

# **CONTRINEX** DW Series 30mm Triple Sensing **Proximity Sensors**



# M30 (30mm) Chrome Plated Brass - DC

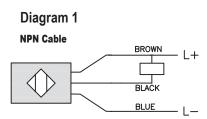
- 30mm threaded triple distance proximity sensor
- 22mm and 40mm sensing
- Complete overload protection
- IP67 rated

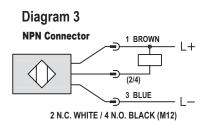
- Two M30 lock nuts included
- Chrome plated brass construction
- LED status indicator
- · Lifetime warranty

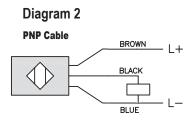


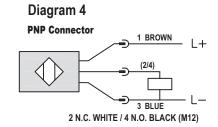
DW Series 30mm Triple Distance Inductive Proximity Selection Chart										
Part Number	Price	Size	Sensing Range	Mounting	Output State	Logic	Connection	Wiring	Dimensions	
Triple Distance Semi-flush										
DW-AD-501-M30	\$71.00				N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 1	
DW-AD-503-M30	\$71.00	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	\$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				N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 2	
DW-AD-513-M30	\$78.00	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	\$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**









#### **Connectors**

M12 connector



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

	1 Triple Distance Inductive Prop		
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 Mate	erial 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	<u> </u>	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	Yel	llow LED	
Housing Material	Chrome	e plated brass	
Sensing Face Material	PBT [Polybuty	ylene terephthalate]	
Shock/Vibration		0947-5-2/7.4	
Tightening Torque			
Weight	215g [7.58 oz], 155g [5.47 oz]	212g [7.48 oz], 143g [5.04 oz]	
Connection	2m [6.5 ft] cab	ole, M12 connection	
IO-Link		NA	
Agency Approvals	CE. cU	Lus E239373	

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

www.automationdirect.com

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

### **Dimensions**

mm [inches]

Figure 1

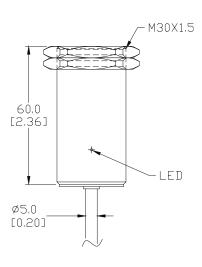


Figure 2

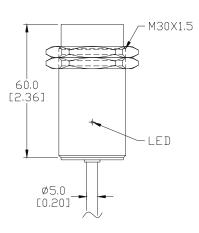


Figure 3

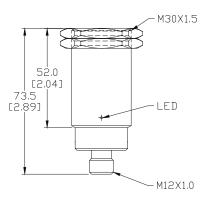
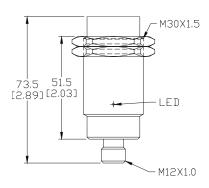


Figure 4



# **Accessories for 30mm Sensors**

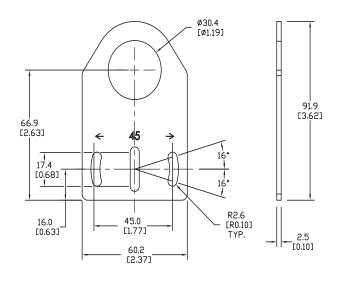
## **Axial Mounting Bracket**

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 lb [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]





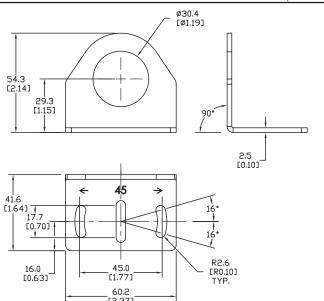
## **Right-angle Mounting Bracket**

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					
Part Number	Price	Description	Weight Ib [g]		
ST30C	\$2.25	Micro Detectors mounting bracket, right-angle, zinc plated steel. For use with 30mm sensors.	0.18 [81.7]		

#### **Dimensions**

mm [inches]



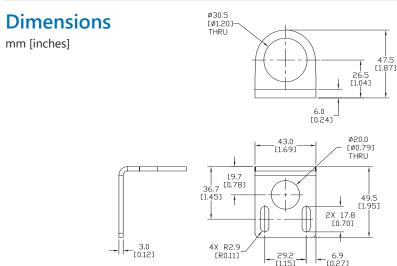


# **Accessories for 30mm Sensors**

## **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					
<u>ST30C6W</u>	\$5.50	AutomationDirect mounting bracket, right-angle, 304 stainless steel. For use with 30mm sensors.	0.15 (68.0)			





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** 

# **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>	\$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 OPT2109, OPT2110 & OPT2111.

Right-angle Mounting Brackets for 12mm Sensors							
Part Number Price Description		Drawing Link	Weight lb [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]			



www.automationdirect.com