1-800-633-0405 **DW Series Analog Inductive Proximity Sensors**

M30 (30mm) Metal – Analog Output

- Voltage or current analog output
- Metal housing
- M12 quick-disconnect model
- IP67 rated
- Purchase cable separately (for quick-disconnect model)
- Lifetime warranty



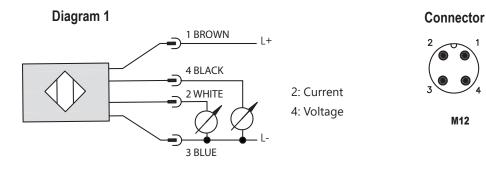
DW Series M30 Analog Inductive Proximity Selection Chart							
Part Number	Price	Sensing Range	Mounting	Output	Connection	Wiring	Dimensions
<u>DW-AS-509-M30-120</u>	\$121.00	0-20 mm [0-0.787 in]	Semi-flush	0-5 VDC or 1-5 mA	M12 [12mm] quick-disconnect	Diagram 1	1
<u>DW-AS-509-M30-320</u>	\$121.00	0-20 mm [0-0.787 in]	Semi-flush	0-10 VDC or 4-20 mA	M12 [12mm] quick-disconnect	Diagram 1	1

DW Series M30 Analog Inductive Proximity Specifications						
Specification	DW-AS-509-M30-120	DW-AS-509-M30-320				
Mounting Type	Semi-flush	Semi-flush				
Nominal Distance	0-20 mm [0-0.79 in]	0-20 mm [0-0.79 in]				
Operating Distance	NA	NA				
Material Correction Factors	See the Material influence table	See the Material influence table				
Output Type	0-5 VDC or 1-5 mA	0-10 VDC or 4-20 mA				
Current Output Max. Load / Power Supply	1 kΩ / 10VDC; 5 k / 30VDC	0.5 kΩ / 15VDC; 1 kΩ / 30VDC				
Voltage Output Min. Load	500Ω	1kΩ				
Operating Voltage	10 to 30 VDC	15 to 30 VDC				
No-load Supply Current	≤10mA	≤12mA				
Operating (Load) Current	≤ 10mA	≤10mA				
Off-state (Leakage) Current	NA	NA				
Voltage Drop	≤ 2.0 V	≤ 2.0 V				
Switching Frequency	NA	NA				
Differential Travel (% of Nominal Distance)	NA	NA				
Repeat Accuracy	± 0.05 mm	± 0.05 mm				
Ripple	≤ 20%	≤ 20%				
Response Time	5ms	5ms				
Time Delay Before Availability (tv)	≤ 50ms	≤50ms				
Reverse Polarity Protection	Yes	Yes				
Short-Circuit Protection	Yes (switch auto-resets after overload is removed)	Yes (switch auto-resets after overload is removed)				
Operating Temperature	-25 to +70°C [-13 to 158°F]	-25 to +70°C [-13 to 158°F]				
Protection Degree (DIN 40050)	IEC IP67	IEC IP67				
Indication/Switch Status	NA	NA				
Housing Material	Chrome-plated brass	Chrome-plated brass				
Sensing Face Material	Polybutylene Terephthalate [PBT]	Polybutylene Terephthalate [PBT]				
Shock/Vibration	IEC 60947-5-2	IEC 60947-5-2				
Tightening Torque	60 N•m [44 lb•ft]	60 N•m (44 lb•ft)				
Weight (M12 connector)	135g [4.76 oz]	135g [4.76 oz]				
Connection	M12 [12mm] connector	M12 [12mm] connector				
Agency Approvals	UL file E239373	UL file E239373				

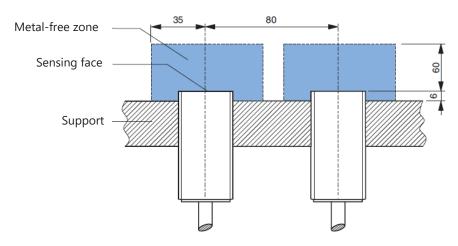
To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

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Wiring Diagram



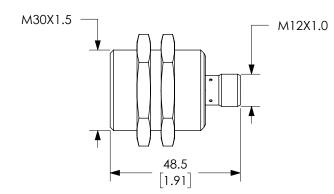
Installation



Dimensions

mm [inches]

Figure 1



Accessories for 30mm Sensors

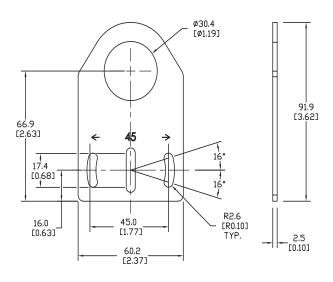
Axial Mounting Bracket

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		Description	Weight Ib [g]		
<u>ST30A</u>	\$2.25	Micro Detectors mounting bracket, axial, zinc plated steel. For use with 30mm sensors.	0.18 [81.7]		

Dimensions

mm [inches]

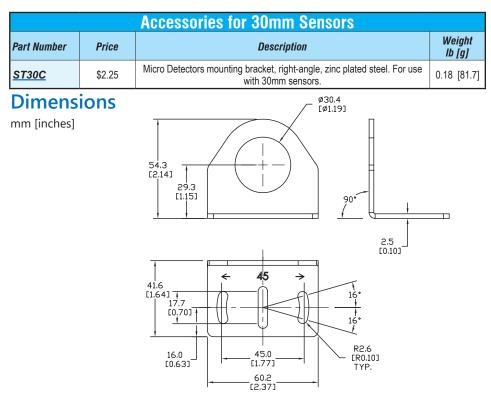




<u>ST30A</u>

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

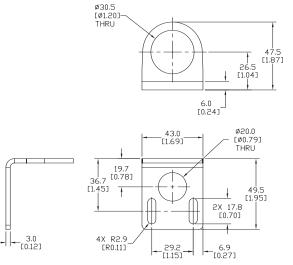
Right-angle Mounting Bracket

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

Accessories for FW Series Sensors						
Part Number	Part Number Price Description		Weight Ib [g]			
<u>ST30C6W</u>	\$5.50	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>	\$11.50	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>	\$21.00	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	Price Description Dra		Weight Ib (g)			
<u>OPT2109</u>	\$13.00	Wenglor mounting rod, 12mm diameter, 200mm length, 304 stainless steel.	PDF	0.41 [185.97]			
<u>OPT2110</u>	\$16.00	Wenglor mounting rod, 12mm diameter, 300mm length, 304 stainless steel.	PDF	0.60 [272.16]			
<u>OPT2111</u>	\$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 <u>OPT2109</u>, <u>OPT2110</u> & <u>OPT2111</u>.

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

