

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									
DW-AD-501-M30					N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 1
DW-AD-503-M30		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					N.O.	PNP	M12 quick-disconnect	Diagram 4	Figure 3
DW-AS-504-M30-002					N.C.	PNP	M12 quick-disconnect	Diagram 4	Figure 3
Triple Distance Non-flush	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		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					N.O.	PNP	M12 quick-disconnect	Diagram 4	Figure 4
DW-AS-514-M30-002					N.C.	PNP	M12 quick-disconnect	Diagram 4	Figure 4

Wiring Diagrams

Diagram 1

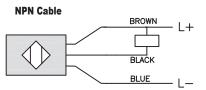


Diagram 3

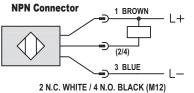
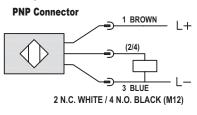


Diagram 2 PNP Cable BROWN 1+ BLACK BLUE

Diagram 4



Connectors

M12 connector



tSEN-270

Proximity Sensors

DW Series 30mm Triple Sensing Proximity Sensors

DW Series 30r	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 3	0 VDC						
No-load Supply Current	≤ 10	ImA						
Operating (Load) Current	≤ 20	DmA						
Off-state (Leakage) Current	≤ 0.1	mA						
Voltage Drop	≤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	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 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

DW Series 30mm Triple Sensing Proximity Sensors

Figure 2

Dimensions

mm [inches]

Figure 1

M30X1.5

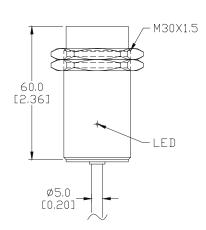
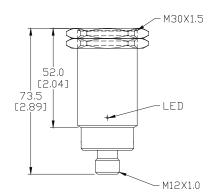
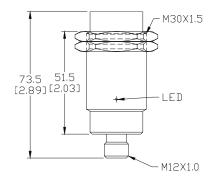


Figure 3







See our website: for complete Engineering drawings.

Accessories for 30mm Sensors

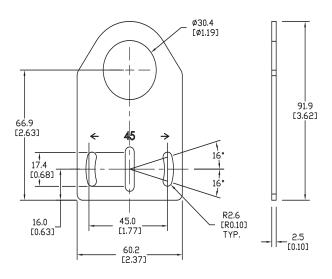
Axial Mounting Bracket

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]

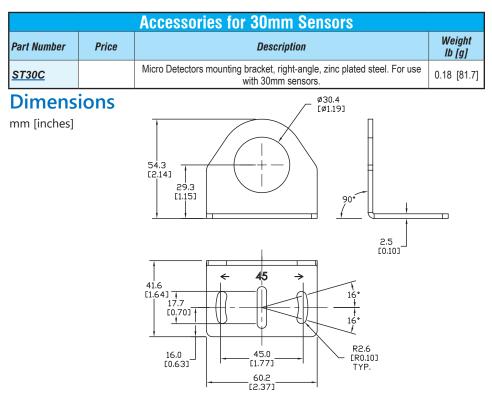




<u>ST30A</u>

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.





Accessories for 30mm Sensors

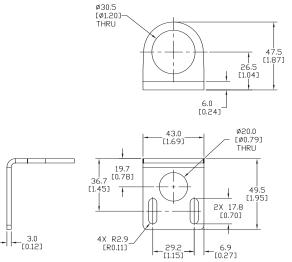
Right-angle Mounting Bracket

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

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

Dimensions

mm [inches]





ST30C6W

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

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.	PDF	0.41 [185.97]			
<u>OPT2110</u>		Wenglor mounting rod, 12mm diameter, 300mm length, 304 stainless steel.	PDF	0.60 [272.16]			
<u>OPT2111</u>		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 <u>OPT2109</u>, <u>OPT2110</u> & <u>OPT2111</u>.

Right-angle Mounting Brackets for 12mm Sensors						
Part Number	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]		

