





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 (6.56 ft) cable or M12 quick-disconnect; purchase cable separately
- Mounting accessories available



	CT Series Capacitive Prox Selection Chart								
Part Number	Price	Sensing Distance	Mounting	Output State	Logic	Connection	Wiring	Dimensions	
Pushbutton select and teach									
CT1-00-2H		40 mm (1.58 in)	Non-flush	N.O./N.C.	NPN/PNP	M12 (12mm) quick-disconnect	Diagram 2	Figure 1	
Potentiometer s	ensitivity	adjustment							
CT2-AP-1A		15mm (0.59 in)	Flush	N.O.	PNP	2m (6.56 ft) cable	Diagram 1	Figure 2	
CT2-AP-1H		15mm (0.59 in)	Flush	N.O.	PNP	M12 micro DC connector	Diagram 2	Figure 3	
CT2-CP-1A		15mm (0.59 in)	Flush	N.C.	PNP	2m (6.56 ft) cable	Diagram 1	Figure 2	
CT2-CP-1H		15mm (0.59 in)	Flush	N.C.	PNP	M12 micro DC connector	Diagram 2	Figure 3	
CT2-AN-2A		25mm (0.98 in)	Non-flush	N.O.	NPN	2m (6.56 ft) cable	Diagram 1	Figure 2	
CT2-AN-2H		25mm (0.98 in)	Non-flush	N.O.	NPN	M12 micro DC connector	Diagram 2	Figure 3	
CT2-AP-2A		25mm (0.98 in)	Non-flush	N.O.	PNP	2m (6.56 ft) cable	Diagram 1	Figure 2	
CT2-AP-2H		25mm (0.98 in)	Non-flush	N.O.	PNP	M12 micro DC connector	Diagram 2	Figure 3	
CT2-CN-2A		25mm (0.98 in)	Non-flush	N.C.	NPN	2m (6.56 ft) cable	Diagram 1	Figure 2	
CT2-CN-2H		25mm (0.98 in)	Non-flush	N.C.	NPN	M12 micro DC connector	Diagram 2	Figure 3	
CT2-CP-2A		25mm (0.98 in)	Non-flush	N.C.	PNP	2m (6.56 ft) cable	Diagram 1	Figure 2	
CT2-CP-2H		25mm (0.98 in)	Non-flush	N.C.	PNP	M12 micro DC connector	Diagram 2	Figure 3	

CT Series Specifications	CT1-00-2H	CT2-	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	iometer			
Operating Distance		NA				
Material Correction Factors		IVA				
Output Type	ľ	NPN/PNP; N.O./N.C.				
Operating Voltage	10 to 36VDC	10 to 3	BOVDC			
No-load Supply Current	< 20mA	< 22	2mA			
Operating (Load) Current		200mA				
Off-state (Leakage) Current		NA				
Voltage Drop		< 2.5 VDC				
Switching Frequency	10Hz	40Hz				
Differential Travel (% of Nominal Distance)						
Repeat Accuracy						
Ripple	NA					
Time Delay Before Availability (tv)						
Reverse Polarity Protection		Yes				
Short-circuit Protection		Yes, pulsed				
Operating Temperature		to 80°C (-13° to 176°F) : -25° to 110°C (-13° to 230°F)				
Protection Degree (DIN 40050)	IEC IP65/IP67	IEC IP65/I	P67/IP69K			
Indication/Switch Status	Yel	llow (output energized)				
Housing Material	Polybu	utylene terephthalate (PBT)				
Sensing Face Material	Polybu	utylene terephthalate (PBT)				
Shock/Vibration		DIN EN 60947-5-2				
Tightening Torque		8.0 N•m (5.9 lb•ft)				
Weight	117g (4.13 oz)	96.7 g (3.41 oz)				
Connectors	M12 cor	nnector, 2 lock nuts included				
Agency Approvals	cl	JLus file E328811, CE				

Wiring diagrams

Diagram 1 **NPN Cable** BLUE

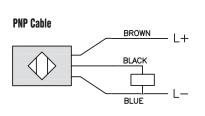
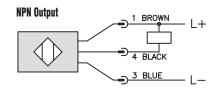
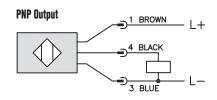


