

CONTRINEX 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

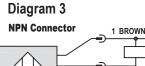


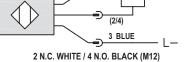
DW Series 30mm Triple Distance Inductive Proximity Selection Chart									
Part Number	Price	Size	Sensing Range	Mounting	Output State	Logic	Connection Wiring		Dimensions
Triple Distance Semi-flush									
<u>DW-AD-501-M30</u>					N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 1
DW-AD-503-M30			22mm [0.866 in]	Semi-flush	N.O.	PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 1
DW-AS-501-M30-002					N.O.	NPN	M12 quick-disconnect	Diagram 3	Figure 3
DW-AS-503-M30-002		M30			N.O.	PNP	M12 quick-disconnect	Diagram 4	Figure 3
DW-AD-502-M30		M30			N.C.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 1
DW-AD-504-M30					N.C.	PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 1
DW-AS-502-M30-002					N.C.	NPN	M12 quick-disconnect	Diagram 3	Figure 3
DW-AS-504-M30-002					N.C.	PNP	M12 quick-disconnect	Diagram 4	Figure 3
Triple Distance Non-flush									
DW-AD-511-M30					N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 2
DW-AD-513-M30			40mm [1.574 in]	Non-flush	N.O.	PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 2
DW-AS-511-M30-002					N.O.	NPN	M12 quick-disconnect	Diagram 3	Figure 4
DW-AS-513-M30-002		- M30			N.O.	PNP	M12 quick-disconnect	Diagram 4	Figure 4
DW-AD-512-M30					N.C.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 2
DW-AD-514-M30					N.C.	PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 2
DW-AS-512-M30-002					N.C.	NPN	M12 quick-disconnect	Diagram 3	Figure 4
DW-AS-514-M30-002]			N.C.	PNP	M12 quick-disconnect	Diagram 4	Figure 4

Wiring diagrams

Diagram 1 NPN Cable BROWN |+BLACK BLUE L-

L+

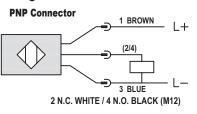




PNP Cable BROWN - | + BLACK

Diagram 4

Diagram 2



BLUE

1.

Connectors

M12 connector



For the latest prices, please check AutomationDirect.com.

1-800-633-0405 **DW Series 30mm Triple Sensing Proximity Sensors**

DW Series 30r	nm Triple Distance Inductive Proxi	mity 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 Materia	l influence table		
Output Type	NPN or PNP,	N.O. or N.C.		
Operating Voltage	10 to 3	0 VDC		
No-load Supply Current	≤ 1(ImA		
Operating (Load) Current	≤ 20	0mA		
Off-state (Leakage) Current	≤ 0.1	l mA		
Voltage Drop	≤2	2 V		
Switching Frequency	≤ 200Hz	≤ 100Hz		
Differential Travel (% of Nominal Distance)	≤1	0%		
Repeat Accuracy	1.1 mm	2.0 mm		
Ripple	≤2	0%		
Time Delay Before Availability (tv)	≤ 200ms			
Reverse Polarity Protection	Ye	25		
Short-Circuit Protection	Ye	25		
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 [Polybutyle	ne terephthalate]		
Shock/Vibration	IEC 6094	7-5-2/7.4		
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

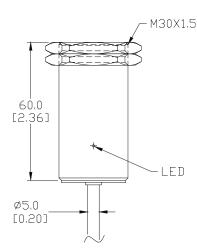
1-800-633-0405 **DW Series 30mm Triple Sensing Proximity Sensors**

Figure 2

Dimensions

mm [inches]

Figure 1



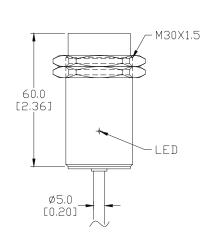
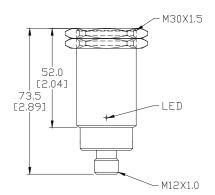
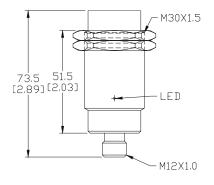


Figure 3







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

Accessories for 30mm Sensors

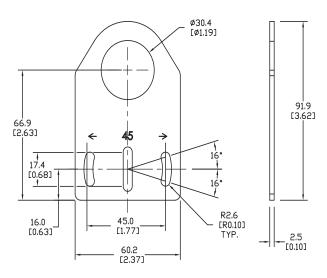
Axial Mounting Bracket

Mounting bracket, axial, zinc-plated steel. For use with 30mm sensors. Has two mounting holes (use 5mm screws) and allows the rotation of an optical axis for right-beam-angle-adapter sensors. Hexagonal nuts not included.

