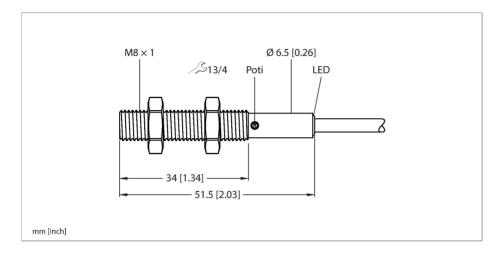


BC2-EM08-UN8X Capacitive Sensor





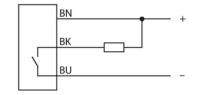
Туре	BC2-EM08-UN8X
ID	100021822
Rated switching distance (flush)	2 mm
Hysteresis	1020 %
Ambient temperature	-25+70 °C
Medium temperature	-25+70 °C
Electrical data	
Operating voltage U _B	1830 VDC
DC rated operating current I _e	≤ 100 mA
No-load current	≤ 15 mA
Switching frequency	0.1 kHz
Isolation test voltage	0.5 kV
Number of digital outputs	1
Output function	3-wire, NO/NC (NO pre-set), NPN
Short-circuit protection	yes
Voltage drop at I _e	≤ 2.4 V
Wire break/reverse polarity protection	yes/Complete
Insulation class	III
Tests/approvals	
Mechanical data	
Design	Threaded barrel, M8 x 1
Dimensions	51.5 mm
Housing material	Stainless steel



Features

- ■M8 × 1 threaded barrel
- Stainless steel housing, probe made of PBT
- Fine adjustment via potentiometer
- ■DC 3-wire, 18...30 VDC
- Adjustable NC/NO contact
- Factory-set NO contact
- ■3-pin cable connection, open strands

Wiring diagram



Functional principle

Capacitive proximity switches are designed for non-contact and wear-free detection of electrically conductive as well as non-conductive metal objects.

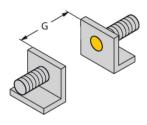


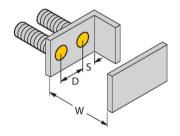
Technical data

Active area material	PBT, yellow
Electrical connection	Cable
Cable quality	Ø 3.4 mm, PUR, 2 m
Core cross-section	3 x 0.14 mm²
Protection class	IP67
MTTF	1080 years acc. to SN 29500 (Ed. 99) 40 °C
Power-on indication	Green
Switching state	LED, Yellow

Mounting instructions

Product features





Distance D	16 mm
Distance W	8 mm
Distance S	12 mm
Distance G	16 mm
Diameter active area B	Ø 8 mm

The given minimum distances have been checked against the standard switching distance.

Should the sensitivity of the sensors be changed via potentiometer, the data sheet specifications no longer apply.

2|3



TURCK



LED	Meaning
Yellow	Operating mode NO: Object detected
	Operating mode NC: Object not detected
Flashes yellow 1 ×	Potentiometer counterclockwise:
	Sensor at minimum switching distance
	Potentiometer clockwise:
	Sensor at maximum switching distance
Flashes yellow 3 ×	NO/NC switching successful

For a detailed description of the NO/NC switching, see Quick Start Guide BC2-EM08-Ux8X... (100034228.pdf)