CU2 Sensor Details

Description

Bulletin 872C WorldProx inductive proximity sensors are self-contained, general purpose, solid-state devices designed to sense the presence of ferrous and nonferrous metal objects without touching them.

The switch body consists of a plastic face and a nickel-plated brass barrel. It meets NEMA 1, 2, 3, 4, 6P, 12, 13 and IP67 (IEC 529) enclosure standards. The electronic circuitry is fully potted for protection against shock, vibration, and contamination.

The CU2 is designed to operate with one normally-open NPN and one normally-open PNP inductive proximity sensor.

The sensors translucent end caps glow when the LED indicator is on, and are visible from almost every angle.

The sensors contained in this section are some of the more popular size inductive proximity sensors. See the Rockwell Automation/ Allen-Bradley Sensors catalog for an extensive range of proximity sensors.



Amber Output energized, 360° visibility

Specifications

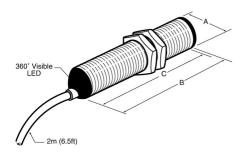
Standards	EN 954-1, ISO 13849-1, IEC/EN 60204-1, IEC 60947-5-1, ANSI B11.19, AS4024.1		
Safety Classification	Cat. 1 per EN 954-1 (ISO 13849-1)		
Certifications	CE Marked for all applicable directives, cULus, c-Tick, and TÜV		
Operating Voltage	1030V DC		
Sensing Distance	2, 5 or 10 mm		
Correction Factors	Mild Steel = 1.0 Stainless Steel = 0.70.8 Brass = 0.40.5 Aluminum = 0.30.4 Copper = 00.3		
Load Current, Max.	200 mA		
Outputs	NPN or PNP normally open		
Leakage Current	≤10 mA		
Sensor Voltage Drop	≤1.64V		
Repeatability	≤2%		
Hysteresis	≤10% typical		
Status Indicators	Red = Output energized		
Operating Temperature [C (F)]	-25+70 ° (-13+158 °)		
Relative Humidity	95%		
Enclosure Type Rating	NEMA 1, 2, 3, 4, 6P, 12, 13, IP67		
Protection	False pulse on power, transient noise, reverse polarity, short circuit, overload		
Cable Size	3 x 1 mm2 (26 AWG) stranded		
Cable Length	2 m (6.5 ft)		
Material	Plastic-faced, nickel-plated brass barrel		
Mounting	M12, M18 or M30 Flush Fitting (Shielded Sensing)/IP20, DIN 0470		
Shock	30 g, 11 ms half-sine		
Vibration	1 mm peak, 1055 Hz		

Note: See Output Ratings on page Output Ratings for details. Consult factory for ratings not shown.

Approximate Dimensions

Dimensions are shown in mm (in.). Dimensions are not intended to be used for installation purposes.





Thread Size	Shielded	mm (inches)		
		Α	B (max)	C (min)
M12 x 1	Yes	12 (0.47)	50.8 (2.00)	46.7 (1.84)
M18 x 1		18 (0.71)		
M30 x 1		30 (1.18)		

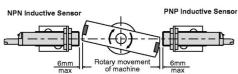
Application Details

Application Accessories



PNP and NPN Inductive Sensors for use with CU2

Sensors detect when motion has ceased by monitoring two targets on moving metal parts. When motion has ceased the CU2 begins timing down. Once preset time limit has been passed the CU2 sends a single allowing locked guard to be opened.





CU1 remote indication unit:

A remote indication unit to indicate the status of the circuit can be connected to the CU 1s, R1, R2 and R3 connections.

Adjustable Time Delay

DIP switches general time setting and the potentiometer fine tunes the time settings. Easy access 500 mAT replaceable fuse.











6 secs. to 5 mins. 10 secs.

48 secs. to 41 mins.

Fine adjustment time setting via





Typical Wiring Diagrams

