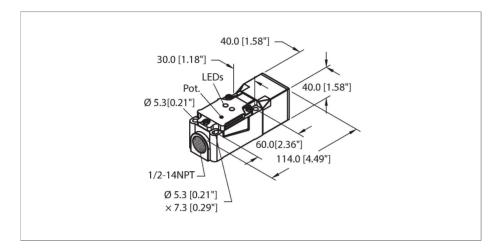


# BC20-CP40-VP4X2/S10 Capacitive Sensor



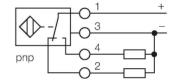
### Technical data

Туре	BC20-CP40-VP4X2/S10	
ID	25156	
Special version	S10 corresponds to: Mounting base with 1/2-14NPT thread	
Rated switching distance (flush)	20 mm	
Rated switching distance (non-flush)	20 mm	
Secured operating distance	≤ (0.72 × Sn)	
Hysteresis	120 %	
Temperature drift	Typical 20 %	
Repeat accuracy	≤ 2 % of full scale	
Ambient temperature	-25+70 °C	
Electrical data		
Operating voltage	1065 VDC	
Residual ripple	≤ 10 % U <sub>ss</sub>	
DC rated operational current	≤ 200 mA	
No-load current	≤ 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: 0.12.0 MHz	
Isolation test voltage	≤ 0.5 kV	
Output function	4-wire, Complementary contact, PNP	
Short-circuit protection	yes / Cyclic	
Voltage drop at I <sub>e</sub>	≤ 1.8 V	

#### **Features**

- Rectangular, height 40 mm
- ■9 selectable sensor head positions
- Plastic, PBT-GF30-V0
- Fine adjustment via potentiometer
- ■DC 4-wire, 10...65 VDC
- Complementary contact, PNP output
- ■Terminal chamber

## 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

Wire breakage/Reverse polarity protection	yes / Complete	
Tests/approvals		
Approvals	UL	
UL registration number	E210608	
Mechanical data		
Design	Rectangular, CP40	
Dimensions	114 x 40 x 40 mm	
Housing material	Plastic, PBT-GF30-V0	
Active area material	PBT-GF30-V0, yellow	
Electrical connection	Terminal chamber	
Clamping ability	≤ 2.5 mm²	
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	

# Mounting instructions

Product features		
	Diameter active area B	Ø 40 mm