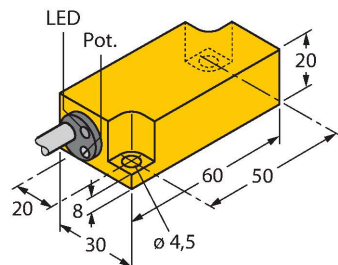


BCF10-Q20L60-RP4X

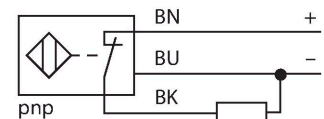
Capacitive Sensor



Features

- Fine adjustment via potentiometer
- Increased EMI protection (even with high frequency equipment)
- Suited for highly viscous media
- DC 3-wire, 10...65 VDC
- NC contact, PNP output
- Cable connection

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

Type	BCF10-Q20L60-RP4X
ID	2504037
Rated switching distance (flush)	10 mm
Rated switching distance (non-flush)	10 mm
Secured operating distance	$\leq (0.72 \times S_n) \text{ mm}$
Hysteresis	1...20 %
Temperature drift	Typical 20 %
Repeat accuracy	$\leq 2 \%$ of full scale
Ambient temperature	-25...+70 °C
Electrical data	
Operating voltage U_B	65 VDC
	10...30 VDC for use in China
Ripple U_{ss}	$\leq 10 \%$ U_{Bmax}
DC rated operating current I_e	$\leq 200 \text{ mA}$
No-load current	$\leq 15 \text{ mA}$
Residual current	$\leq 0.1 \text{ mA}$
Switching frequency	0.1 kHz
Isolation test voltage	0.5 kV
Output function	3-wire, NC contact, PNP
Short-circuit protection	yes/Cyclic
Voltage drop at I_e	$\leq 1.8 \text{ V}$
Wire break/reverse polarity protection	yes/Complete
Tests/approvals	
Mechanical data	
Design	Rectangular, Q20L60
Dimensions	60 x 30 x 20 mm
Electrical connection	Cable

Technical data

Cable quality	Ø 5.2 mm, LifYY, PVC
Core cross-section	3 x 0.34 mm ²
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
Switching state	LED, Yellow