1-800-633-0405 For the latest prices, please check At CT Series Capacitive Proximity Sensors



CT2-CP-2H

M30 (30mm) plastic – DC

Pushbutton models

- N.O./N.C. selectable
- Pushbutton teach
- LED status indicators
- IP65/IP67 rated
- M12 quick-disconnect; purchase cable separately
- Mounting accessories available

Potentiometer models

- N.O. or N.C. units available
- Potentiometer sensitivity adjustment
- LED status indicators
- IP65/IP67/IP69K rated
- 2m (6.5 ft) cable or M12 quick-disconnect; purchase cable separately
- Mounting accessories available



CT Series Capacitive Proximity Selection Chart									
Part Number	Price	Sensing Distance	Mounting	Output State	Logic	Connection	Wiring	Dimensions	
ushbutton select and teach									
<u>CT1-00-2H</u>	\$84.00	40 mm [1.58 in]	Non-flush	N.O./N.C.	NPN/PNP	M12 [12mm] quick-disconnect	Diagram 2	Figure 1	
Potentiometer ser	Potentiometer sensitivity adjustment								
<u>CT2-AP-1A</u>	\$63.00	15mm [0.59 in]	Flush	N.O.	PNP	2m [6.5 ft] cable	Diagram 1	Figure 2	
<u>CT2-AP-1H</u>	\$63.00	15mm [0.59 in]	Flush	N.O.	PNP	M12 micro DC connector	Diagram 2	Figure 3	
<u>CT2-CP-1A</u>	\$63.00	15mm [0.59 in]	Flush	N.C.	PNP	2m [6.5 ft] cable	Diagram 1	Figure 2	
<u>CT2-CP-1H</u>	\$63.00	15mm [0.59 in]	Flush	N.C.	PNP	M12 micro DC connector	Diagram 2	Figure 3	
CT2-AN-2A	\$63.00	25mm [0.98 in]	Non-flush	N.O.	NPN	2m [6.5 ft] cable	Diagram 1	Figure 2	
<u>CT2-AN-2H</u>	\$63.00	25mm [0.98 in]	Non-flush	N.O.	NPN	M12 micro DC connector	Diagram 2	Figure 3	
CT2-AP-2A	\$63.00	25mm [0.98 in]	Non-flush	N.O.	PNP	2m [6.5 ft] cable	Diagram 1	Figure 2	
<u>CT2-AP-2H</u>	\$63.00	25mm [0.98 in]	Non-flush	N.O.	PNP	M12 micro DC connector	Diagram 2	Figure 3	
<u>CT2-CN-2A</u>	\$63.00	25mm [0.98 in]	Non-flush	N.C.	NPN	2m [6.5 ft] cable	Diagram 1	Figure 2	
<u>CT2-CN-2H</u>	\$63.00	25mm [0.98 in]	Non-flush	N.C.	NPN	M12 micro DC connector	Diagram 2	Figure 3	
<u>CT2-CP-2A</u>	\$63.00	25mm [0.98 in]	Non-flush	N.C.	PNP	2m [6.5 ft] cable	Diagram 1	Figure 2	
<u>CT2-CP-2H</u>	\$63.00	25mm [0.98 in]	Non-flush	N.C.	PNP	M12 micro DC connector	Diagram 2	Figure 3	

1-800-633-0405 **CT Series Capacitive Proximity Sensors**

CT Seri	es Capacitive Proximity Spe	cifications				
Model	СТ1-00-2Н	CT2-xx-xx	CT2-xx-xx			
Mounting Type	Non-flush	Flush	Non-flush			
Nominal Sensing Distance	40mm [1.58 in]	15mm [0.59 in]	25mm [0.98 in]			
Sensitivity	Push to teach	Potentiometer				
Operating Distance						
Material Correction Factors		NA				
Output Type	N	PN/PNP; N.O./N.C.				
Operating Voltage	10 to 36VDC	10 to 3	30VDC			
No-load Supply Current	< 20mA	< 2	2mA			
Operating (Load) Current		200mA				
Off-state (Leakage) Current		NA				
Voltage Drop		< 2.5 VDC				
Switching Frequency	10Hz	40)Hz			
Differential Travel (% of Nominal Distance)						
Repeat Accuracy	NA					
Ripple	NA					
Time Delay Before Availability (tv)						
Reverse Polarity Protection	Yes					
Short-circuit Protection	Yes, pulsed					
Operating Temperature		o 80°C [-13 to 176°F] e: -25 to 110°C [-13 to 230°F]				
Protection Degree (DIN 40050)	IEC IP65/IP67	IEC IP65/	IP67/IP69K			
Indication/Switch Status	Yello	ow [output energized]				
Housing Material	Polybutylene terephthalate [PBT]					
Sensing Face Material	Polybuty	/lene terephthalate [PBT]				
Shock/Vibration	[DIN EN 60947-5-2				
Tightening Torque	8	3.0 N•m [5.9 lb•ft]				
Weight	117g [4.13 oz]	96.7 g	[3.41 oz]			
Connectors	M12 conr	ector, 2 lock nuts included				
Agency Approvals	cULus file E328811, CE					

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

1-800-633-0405 **CT Series Capacitive Proximity Sensors**

Wiring Diagrams

Diagram 1

NPN Cable BROWN L+ BLACK BLUE L-

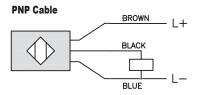
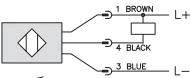
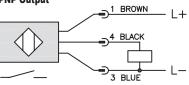


Diagram 2 NPN Output









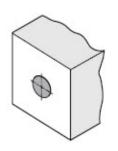


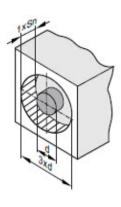
Mounting

NOTE: If the required clear space is not observed for non-flush units, the sensor is predamped. This may lead to permanent switching. Non-flush sensors may be installed flush in non-conductive materials and have to be installed in non-flush in conductive materials.



