# **CT Series Capacitive Proximity Sensors**



## M30 (30mm) Plastic - AC/DC

- Plastic Housing
- Push button teach
- N.O./N.C. selectable
- IP65/IP67 rated
- LED status indicators
- 1/2 inch Micro AC quick-disconnect; purchase cable separately
- · Mounting accessories available



CT Series Capacitive Prox Selection Chart										
Part Number	Part Number Price Sensing Distance		Mounting	Output State	Logic	Connection	Wiring	Dimensions		
<u>CTV-00-2M</u>	\$123.00 40mm [1.58 in] Non-flush N.O./N.C 1/2 inch micro AC quick-disc		1/2 inch micro AC quick-disconnect	Diagram 1	Figure 1					

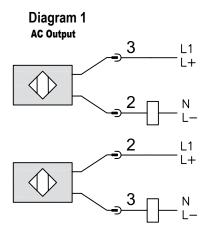
CT Series Specifications					
Part Number	<u>CTV-00-2M</u>				
Mounting Type	Non-flush				
Nominal Sensing Distance	40mm [1.58 in]				
Sensitivity	Push to teach				
Operating Distance	NA				
Material Correction Factors	IVA				
Output Type	AC/DC; N.O./N.C.				
Operating Voltage	20 to 250VDC; 30 to 250VAC				
No-load Supply Current	NA				
Operating (Load) Current	150mA [40°C]/100mA [80°C] continuous; 1.0 A [20ms/ 0.5 Hz] peak				
Off-state (Leakage) Current	< 2.5mA (250VAC) < 1.7mA (110VAC) < 1.5mA (24VDC)				
Voltage Drop	< 8VDC/ <10VAC				
Switching Frequency	10Hz				
Differential Travel (% of Nominal Distance)					
Repeat Accuracy	NA				
Ripple	IWI				
Time Delay Before Availability (tv)					
Reverse Polarity Protection	Yes				
Short-circuit Protection	No				
Operating Temperature	-25 to 80°C [-13 to 176°F]; Sensing face: -25 to 110°C [-13 to 230°F]				
Protection Degree (DIN 40050)	IEC IP65/IP67				
Indication/Switch Status	Yellow [output energized]				
Housing Material	Polybutylene Terephthalate [PBT]				
Sensing Face Material	Polybutylene Terephthalate [PBT]				
Shock/Vibration	DIN EN 60947-5-2				
Tightening Torque	8.0 N•m [5.9 lb•ft]				
Weight	122g [4.30 oz]				
Connectors	0.5 in [12.7 mm] micro AC connector, 2 lock nuts included				
Agency Approvals	cULus file E328811, CE, RoHS				

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**



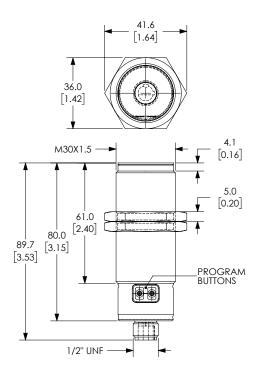
Connector 1/2" micro AC



#### **Dimensions**

mm [inches]

Figure 1



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

# **Capacitive Proximity Sensors - Accessories**



**Mounting Adapter** 

Capacitive Proximity Sensors Accessory Chart							
Part Number	Price	Description	Material	Dimensions			
Mounting Adapter							
CR1-ADPTR	\$5.00	Adapter for CR1 series capacitive sensors	Housing: Polybutylene Terephthalate (PBT) Included Screws: M3 x 6 Steel (0.5 N•m [0.37 lb•ft])	Figure 1			
Mounting Wells	Mounting Wells						
<u>MWT-01</u>	\$57.00	30mm [1.18 in] sensor mounting well	PTFE - Polytetrafluoroethylene (Teflon®)	Figure 2			
<u>MWK-01</u>	\$47.00	18mm [0.71 in] sensor mounting well	Temp: -25 to 246°C [-13 to 474.8°F]  Max. pressure: 100 PSI [6.9 bar]	Figure 3			

#### **Dimensions**

mm [inches]

Figure 1

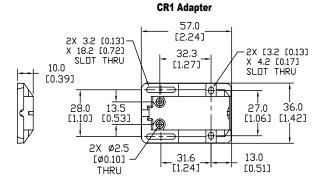
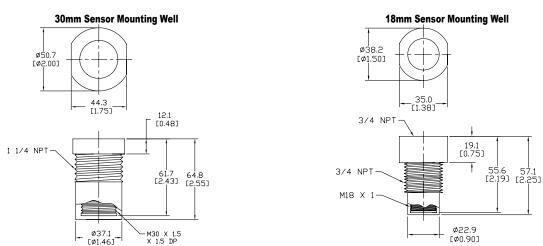


Figure 2



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

Figure 3

# **Accessories for 30mm Sensors**

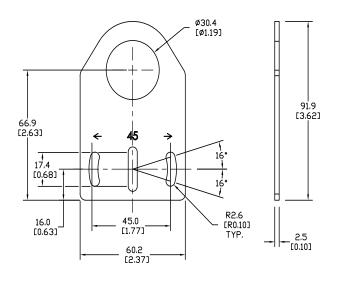
## **Axial Mounting Bracket**

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>	\$2.50	Micro Detectors mounting bracket, axial, zinc plated steel. For use with 30mm sensors.	0.18 [81.7]			

#### **Dimensions**

mm [inches]





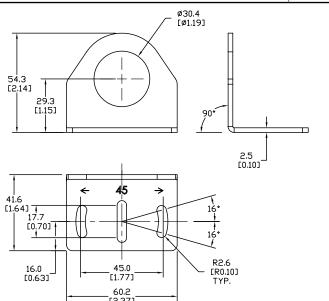
### **Right-angle Mounting Bracket**

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				
ST30C	\$2.50	Micro Detectors mounting bracket, right-angle, zinc plated steel. For use with 30mm sensors.	0.18 [81.7]			

#### **Dimensions**

mm [inches]



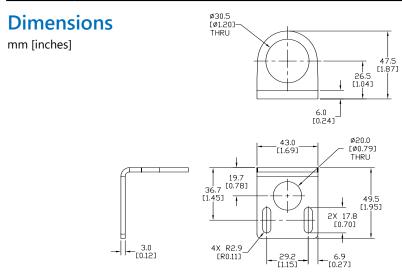


# **Accessories for 30mm Sensors**

### **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>	\$6.00	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 lb [g]				
<u>OPT2118</u>	\$12.50	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>	\$22.50	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	Part Number Price Description							
<u>OPT2109</u>	\$14.00	Wenglor mounting rod, 12mm diameter, 200mm length, 304 stainless steel.	PDF	0.41 [185.97]				
<u>OPT2110</u>	\$17.50	Wenglor mounting rod, 12mm diameter, 300mm length, 304 stainless steel.	PDF	0.60 [272.16]				
<u>OPT2111</u>	\$22.50	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 Ib [g]					
<u>OPT2108</u>	\$17.50	Wenglor mounting bracket, right-angle, nickel-plated brass. For use with 12mm mounting rods OPT2109, OPT2110 & OPT2111.	<u>PDF</u>	0.07 [31.8]				



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