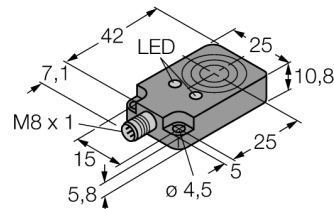


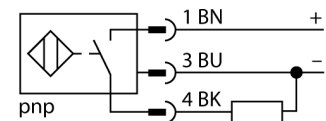
Capacitive Sensor

BC8-Q10-AP6X2-V1131/S250



- Rectangular, height 10.8mm
- Active face on top
- Plastic, PBT-GF30-V0
- Fixed settings
- DC 3-wire, 10...30 VDC
- NO contact, PNP 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.

Type	BC8-Q10-AP6X2-V1131/S250
ID	2621201
Rated switching distance (flush)	8 mm
Rated switching distance (non-flush)	8 mm
Secured operating distance	$\leq (0.72 \times S_n)$ mm
Hysteresis	1...20 %
Temperature drift	Typical 20 %
Repeat accuracy	≤ 2 % of full scale
Ambient temperature	-25...+70 °C
Electrical data	
Operating voltage	10...30 VDC
Residual ripple	≤ 10 % U_{in}
DC rated operational current	≤ 200 mA
No-load current I_0	≤ 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, PNP
Short-circuit protection	yes/ Cyclic
Voltage drop at I_0	≤ 1.8 V
Wire breakage/Reverse polarity protection	yes/ Complete
Tests/approvals	
Approvals	UL
UL registration number	E210608
Mechanical data	
Design	Rectangular, Q10
Dimensions	42 x 25 x 10.8 mm
Housing material	Plastic, PBT-GF30-V0
Electrical connection	Connector, M8
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

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