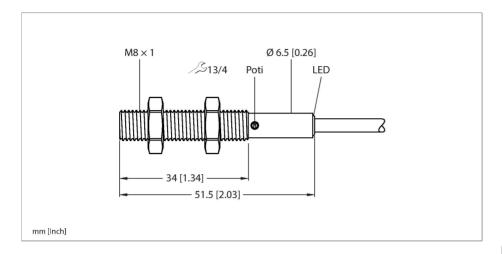


BC2-EM08-UP8X Capacitive Sensor





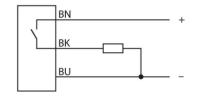
Туре	BC2-EM08-UP8X
ID	100021821
Rated switching distance (flush)	2 mm
Hysteresis	1020 %
Ambient temperature	-25+70 °C
Medium temperature	-25+70 °C
Electrical data	
Operating voltage U _B	1830 VDC
DC rated operating current I _o	≤ 100 mA
No-load current	≤ 15 mA
Switching frequency	0.1 kHz
Isolation test voltage	0.5 kV
Number of digital outputs	1
Output function	3-wire, NO/NC (NO pre-set), PNP
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.

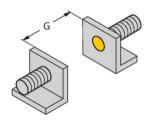


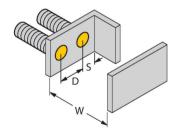
Technical data

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.





LED status indicators

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)