



DW Series 30mm Triple Sensing Proximity Sensors



M30 (30mm) Chrome Plated Brass – DC

- 30mm threaded triple distance proximity sensor
- 22mm and 40mm sensing
- Complete overload protection
- IP67 rated
- Two M30 lock nuts included
- Chrome plated brass construction
- LED status indicator
- Lifetime warranty



DW Series 30mm Triple Distance Inductive Proximity Selection Chart

Part Number	Price	Size	Sensing Range	Mounting	Output State	Logic	Connection	Wiring	Dimensions
Triple Distance Semi-flush									
DW-AD-501-M30	\$71.00	M30	22mm [0.866 in]	Semi-flush	N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 1
DW-AD-503-M30	\$71.00				N.O.	PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 1
DW-AS-501-M30-002	\$71.00				N.O.	NPN	M12 quick-disconnect	Diagram 3	Figure 3
DW-AS-503-M30-002	\$71.00				N.O.	PNP	M12 quick-disconnect	Diagram 4	Figure 3
DW-AS-504-M30-002	\$71.00				N.C.	PNP	M12 quick-disconnect	Diagram 4	Figure 3
Triple Distance Non-flush									
DW-AD-511-M30	\$78.00	M30	40mm [1.574 in]	Non-flush	N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 2
DW-AD-513-M30	\$78.00				N.O.	PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 2
DW-AS-511-M30-002	\$78.00				N.O.	NPN	M12 quick-disconnect	Diagram 3	Figure 4
DW-AS-513-M30-002	\$78.00				N.O.	PNP	M12 quick-disconnect	Diagram 4	Figure 4
DW-AS-514-M30-002	\$78.00				N.C.	PNP	M12 quick-disconnect	Diagram 4	Figure 4

Wiring Diagrams

Diagram 1

NPN Cable

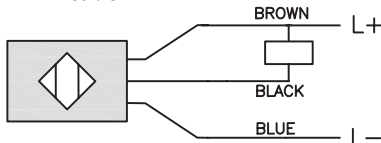


Diagram 2

PNP Cable

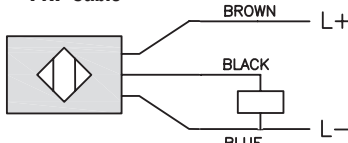


Diagram 3

NPN Connector

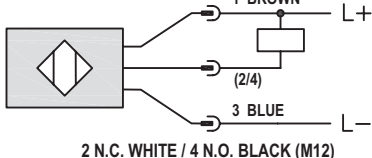
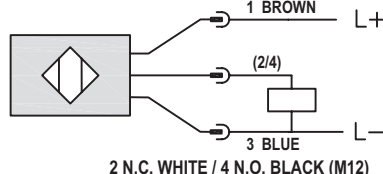


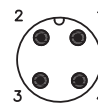
Diagram 4

PNP Connector



Connectors

M12 connector



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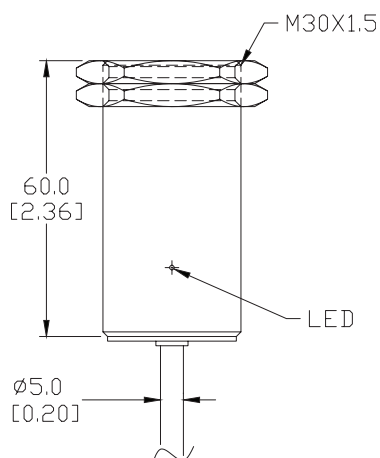
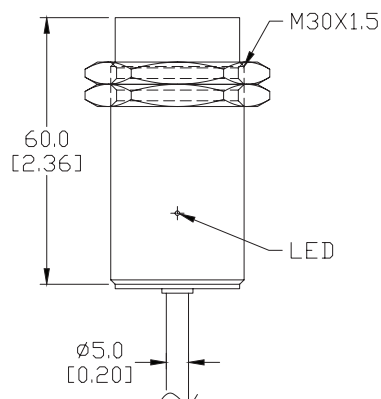
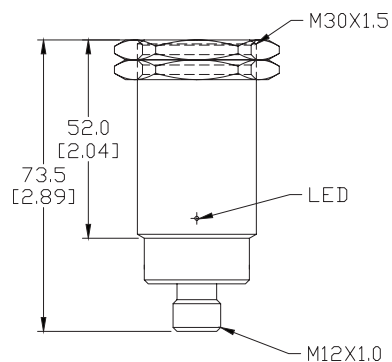
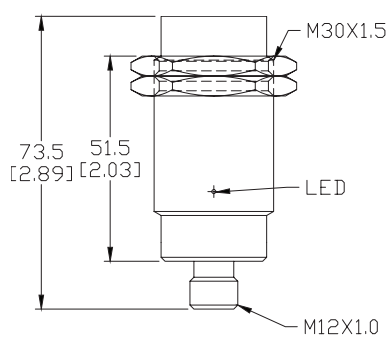
DW Series 30mm Triple Distance Inductive Proximity Specifications		
Specifications	DW-Ax-50x-M30	DW-Ax-51x-M30
Mounting Type	Semi-flush	Non-flush
Nominal Sensing Distance	22mm [0.866 in]	40mm [1.574 in]
Operating Distance	NA	
Material Correction Factors	See the Material influence table	
Output Type	NPN 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	
Switching Frequency	≤ 200Hz	≤ 100Hz
Differential Travel (% of Nominal Distance)	≤ 10%	
Repeat Accuracy	1.1 mm	2.0 mm
Ripple	≤ 20%	
Time Delay Before Availability (tv)	≤ 200ms	
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	Chrome plated brass	
Sensing Face Material	PBT [Polybutylene terephthalate]	
Shock/Vibration	IEC 60947-5-2/7.4	
Tightening Torque	--	
Weight	215g [7.58 oz], 155g [5.47 oz]	212g [7.48 oz], 143g [5.04 oz]
Connection	2m [6.5 ft] cable, M12 connection	
IO-Link	NA	
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

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Dimensions

mm [inches]

Figure 1**Figure 2****Figure 3****Figure 4**See our website: www.AutomationDirect.com for complete Engineering drawings.

Mounting bracket, right-angle, 304 stainless steel. For use with 30mm sensors.

mm [inches]

Mounting Rods and Brackets

Mounting Rods

304 Stainless steel rods for mounting swivel brackets [OPT2112](#) - [OPT2127](#). Available in three lengths: 200mm, 300mm, and 500mm. 12mm diameter.

Mounting Rods for OPT2112-2127 Swivel Mounting Brackets				
Part Number	Price	Description	Drawing Link	Weight lb (g)
OPT2109	\$13.00	Wenglor mounting rod, 12mm diameter, 200mm length, 304 stainless steel.	PDF	0.41 [185.97]
OPT2110	\$16.00	Wenglor mounting rod, 12mm diameter, 300mm length, 304 stainless steel.	PDF	0.60 [272.16]
OPT2111	\$21.00	Wenglor mounting rod, 12mm diameter, 500mm length, 304 stainless steel.	PDF	0.98 [444.52]



Right-angle Mounting Bracket

Mounting bracket, right-angle, nickel-plated brass. For use with 12mm mounting rods [OPT2109](#), [OPT2110](#) & [OPT2111](#).

Right-angle Mounting Brackets for 12mm Sensors				
Part Number	Price	Description	Drawing Link	Weight lb [g]
OPT2108	\$16.00	Wenglor mounting bracket, right-angle, nickel-plated brass. For use with 12mm mounting rods OPT2109, OPT2110 & OPT2111.	PDF	0.07 [31.8]

