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



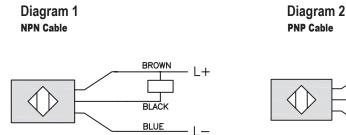
| CT Series Capacitive Proximity Selection Chart | | | | | | | | | |
|--|---------|---|-----------|--------|------------|-------------------------|-----------|----------|--|
| Part Number | Price | e Sensing Distance Mounting Output State Logic Connection | | Wiring | Dimensions | | | | |
| Metal Housing | | | | | | | | | |
| <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 | |

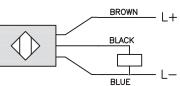
| CT Series Capacitive Proximity Specifications | | | | | | |
|---|--|----------------------------|--|--|--|--|
| Part Number | CT1-xx-1X | CT1-xx-2X | | | | |
| Mounting Type | Flush | Non-flush | | | | |
| Nominal Sensing Distance | 15mm [0.59 in] | 20mm [0.79 in] | | | | |
| Sensitivity | 20-turn potentiometer | | | | | |
| Operating Distance | | 14 | | | | |
| Material Correction Factors | NA | | | | | |
| 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) | e 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 | 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**

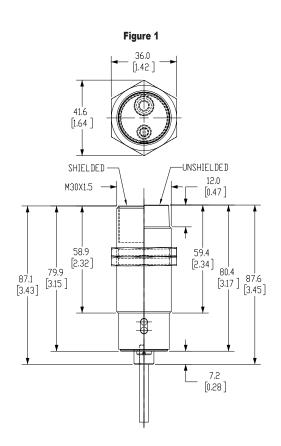
Wiring Diagrams





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**



| Capacitive Proximity Sensors Accessory Chart | | | | | | | |
|--|------------------|---|---|------------|--|--|--|
| Part Number | Price | Description | Material | Dimensions | | | |
| Mounting Adapter | Mounting Adapter | | | | | | |
| CR1-ADPTR \$4.50 Adapter for CR1 series cap | | 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 | | | | | | |
| <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

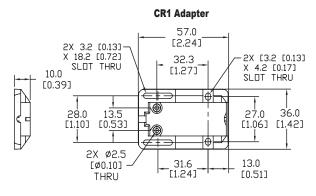


Figure 2



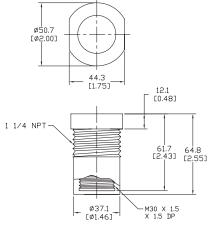
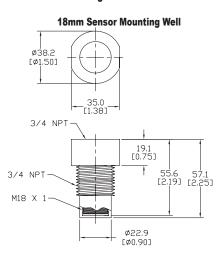


Figure 3



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

Accessories for 30mm Sensors

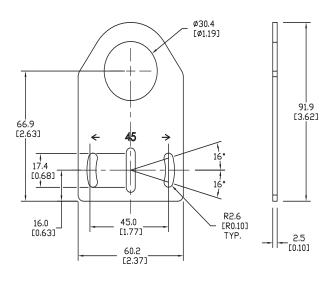
Axial Mounting Bracket

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]

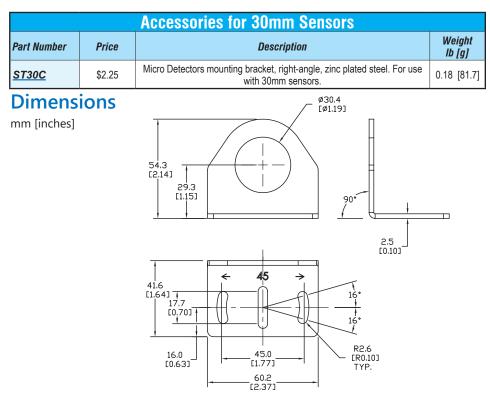




<u>ST30A</u>

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.





ST30C

Accessories for 30mm Sensors

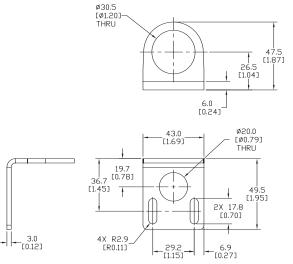
Right-angle Mounting Bracket

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

| Accessories for FW Series Sensors | | | | | |
|-----------------------------------|--------|---|------------------|--|--|
| Part Number | Price | Description | Weight lb [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] | | |

