximity Sensors



Features of M8 (8mm) Stainless steel – DC

- Twenty models available
- Flush and non-flush models
- Complete overload protection
- IP67 rated
- I/O Link (PNP N.O. models only)
- Two M* nuts included
- 304 stainless steel housing
- LED status indicator
- Lifetime warranty



DW Series M8 Inductive Proximity Sensor Selection Chart

Part Number	Price	Frequency	Sensing Range	Mounting	Output State	Logic	Connection	Wiring	Weight	Drawing Link
Standard Sensing Distance										
DW-AD-601-M8-121	\$16.00	5000Hz	1.5mm	Flush	N.O.	NPN	2m (6.5 ft) axial cable	Diagram 1	40.2 g	PDF
DW-AS-601-M8-001	\$16.00	5000Hz	1.5mm	Flush	N.O.	NPN	M8 quick-disconnect	Diagram 2	13g	PDF
DW-AD-603-M8-121	\$16.00	5000Hz	1.5mm	Flush	N.O.	PNP	2m (6.5 ft) axial cable	Diagram 3	40.2 g	PDF
DW-AS-603-M8-001	\$16.00	5000Hz	1.5mm	Flush	N.O.	PNP	M8 quick-disconnect	Diagram 4	13g	PDF
DW-AS-604-M8-001	\$16.00	5000Hz	1.5mm	Flush	N.C.	PNP	M8 quick-disconnect	Diagram 4	13g	PDF
DW-AD-611-M8-121	\$16.00	4500Hz	2.5mm	Non-flush	N.O.	NPN	2m (6.5 ft) axial cable	Diagram 1	39.8 g	PDF
DW-AS-611-M8-001	\$16.00	4500Hz	2.5mm	Non-flush	N.O.	NPN	M8 quick-disconnect	Diagram 2	12.5 g	PDF
DW-AD-613-M8-121	\$16.00	4500Hz	2.5mm	Non-flush	N.O.	PNP	2m (6.5 ft) axial cable	Diagram 3	39.8 g	PDF
DW-AS-613-M8-001	\$16.00	4500Hz	2.5mm	Non-flush	N.O.	PNP	M8 quick-disconnect	Diagram 4	12.5 g	PDF
DW-AS-614-M8-001	\$16.00	4500Hz	2.5mm	Non-flush	N.C.	PNP	M8 quick-disconnect	Diagram 4	12.5 g	PDF
Extended Sensing Distance										
DW-AD-621-M8	\$19.00	5000Hz	2.0mm	Flush	N.O.	NPN	2m (6.5 ft) axial cable	Diagram 1	41.5 g	PDF
DW-AS-621-M8-001	\$19.00	5000Hz	2.0mm	Flush	N.O.	NPN	M8 quick-disconnect	Diagram 2	13g	PDF
DW-AD-623-M8	\$19.00	5000Hz	2.0mm	Flush	N.O.	PNP	2m (6.5 ft) axial cable	Diagram 3	41.5 g	PDF
DW-AS-623-M8-001	\$19.00	5000Hz	2.0mm	Flush	N.O.	PNP	M8 quick-disconnect	Diagram 4	13g	PDF
DW-AS-624-M8-001	\$19.00	5000Hz	2.0mm	Flush	N.C.	PNP	M8 quick-disconnect	Diagram 4	13g	PDF
DW-AD-631-M8	\$19.00	3500Hz	4.0mm	Non-flush	N.O.	NPN	2m (6.5 ft) axial cable	Diagram 1	69g	PDF
DW-AS-631-M8-001	\$19.00	3500Hz	4.0mm	Non-flush	N.O.	NPN	M8 quick-disconnect	Diagram 2	12.3 g	PDF
DW-AD-633-M8	\$19.00	3500Hz	4.0mm	Non-flush	N.O.	PNP	2m (6.5 ft) axial cable	Diagram 3	69g	PDF
DW-AS-633-M8-001	\$19.00	3500Hz	4.0mm	Non-flush	N.O.	PNP	M8 quick-disconnect	Diagram 4	12.3 g	PDF
DW-AS-634-M8-001	\$19.00	3500Hz	4.0mm	Non-flush	N.C.	PNP	M8 quick-disconnect	Diagram 4	12.3 g	PDF