Accessories for 30mm Sensors						
Part Number	Price	Description	Weight Ib [g]			
<u>ST30A</u>		Micro Detectors mounting bracket, axial, zinc plated steel. For use with 30mm sensors.	0.18 [81.7]			

Dimensions

mm [inches]

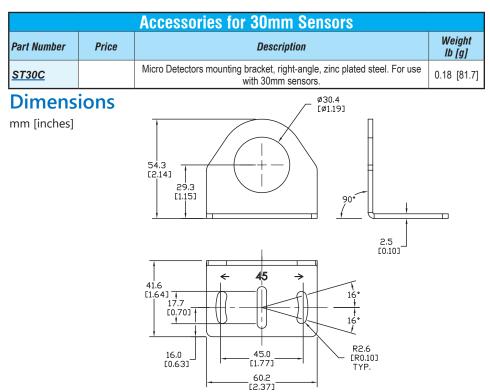




<u>ST30A</u>

Right-angle Mounting Bracket

Mounting bracket, right-angle, zinc-plated steel. For use with 30mm sensors. Has two mounting holes (use 5mm screws) and allows the rotation of an optical axis for axial sensors. Hexagonal nuts not included.





ST30C

1-800-633-0405 Accessories for 30mm Sensors

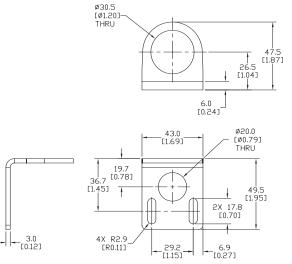
Right-angle Mounting Bracket

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

Accessories for FW Series Sensors							
Part Number	nber Price Description						
<u>ST30C6W</u>		AutomationDirect mounting bracket, right-angle, 304 stainless steel. For use with 30mm sensors.	0.15 (68.0)				

Dimensions

mm [inches]







Right-angle Swivel Mounting Systems

Mounting bracket, right-angle swivel, 360 degree vertical and horizontal adjustment, 12mm rod mount. For use with 30mm sensors. Available in all 304 stainless steel or with an aluminum head with a 304 stainless steel mounting plate.

Accessories for 30mm Sensors									
Part Number	Price	Description	Mounting Head	Mounting Plate	Drawing Link	Weight Ib [g]			
<u>OPT2118</u>		Wenglor mounting bracket, right-angle swivel, 360 degree vertical and horizontal adjustment, aluminum, 12mm rod mount. For use with 30mm sensors.	Aluminum	304 Stainless steel	<u>PDF</u>	0.18 [81.7]			
<u>OPT2119</u>		Wenglor mounting bracket, right-angle swivel, 360 degree vertical and horizontal adjustment, 304 stainless steel, 12mm rod mount. For use with 30mm sensors.	304 Stainless Steel	304 Stainless steel	<u>PDF</u>	0.18 [81.7]			



Note: 304 Stainless steel mounting rods sold separately: <u>OPT2109</u> (200mm [7.87 in] length), <u>OPT2110</u> (300mm [11.81 in] length), and <u>OPT2111</u> (500mm [19.69 in] length).

OPT2118, OPT2119

1-800-633-0405 Mounting Rods and Brackets

Mounting Rods

304 Stainless steel rods for mounting swivel brackets <u>OPT2112</u> - <u>OPT2127</u> 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 Ib (g)			
<u>OPT2109</u>		Wenglor mounting rod, 12mm diameter, 200mm length, 304 stainless steel.	<u>PDF</u>	0.41 [185.97]			
<u>OPT2110</u>		Wenglor mounting rod, 12mm diameter, 300mm length, 304 stainless steel.	<u>PDF</u>	0.60 [272.16]			
<u>OPT2111</u>		Wenglor mounting rod, 12mm diameter, 500mm length, 304 stainless steel.	<u>PDF</u>	0.98 [444.52]			



Right-angle Mounting Bracket

Mounting bracket, right-angle, nickel-plated brass. For use with 12mm mounting rods <u>OPT2109</u>, <u>OPT2110</u> & <u>OPT2111</u>.

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

