

CT Series Capacitive Proximity Sensors

M30 (30 mm) metal – DC



- 6 models available
- Sensitivity adjustment with 20-turns trimmer
- Metal housing with axial cable
- Detects metallic and non-metallic objects
- Complete overload protection
- IP65 rated
- Double LED status indicators

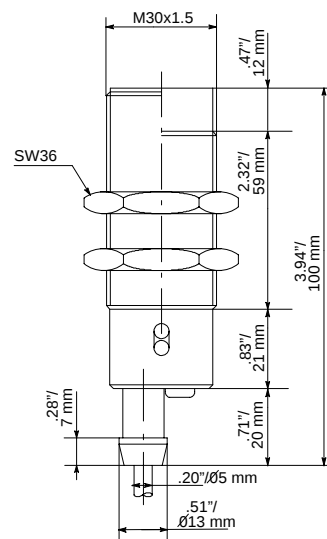
CT Series 30DC Capacitive Prox Sensor Selection Chart

Part Number		Sensing Range	Housing	Output State	Logic	Connection
CT1-AN-1A	<--->	2 to 15mm (0.079-0.59in)	Shielded	N.O.	NPN	2m (6.5') axial cable
CT1-AP-1A	<--->				PNP	2m (6.5') axial cable
CT1-AN-2A	<--->	2 to 20mm (0.079-0.70in)	Unshielded	N.O.	NPN	2m (6.5') axial cable
CT1-AP-2A	<--->				PNP	2m (6.5') axial cable
CT1-CN-2A	<--->	2 to 20mm (0.079-0.70in)	Unshielded	N.C.	NPN	2m (6.5') axial cable
CT1-CP-2A	<--->				PNP	2m (6.5') axial cable

Specifications

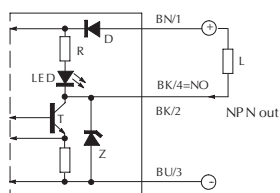
Type	Shielded	Unshielded
Operating Distance	2-15mm (0.079-0.59in)	2-20mm (0.079-0.70in)
Differential Travel	2 to 20%	
Repeat Accuracy	10%	
Operating Voltage	10-30VDC	
Ripple	≤10%	
No-load Supply Current	8mA	
Load Current	≤200mA	
Leakage Current	≤10μA	
Voltage Drop	1.8 volts maximum	
Output Type	NPN or PNP / N.O. or N.C. / 3 wire	
Switching Frequency	100Hz	
(tv) Time Delay Before Availability	100ms	
Input Voltage Transient Protection	Yes, only if transient peak does not exceed 30VDC	
Input Power Polarity Reversal Protection	Yes	
Output Power Short-Circuit Protection	Yes (switch auto-resets after overload is removed)	
Temperature Range	-25° to +70° C (-13° to 158° F)	
Temperature Drift	20% Sr	
Protection Degree (DIN 40050)	IEC IP65	
LED Indicators	Green (supply), Red (N.O. output energized)	
Housing Material	Nickel-plated brass	
Sensing Face Material	PBT	
Tightening Torque	100Nm (73.7lb./ft.)	
Weight (cable/connector)	280g (19.88oz)	

Dimensions

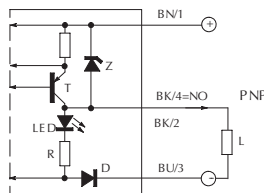


Wiring diagrams

NPN output



PNP output



Cables and Accessories

Cables and accessories can be found starting on page 17-48.