

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



# M30 (30mm) Chrome Plated Brass - DC

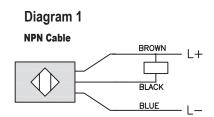
- 30mm threaded triple distance proximity sensor
- 22mm and 40mm sensing
- Complete overload protection
- IP67 rated

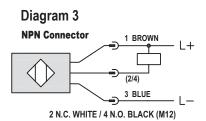
- Two M30 lock nuts included
- Chrome plated brass construction
- LED status indicator
- · Lifetime warranty

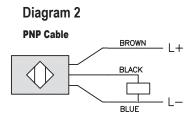


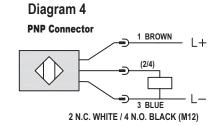
DW Series 30mm Triple Distance Inductive Proximity Selection Chart										
Part Number	Price	Size	Sensing Range	Mounting	Output State	Logic	Connection	Wiring	Dimensions	
Triple Distance Semi-flush										
DW-AD-501-M30	\$71.00				N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 1	
DW-AD-503-M30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

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	N	A					
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	DmA					
Operating (Load) Current	≤ 20	0mA					
Off-state (Leakage) Current	≤ 0.	1 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	≤ 20%						
Time Delay Before Availability (tv)	≤ 20	0ms					
Reverse Polarity Protection	Ye	Yes					
Short-Circuit Protection	Ye	es					
Operating Temperature	-25 to 70°C [	-13 to 158°F]					
Protection Degree (DIN 40050)	IP	67					
Indication/Switch Status	Yellov	v LED					
Housing Material	Chrome pl	ated 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

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

#### **Dimensions**

mm [inches]

Figure 1

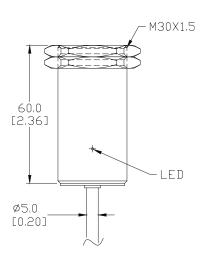


Figure 2

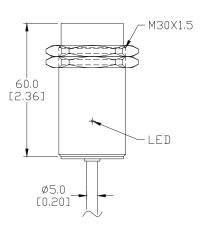


Figure 3

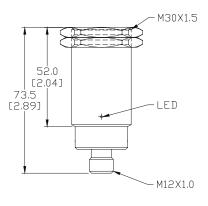
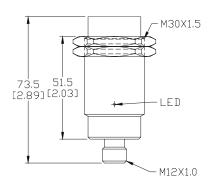


Figure 4



# **Accessories for 30mm Sensors**

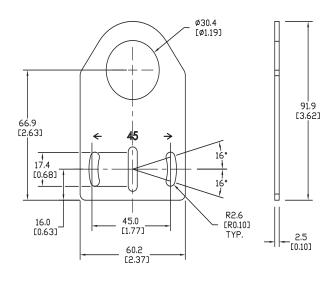
## **Axial Mounting Bracket**

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]





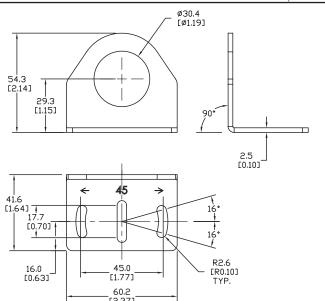
## **Right-angle Mounting Bracket**

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 lb [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]



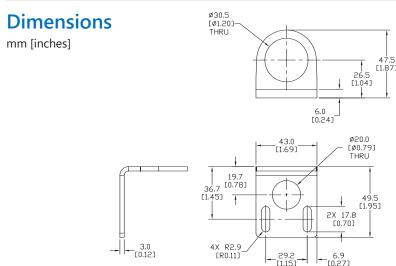


# **Accessories for 30mm Sensors**

## **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				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.	<u>PDF</u>	0.60 [272.16]				
<u>OPT2111</u>	\$21.00	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 OPT2109, OPT2110 & OPT2111.

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]			



tSEN-491

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