Diagram 2





Connector

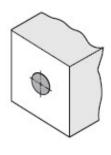


M12 connector

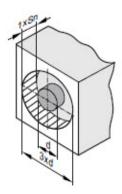
Mounting

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

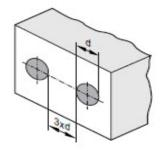


Non-flush

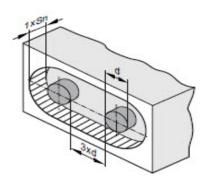


Flush



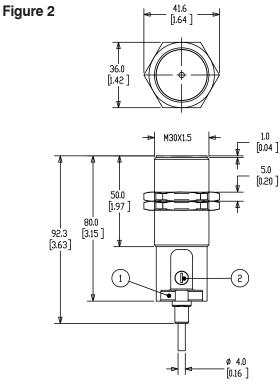


Non-flush

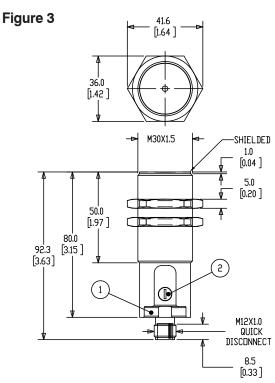


Dimensions

mm [inches]



1 = LED YELLOW SWITCHING STATUS 2 = POTENTIOMETER SENSING RANGE



1 = LED YELLOW SWITCHING STATUS 2 = POTENTIOMETER SENSING RANGE

Capacitive Proximity Sensors - Accessories



Mounting Adapter

Capacitive Proximity Sensors Accessory Chart					
Part Number Price Description Material Din					
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®)	Figure 2	
MWK-01		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

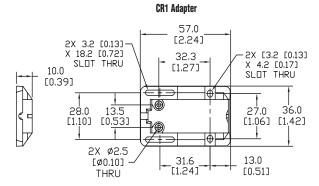
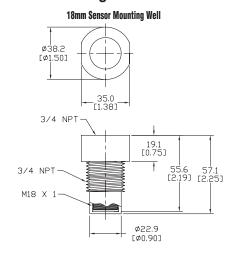


Figure 2

Figure 3



See our websfite: for compflete englineerfing drawfings

Accessories for 30mm Sensors

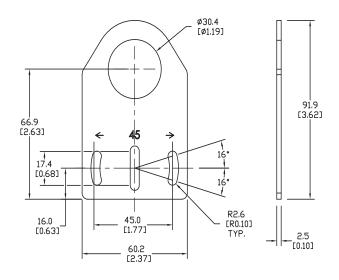
Axial Mounting Bracket

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>		Mounting bracket, axial, zinc plated steel. For use with 30mm sensors.	0.18 (81.7)		

Dimensions

mm [inches]





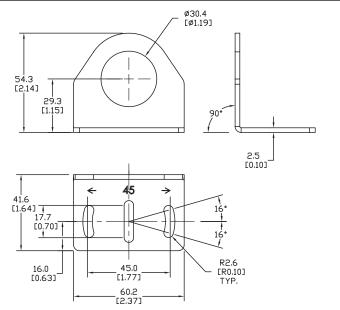
Right-angle Mounting Bracket

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	Part Number Price Description					
<u>ST30C</u>		Mounting bracket, right-angle, zinc plated steel. For use with 30mm sensors.	0.18 (81.7)			

Dimensions

mm [inches]



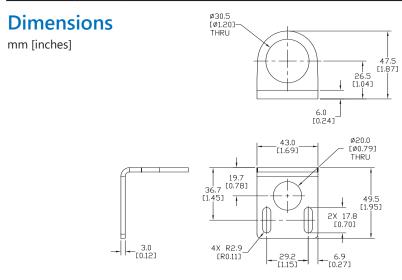


Accessories for 30mm Sensors

Right-angle Mounting Bracket

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

Accessories for FW Series Sensors						
Part Number Price Description		Description	Weight lb [g]			
<u>ST30C6W</u>		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>		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.

Mounting Rods for OPT2112-2127 Swivel Mounting Brackets							
Part Number	Price	Description	Drawing Link	Weight lb (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.	<u>PDF</u>	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)			

