CR Series Capacitive Proximity Sensors

Rectangular Plastic - DC

- Low profile housing ideal for sight glass applications
- N.O./N.C. selectable
- IP65/IP67 rated
- LED status indicators
- Auto-detect circuit
- Push button teach
- Mounting accessories available

CR Series Capacitive Proximity Selection Chart								
Part Number	Price	Sensing Distance	Mounting	Output State	Logic	Connection	Wiring	Dimensions
CR1-00-2A	$71.00	12 mm [0.47 in]	Non-flush	N.O./N.C.	NPN/PNP	2m [6.5 ft] axial cable	Diagram 1	Figure 1

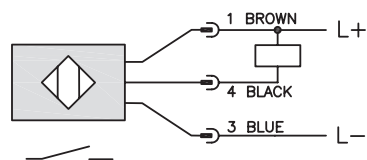| CR Series Capacitive Proximity Specifications	
Mounting Type	Non-flush
Nominal Sensing Distance	12mm [0.47 in]
Operating Distance	NA
Material Correction Factors	
Output Type	NPN/PNP; N.O./N.C.
Operating Voltage	10 to 36VDC
No-load Supply Current	< 17mA
Operating (Load) Current	100mA
Off-state (Leakage) Current	NA
Voltage Drop	< 2.5V
Switching Frequency	10Hz
Differential Travel (% of Nominal Distance)	NA
Repeat Accuracy	
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]
Protection Degree (DIN 40050)	IEC IP65/IP67
Indication/Switch Status	Yellow [output energized]
Housing Material	Polybutylene Terephthalate [PBT]
Sensing Face Material	
Shock/Vibration	DIN EN 60947-5-2
Tightening Torque	NA
Weight	92g [3.25 oz]
Connectors	2m [6.5 ft] axial cable
Agency Approvals	cULus file E328811, CE, RoHS

To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.
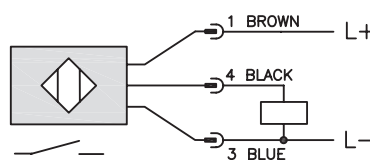
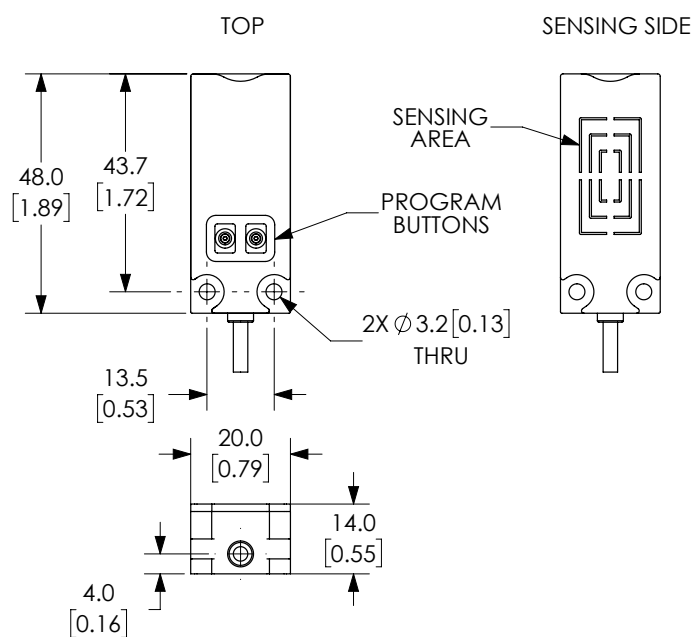# CR Series Capacitive Proximity Sensors

Wiring Diagrams

Diagram 1

NPN Output

PNP Output

Dimensions

mm [inches]

Figure 1

Capacitive Proximity Sensors - Accessories

Mounting Well

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				
MWT-01	$52.00	30mm [1.18 in] sensor mounting well	PTFE - Polytetrafluoroethylene (Teflon®) Temp: -25 to 246°C [-13 to 474.8°F] Max. pressure: 100 PSI [6.9 bar]	Figure 2
MWK-01	$42.50	18mm [0.71 in] sensor mounting well		Figure 3

Dimensions

mm [inches]

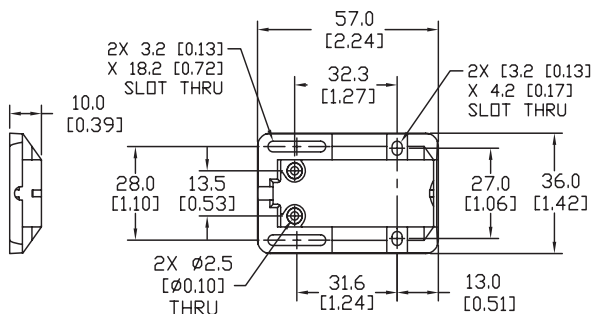**Figure 1**

CR1 Adapter

Figure 2

30mm Sensor Mounting Well

Figure 3

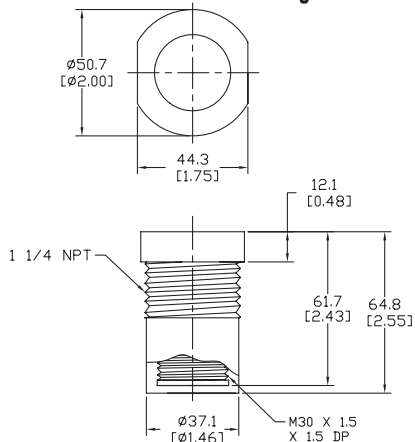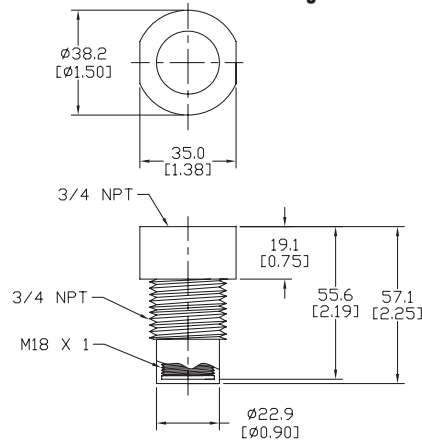**18mm Sensor Mounting Well**

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