CT Series Capacitive Proximity Sensors



M30 (30mm) metal

- Potentiometer sensitivity adjustment
- NO or NC units
- IP65 rated
- LED status indicators
- 2m (6.56 ft) axial cable
- Mounting accessories available



CT Series Capacitive Prox Selection Chart									
Part Number	Price	Sensing Distance	Mounting	Output State	Logic	Connection	Wiring	Dimensions	
Metal Housing									
CT1-AN-1A		15mm (0.59 in)	Flush	N.O.	NPN	2m (6.56 ft) axial cable	Diagram 1	Figure 1	
CT1-AP-1A		15mm (0.59 in)	Flush	N.O.	PNP	2m (6.56 ft) axial cable	Diagram 2	Figure 1	
CT1-AN-2A		20mm (0.79 in)	Non-flush	N.O.	NPN	2m (6.56 ft) axial cable	Diagram 1	Figure 1	
CT1-AP-2A		20mm (0.79 in)	Non-flush	N.O.	PNP	2m (6.56 ft) axial cable	Diagram 2	Figure 1	
CT1-CN-2A		20mm (0.79 in)	Non-flush	N.C.	NPN	2m (6.56 ft) axial cable	Diagram 1	Figure 1	
CT1-CP-2A		20mm (0.79 in)	Non-flush	N.C.	PNP	2m (6.56 ft) axial cable	Diagram 2	Figure 1	

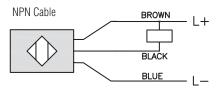
CT Series Specifications	CT1-xx-1x	CT1-xx-2x			
Mounting Type	Flush	Non-flush			
Nominal Sensing Distance	15mm (0.59 in)	20mm (0.79 in)			
Sensitivity	20-turn potentiometer				
Operating Distance	NA				
Material Correction Factors	NA				
Output Type	NPN/PNP; N.O./N.C.				
Operating Voltage	10 to 30	VDC			
No-load Supply Current	8m/	A			
Operating (Load) Current	m200	mA			
Off-state (Leakage) Current	m10µ	A			
Voltage Drop	1.8 volts m	aximum			
Switching Frequency	1001	łz			
Differential Travel (% of Nominal Distance)	2 to 20%				
Repeat Accuracy	10%	0			
Ripple	m10'	%			
Time Delay Before Availability (tv)	100n	าร			
Reverse Polarity Protection	Yes	;			
Short-circuit Protection	Yes (switch auto-resets after	er overload is removed)			
Operating Temperature	-25° to +70°C (-13° to 158°F)				
Protection Degree (DIN 40050)	IEC IF	765			
Indication/Switch Status	Green (supply, Red [NO output energized])				
Housing Material	Nickel-plat	ed brass			
Sensing Face Material	Polybutylene Tere	ohthalate (PBT)			
Shock/Vibration	DIN EN 60	947-5-2			
Tightening Torque	50N•m (36	5.9 lb•ft)			
Weight	280g (19	.88oz)			
Connectors	2m (6.56 ft) axial cable,	2 lock nuts included			
Agency Approvals	CE				

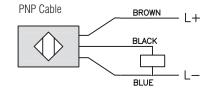
CT Series Capacitive Proximity Sensors

Wiring diagrams

Diagram 1

Diagram 2

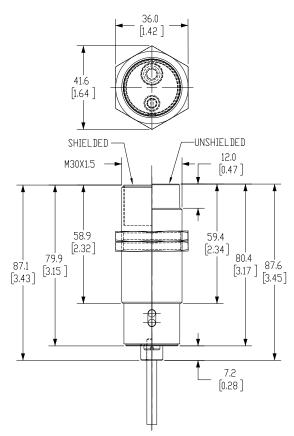




Dimensions

mm [inches]

