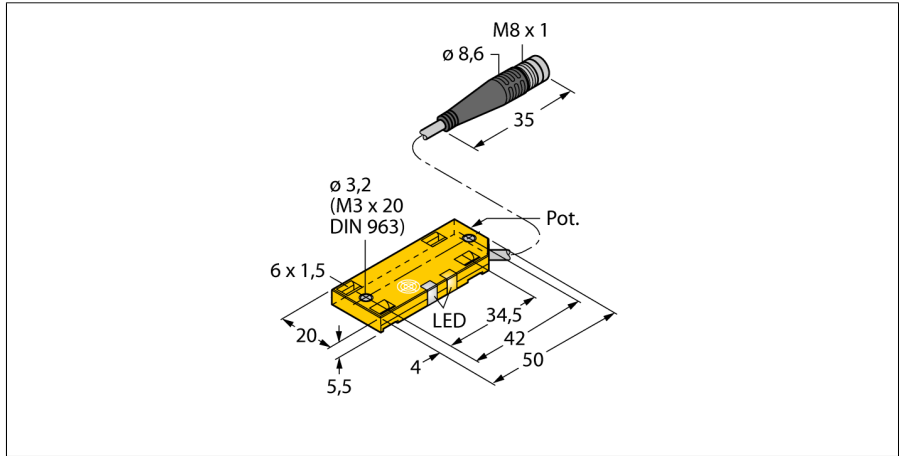


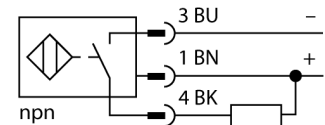
# Capacitive Sensor

## BC10-QF5.5-AN6X2-0.2M-PSG 3



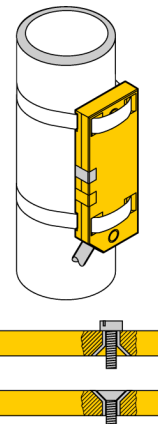
- Rectangular, height 5.5 mm
- Active face on top
- Plastic, PP
- Fine adjustment via potentiometer
- DC 3-wire, 10...30 VDC
- NO contact, NPN output
- M8 × 1 connector

### 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.



<b>Type</b>	BC10-QF5.5-AN6X2-0.2M-PSG 3
<b>ID</b>	2620186
<b>Rated switching distance (flush)</b>	10 mm
Rated switching distance (non-flush)	10 mm
Secured operating distance	≤ (0.72 × S <sub>n</sub> ) mm
Hysteresis	1...20 %
Temperature drift	Typical 20 %
Repeat accuracy	≤ 2 % of full scale
Ambient temperature	-25...+70 °C
<b>Electrical data</b>	
Operating voltage	10...30 VDC
Residual ripple	≤ 10 % U <sub>ss</sub>
DC rated operational current	≤ 200 mA
No-load current I <sub>0</sub>	≤ 15 mA
Residual current	≤ 0.1 mA
Switching frequency	0.1 kHz
Oscillation frequency	According to EN 60947-5-2, 8.2.6.2 Table 9: 0.1... 2.0 MHz
Isolation test voltage	≤ 0.5 kV
Output function	3-wire, NO contact, NPN
Short-circuit protection	yes/ Cyclic
Voltage drop at I <sub>0</sub>	≤ 1.8 V
Wire breakage/Reverse polarity protection	yes/ Complete
<b>Tests/approvals</b>	
<b>Mechanical data</b>	
Design	Rectangular, QF5,5
Dimensions	54 × 20.3 × 5.5 mm
Housing material	Plastic, PP
Electrical connection	Cable with connector, M8 × 1
Cable quality	Ø 3mm, LiFY-11Y, PUR, 0.2 m
Core cross-section	3 × 0.14 mm <sup>2</sup> mm <sup>2</sup>
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
MTTF	1080 years acc. to SN 29500 (Ed. 99) 40 °C
<b>Power-on indication</b>	LED, Green
Switching state	LED, Yellow