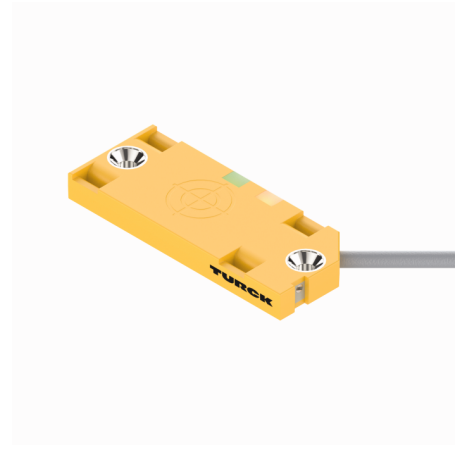
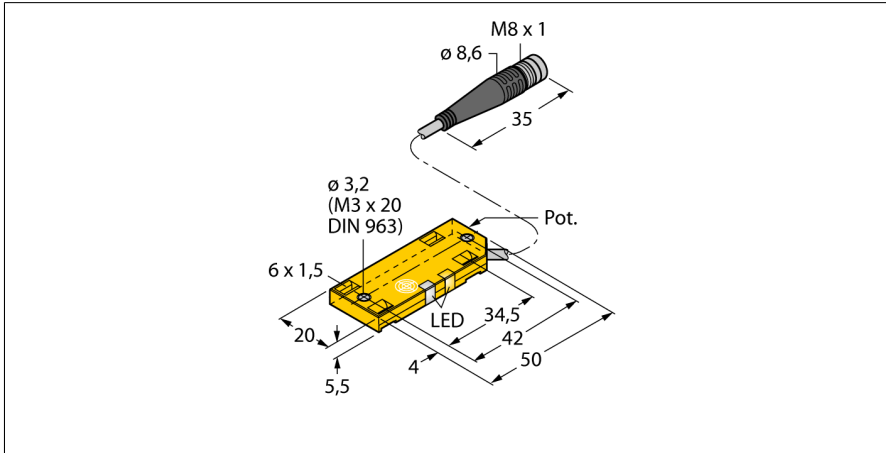


# Capacitive Sensor

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



Type	BC10-QF5.5-AN6X2-0.2M-PSG 3
ID	2620186

Rated switching distance (flush)	10 mm
Rated switching distance (non-flush)	10 mm
Secured operating distance	$\leq (0.72 \times S_n)$ mm
Hysteresis	1...20 %
Temperature drift	Typical 20 %
Repeat accuracy	$\leq 2$ % of full scale
Ambient temperature	-25...+70 °C

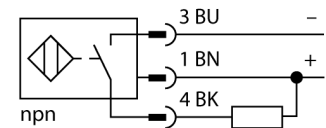
Electrical data	
Ripple $U_{\text{rs}}$	$\leq 10$ % $U_{\text{Bmax}}$
DC rated operating current $I_{\text{e}}$	$\leq 200$ mA
No-load current $I_{\text{o}}$	$\leq 15$ mA
Residual current	$\leq 0.1$ mA
Switching frequency	0.1 kHz
Oscillation frequency	According to EN 60947-5-2, 8.2.6.2 Table 9: 0.1... 2.0 MHz
Isolation test voltage	0.5 kV
Output function	3-wire, NO contact, NPN
Short-circuit protection	yes/Cyclic
Voltage drop at $I_{\text{e}}$	$\leq 1.8$ V
Wire break/reverse polarity protection	yes/Complete

### Tests/approvals

Mechanical data	
Design	Rectangular, QF5,5
Dimensions	54 x 20.3 x 5.5 mm
Housing material	Plastic, PP
Electrical connection	Cable with connector, M8 x 1
Cable quality	$\varnothing$ 3mm, LiFY-11Y, PUR, 0.2 m
Core cross-section	3 x 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

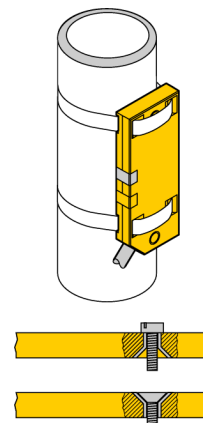
- Rectangular, height 5.5 mm
- Active face on top
- Plastic, PP
- Fine adjustment via potentiometer
- DC 3-wire, 10...30 VDC
- NO contact, NPN output
- M8 x 1 connector

### 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.



Power-on indication	LED, Green
Switching state	LED, Yellow

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