Figure 1



See our websfite: for compflete englineerfing drawfings

Capacitive Proximity Sensors - Accessories



Mounting Well

Mounting Adapter

Capacitive Proximity Sensors Accessory Chart							
Part Number	Imber Price Description Material		Material	Dimensions			
Mounting Adapter							
CR1-ADPTR		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			· · · · · ·				
MWT-01		30mm (1.18 in) sensor mounting well	PTFE - Polytetrafluoroethylene (Teflon $^{\textcircled{R}}$) Temp: -25° to 246°C (-13° to 474.8°F)	Figure 2			
MWK-01		18mm (0.71 in) sensor mounting well	Max. pressure: 100 PSI (6.9 bar)	Figure 3			

Dimensions

mm [inches]



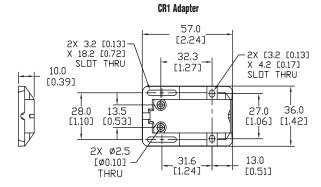


Figure 2



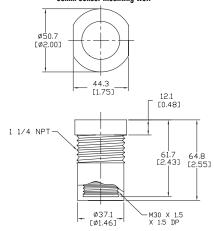
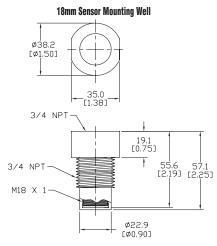


Figure 3



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tSEN-170

Accessories for 30mm Sensors

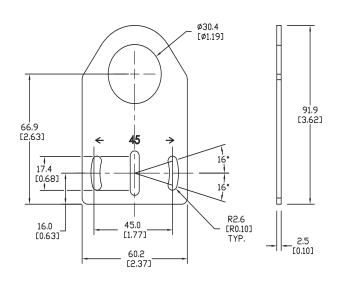
Axial Mounting Bracket

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	Part Number Price Description				
<u>ST30A</u>		Mounting bracket, axial, zinc plated steel. For use with 30mm sensors.	0.18 (81.7)		

Dimensions

mm [inches]

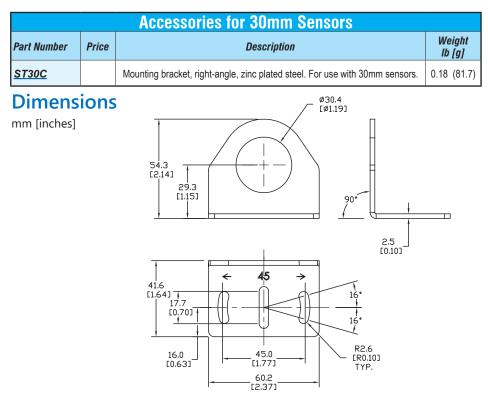




ST30A

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.





ST30C

Accessories for 30mm Sensors

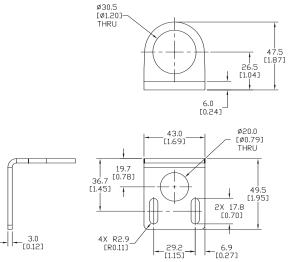
Right-angle Mounting Bracket

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>		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>		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>		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: OPT2109 (200mm [7.87 in] length), OPT2110 (300mm [11.81 in] length), and OPT2111 (500mm [19.69 in] length).

OPT2118, OPT2119

Mounting Rods and Brackets

Mounting Rods

304 Stainless steel rods for mounting swivel brackets OPT2112 - OPT2127. Available in three lengths: 200mm, 300mm, and 500mm. 12mm diameter.

Mo	Mounting Rods for OPT2112-2127 Swivel Mounting Brackets						
Part Number	Part Number Price Description		Drawing Link	Weight Ib (g)			
<u>OPT2109</u>		Wenglor mounting rod, 12mm diameter, 200mm length, 304 stainless steel.	PDF	0.41 (185.97)			
<u>OPT2110</u>		Wenglor mounting rod, 12mm diameter, 300mm length, 304 stainless steel.	PDF	0.60 (272.16)			
<u>OPT2111</u>		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>		Wenglor mounting bracket, right-angle, nickel plated brass. For use with 12mm mounting rods OPT2109, OPT2110 & OPT2111.	<u>PDF</u>	0.07 (31.8)		