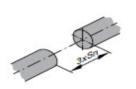
Non-flush

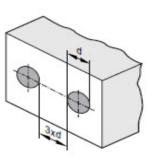


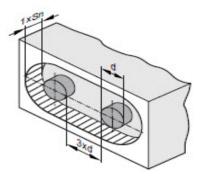


Flush





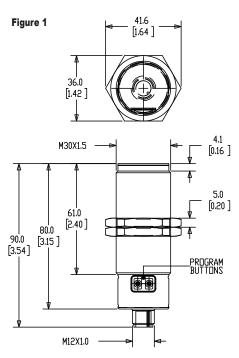


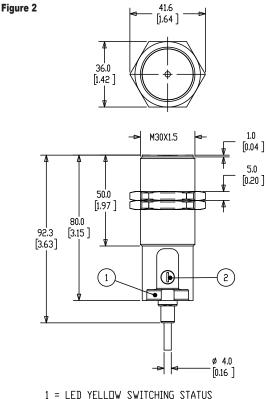


1-800-633-0405 **T Series Capacitive Proximity Sensors**

Dimensions

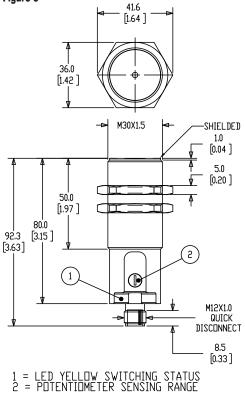
mm [inches]





1 = LED YELLOW SWITCHING STATUS 2 = POTENTIOMETER SENSING RANGE

Figure 3



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

For the latest prices, please check AutomationDirect.com.

1-800-633-0405 **Capacitive Proximity Sensors - Accessories**



Mounting Well

Mounting Adapter

Capacitive Proximity Sensors Accessory Chart								
Part Number	Price	Description	Material	Dimensions				
Mounting Adapter	Mounting Adapter							
<u>CR1-ADPTR</u>	R \$4.50 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								
<u>MWT-01</u>	\$52.00	30mm [1.18 in] sensor mounting well	PTFE - Polytetrafluoroethylene (Teflon®)	Figure 2				
<u>MWK-01</u>	\$42.50	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

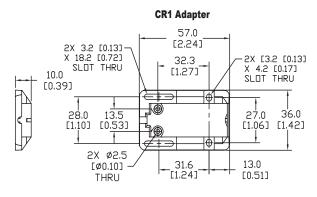


Figure 2



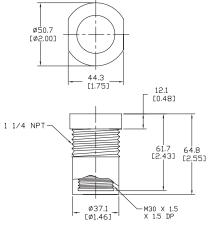
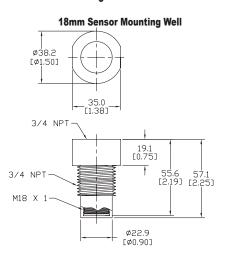


Figure 3



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

Accessories for 30mm Sensors

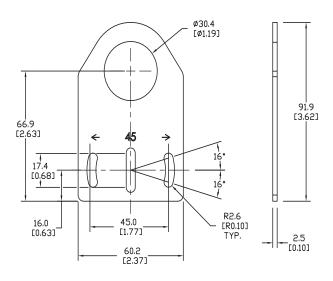
Axial Mounting Bracket

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]

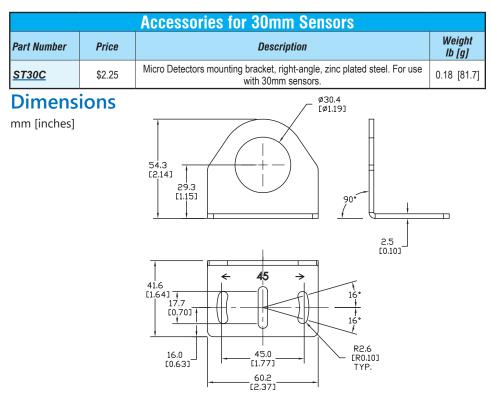




<u>ST30A</u>

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.





<u>ST30C</u>

1-800-633-0405 Accessories for 30mm Sensors

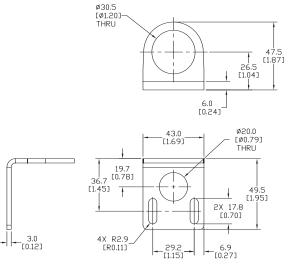
Right-angle Mounting Bracket

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

Accessories for FW Series Sensors						
Part Number	Part Number Price Description					
<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	rt 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				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]				

