





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		
Pushbutton select	Pushbutton select and teach									
CT1-00-2H	\$84.00	40 mm [1.58 in]	Non-flush	N.O./N.C.	NPN/PNP	M12 [12mm] quick-disconnect	Diagram 2	Figure 1		
Potentiometer sen	Potentiometer sensitivity adjustment									
CT2-AP-1A	\$63.00	15mm [0.59 in]	Flush	N.O.	PNP	2m [6.5 ft] cable	Diagram 1	Figure 2		
CT2-AP-1H	\$63.00	15mm [0.59 in]	Flush	N.O.	PNP	M12 micro DC connector	Diagram 2	Figure 3		
CT2-CP-1A	\$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		
CT2-AN-2H	\$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		
CT2-AP-2H	\$63.00	25mm [0.98 in]	Non-flush	N.O.	PNP	M12 micro DC connector	Diagram 2	Figure 3		
CT2-CN-2A	\$63.00	25mm [0.98 in]	Non-flush	N.C.	NPN	2m [6.5 ft] cable	Diagram 1	Figure 2		
CT2-CN-2H	\$63.00	25mm [0.98 in]	Non-flush	N.C.	NPN	M12 micro DC connector	Diagram 2	Figure 3		
CT2-CP-2A	\$63.00	25mm [0.98 in]	Non-flush	N.C.	PNP	2m [6.5 ft] cable	Diagram 1	Figure 2		
CT2-CP-2H	\$63.00	25mm [0.98 in]	Non-flush	N.C.	PNP	M12 micro DC connector	Diagram 2	Figure 3		

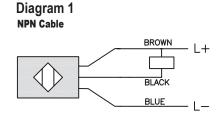
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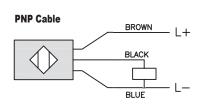
CT Series Capacitive Proximity Specifications						
Model	<u>CT1-00-2H</u>	CT2-xx-xx	СТ2-хх-хх			
Mounting Type	Non-flush	Flush	Non-flush			
Nominal Sensing Distance	40mm [1.58 in]	15mm [0.59 in]	25mm [0.98 in]			
Sensitivity	Push to teach	Potenti	ometer			
Operating Distance		NA				
Material Correction Factors		IVA				
Output Type	NF	PN/PNP; N.O./N.C.				
Operating Voltage	10 to 36VDC	10 to 3	0VDC			
No-load Supply Current	< 20mA	< 22	łmA			
Operating (Load) Current		200mA				
Off-state (Leakage) Current		NA				
Voltage Drop		< 2.5 VDC				
Switching Frequency	10Hz	401	Hz			
Differential Travel (% of Nominal Distance)						
Repeat Accuracy	NA					
Ripple						
Time Delay Before Availability (tv)						
Reverse Polarity Protection	Yes					
Short-circuit Protection		Yes, pulsed				
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	IEC IP65/IF	P67/IP69K			
Indication/Switch Status	Yello	w [output energized]				
Housing Material	Polybuty	lene terephthalate [PBT]				
Sensing Face Material	Polybutylene terephthalate [PBT]					
Shock/Vibration	DIN EN 60947-5-2					
Tightening Torque		3.0 N•m [5.9 lb•ft]				
Weight	117g [4.13 oz]	96.7 g [3	3.41 oz]			
Connectors	M12 conn	ector, 2 lock nuts included				
Agency Approvals	cUL	us file E328811, CE				

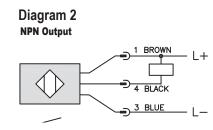
To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

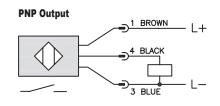
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Wiring Diagrams









Connector M12 connector

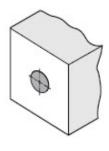


Mounting

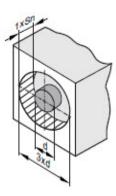
NOTE: If the required clear space is not observed for non-flush units, the sensor is predamped. This may lead to permanent switching.

Non-flush sensors may be installed flush in non-conductive materials and have to be installed in non-flush in conductive materials.

Flush

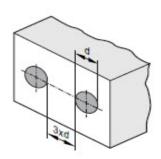


Non-flush

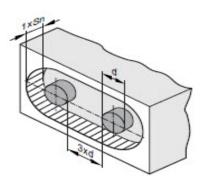


Flush



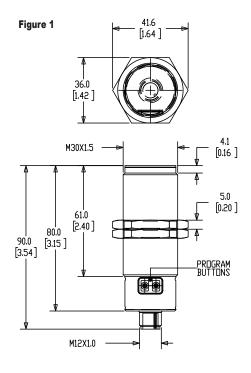


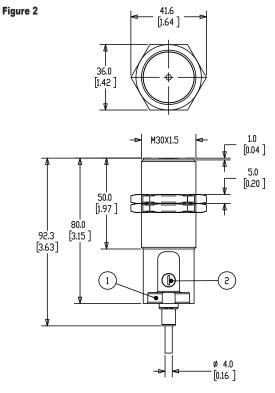
Non-flush



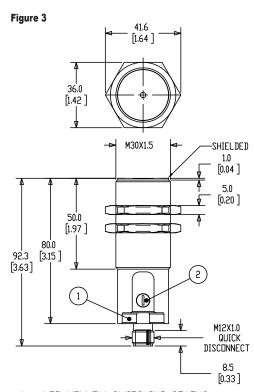
Dimensions

mm [inches]





1 = LED YELLOW SWITCHING STATUS 2 = POTENTIOMETER SENSING RANGE



1 = LED YELLOW SWITCHING STATUS 2 = POTENTIOMETER SENSING RANGE

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	\$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	Mounting Wells				
MWT-01	\$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

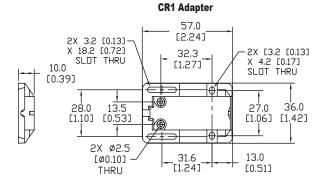
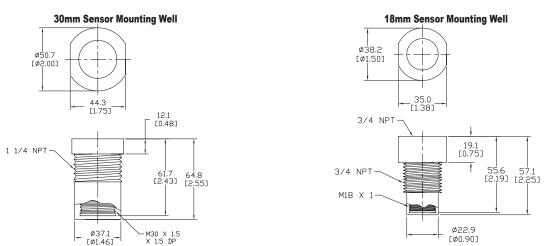


Figure 2 Figure 3



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

Accessories for 30mm Sensors

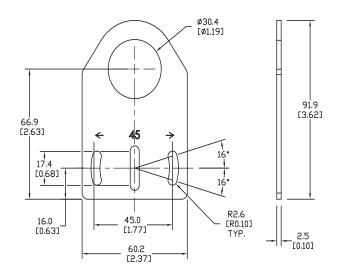
Axial Mounting Bracket

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 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]





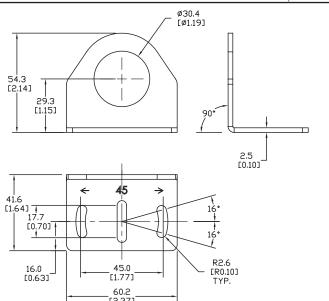
Right-angle Mounting Bracket

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]



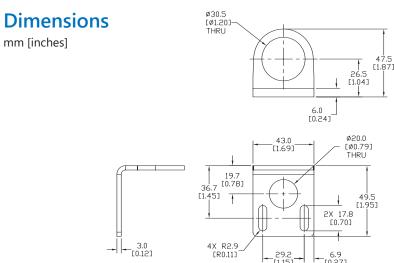


Accessories for 30mm Sensors

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	Drawing Link	Weight lb (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 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]			



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