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DW Series M8 Specifications				
Sensor	DW-Ax-60x-M8	DW-Ax-62x-M8	DW-Ax-61x-M8	DW-Ax-63x-M8
Mounting Type	Flush		Non-flush	
Nominal Sensing Distance	1.5mm	2mm	2.5mm	4mm
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	≤ 200mA			
Off-state (Leakage) Current	≤ 0.1 mA			
Voltage Drop	≤ 2 V @ 200mA			
Switching Frequency	5000Hz		4500Hz	3500Hz
Differential Travel (% of Nominal Distance)	<20%	<10%	<20%	
Repeat Accuracy	0.07 mm	0.10 mm	0.12 mm	0.20 mm
Ripple	≤ 20%			
Time Delay Before Availability (tv)	≤32ms		≤60ms	≤80ms
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	Indicator LED, Yellow, Solid (When the target is between 0-80% of Range, the LED will be solid) Indicator LED, Yellow, Blinking (When the target is between 80-100% of Range, the LED will blink to let you know it is nearing max range)			
Housing Material	304 Stainless Steel			
Sensing Face Material	PA66 (Nylon)	PA12 (Nylon)	PBTP (Crastin)	
Shock/Vibration	IEC 60947-5-2/7.4			
Tightening Torque	8 Nm			
Connection	2m cable (PVC, 3C, 26 AWG), or 3-Pole M8 connection			
IO-Link	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.

Wiring Diagrams

Diagram 1

NPN Cable

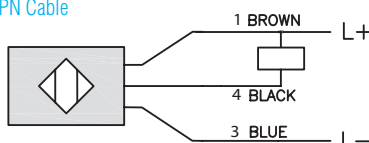


Diagram 3

PNP Cable

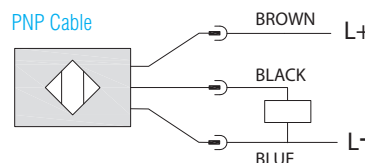


Diagram 2

NPN Connector

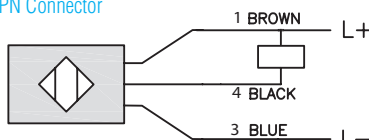
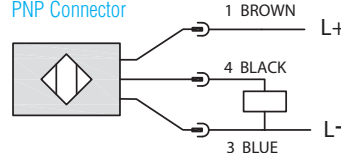


Diagram 4

PNP Connector



Connectors

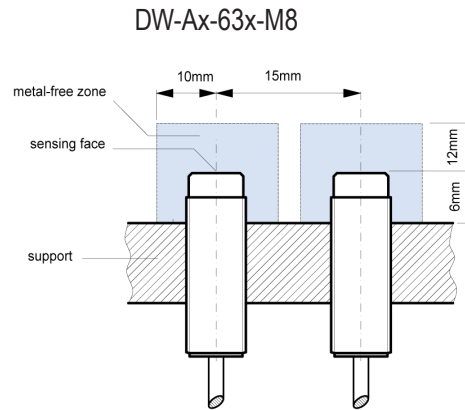
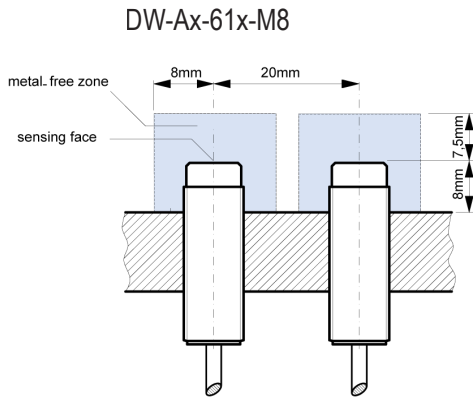
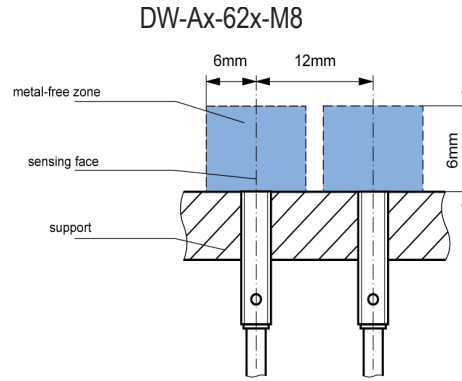
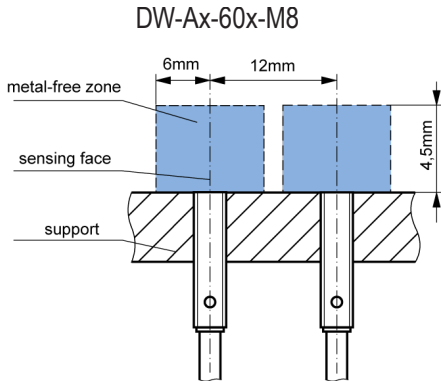
M8 connector





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Installation



Response Diagram

