

## DW Series 30mm Stainless Steel Triple Sensing Proximity Sensors

#### M30 (30mm) stainless steel – DC

- 30mm threaded triple distance proximity sensor
- 40mm sensing
- Complete overload protection
- IP68/IP69k rated
- Two M30 lock nuts included
- Stainless steel construction
- One-piece for harsh duty applications
- LED status indicator
- Lifetime warranty



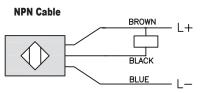
DW Series 30mm Stainless Steel Triple Sensing Inductive Proximity Selection Chart									
Part Number	Price	Size	Sensing Range	Mounting	Output State	Logic	Connection Wiring L		Dimensions
Triple Distance (Non-flush)									
DW-AD-711-M30	\$131.00	M30	40mm [1.574 in]	Non-flush	N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 1
DW-AD-713-M30*	\$131.00				N.O.	PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 1
DW-AS-711-M30-002	\$131.00				N.O.	NPN	M12 quick-disconnect	Diagram 3	Figure 2
DW-AS-713-M30-002*	\$131.00				N.O.	PNP	M12 quick-disconnect	Diagram 4	Figure 2
DW-AS-714-M30-002	\$131.00				N.C.	PNP	M12 quick-disconnect	Diagram 4	Figure 2

\*IO-Link Model

#### Wiring Diagrams

#### Diagram 1

Diagram 3 NPN Connector

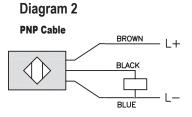


1 BROWN

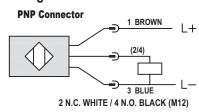
(2/4) 3 BLUE

2 N.C. WHITE / 4 N.O. BLACK (M12)

1+







Connectors

M12 connector



# **DW Series 30mm Stainless Steel Triple Sensing Proximity Sensors**

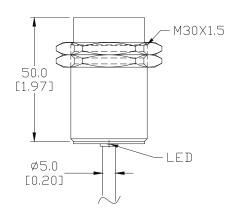
DW Series 30mm Stainless Steel Triple Sensing Inductive Proximity Specifications					
Mounting Type	Non-flush				
Nominal Sensing Distance	40mm [1.574 in]				
Operating Distance	NA				
Material Correction Factors	See the Material influence table				
Output Type	NPN or PNP, N.O. or N.C.				
Operating Voltage	10 to 30 VDC				
No-load Supply Current	≤ 10mA				
Operating (Load) Current	≤ 200mA				
Off-state (Leakage) Current	≤ 0.1 mA				
Voltage Drop	≤2V				
Switching Frequency	≤ 90 Hz				
Differential Travel (% of Nominal Distance)	≤ 10%				
Repeat Accuracy	2.0 mm				
Ripple	≤ 20%				
Time Delay Before Availability (tv)	≤ 40ms				
Reverse Polarity Protection	Yes				
Short-Circuit Protection	Yes				
Operating Temperature	-25 to 85°C [-13 to 185°F]				
Protection Degree (DIN 40050)	IP68/IP69K				
Indication/Switch Status	Yellow LED				
Housing Material	Stainless steel				
Sensing Face Material	Stainless steel				
Shock/Vibration	IEC 60947-5-2/7.4				
Tightening Torque					
Weight	196g [6.91 oz], 144g [5.08 oz]				
Connection	2m [6.5 ft] cable, M12 connection				
IO-Link	PNP/N.O. Version Only				
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.

#### Dimensions

mm [inches]

Figure 1



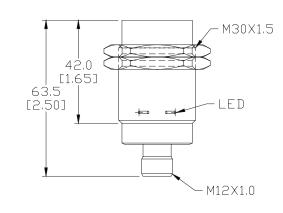


Figure 2

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

# Accessories for 30mm Sensors

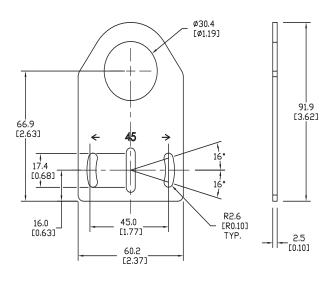
#### **Axial Mounting Bracket**

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>	\$2.25	Micro Detectors mounting bracket, axial, zinc plated steel. For use with 30mm sensors.	0.18 [81.7]			

#### **Dimensions**

mm [inches]

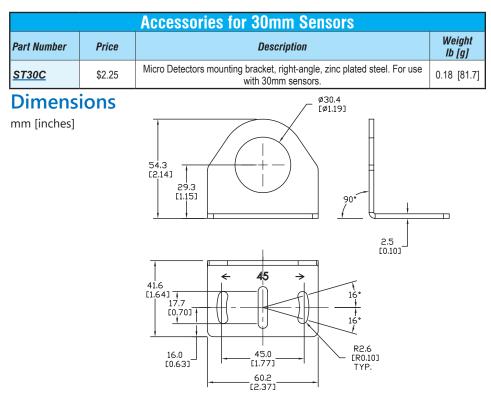




<u>ST30A</u>

#### **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

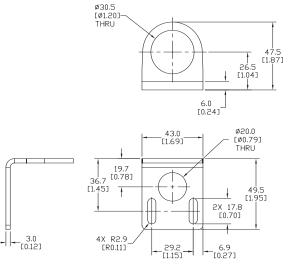
#### **Right-angle Mounting Bracket**

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.

M	Mounting Rods for OPT2112-2127 Swivel Mounting Brackets							
Part Number	Price	Description	Drawing Link	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]		

