# The latest prices, please check Au **CT Series Capacitive Proximity Sensors**



#### M30 (30mm) metal

- Potentiometer sensitivity adjustment
- N.O. or N.C. units
- IP65 rated
- LED status indicators
- 2m (6.5 ft) axial cable
- Mounting accessories available



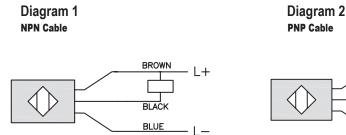
CT Series Capacitive Proximity Selection Chart								
Part Number	Price	Sensing Distance	Mounting	Output State	Logic	Connection	Wiring	Dimensions
Metal Housing								
<u>CT1-AN-1A</u>	\$87.00	15mm [0.59 in]	Flush	N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 1
<u>CT1-AP-1A</u>	\$87.00	15mm [0.59 in]	Flush	N.O.	PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 1
<u>CT1-AN-2A</u>	\$87.00	20mm [0.79 in]	Non-flush	N.O.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 1
<u>CT1-AP-2A</u>	\$87.00	20mm [0.79 in]	Non-flush	N.O.	PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 1
CT1-CN-2A	\$87.00	20mm [0.79 in]	Non-flush	N.C.	NPN	2m [6.5 ft] axial cable	Diagram 1	Figure 1
<u>CT1-CP-2A</u>	\$87.00	20mm [0.79 in]	Non-flush	N.C.	PNP	2m [6.5 ft] axial cable	Diagram 2	Figure 1

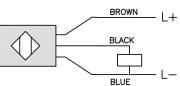
CT Series Capacitive Proximity Specifications						
Part Number	CT1-xx-1X	CT1-xx-2X				
Mounting Type	Flush	Non-flush				
Nominal Sensing Distance	15mm [0.59 in]	20mm [0.79 in]				
Sensitivity	20-turn potentiometer					
Operating Distance	NA					
Material Correction Factors						
Output Type	NPN/PNP	; N.O./N.C.				
Operating Voltage	10 to 3	30VDC				
No-load Supply Current	8r	nA				
Operating (Load) Current	m20	00mA				
Off-state (Leakage) Current	m1	θμΑ				
Voltage Drop	1.8 volts maximum					
Switching Frequency	100Hz					
Differential Travel (% of Nominal Distance)	2 to 20%					
Repeat Accuracy	10	)%				
Ripple	m10%					
Time Delay Before Availability (tv)	ne Delay Before Availability (tv) 100ms					
Reverse Polarity Protection	Yı	es				
Short-circuit Protection	Yes (switch auto-resets a	after overload is removed)				
Operating Temperature	-25 to +70°C [-13 to 158°F]					
Protection Degree (DIN 40050)	IEC IP65					
Indication/Switch Status	Green (supply, Red [I	NO output energized])				
Housing Material	Nickel-pla	ated brass				
Sensing Face Material	Polybutylene Ter	rephthalate [PBT]				
Shock/Vibration	Shock/Vibration DIN EN 60947-5-2					
Tightening Torque	50N•m [36.9 lb•ft]					
Weight	280g [19.88oz]					
Connectors	Connectors 2m [6.5 ft] axial cable, 2 lock nuts included					
Agency Approvals	C	E				

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**

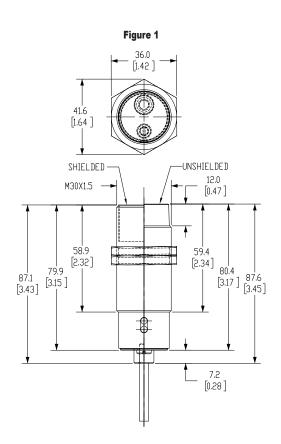
# Wiring Diagrams





# Dimensions

mm [inches]



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>	\$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

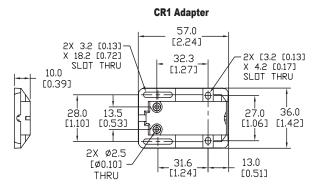


Figure 2



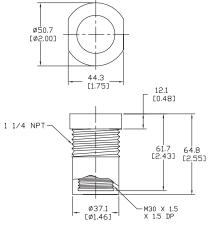
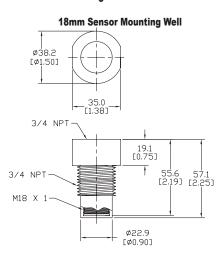


Figure 3



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

# Accessories for 30mm Sensors

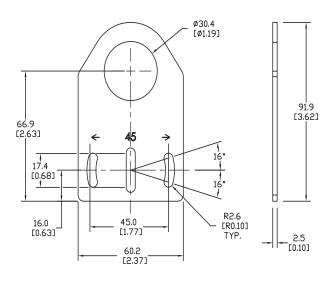
# **Axial Mounting Bracket**

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]

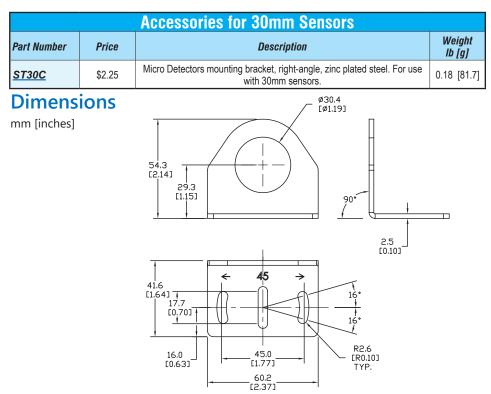




<u>ST30A</u>

# **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

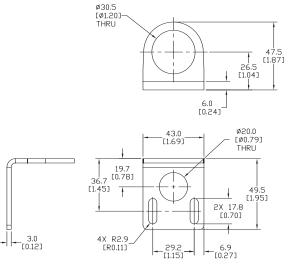
# **Right-angle Mounting Bracket**

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

	Accessories for FW Series Sensors					
Part Number	Price	Description	Weight Ib [g]			
<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	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			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]			

