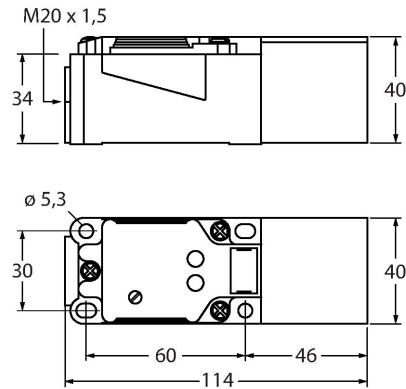


BC20-CP40-FZ3X2

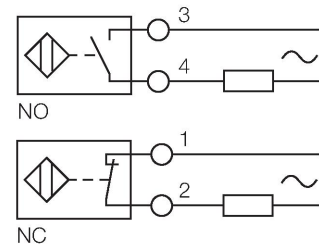
Capacitive Sensor



Features

- Rectangular, height 40 mm
- 9 sensor head positions
- Plastic, PBT-GF30-V0
- Fine adjustment via potentiometer
- AC 2-wire, 20...250 VAC
- Programmable connection (NC/NO)
- 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

Type	BC20-CP40-FZ3X2
ID	23105
Measuring principle	Capacitive
Rated switching distance	20 mm
Mounting conditions	Flush
Secured operating distance	$\leq (0.72 \times S_n)$ mm
Repeat accuracy	$\leq 2 \%$ of full scale
Temperature drift	Typical 20 %
Hysteresis	2...20 %
Electrical data	
Operating voltage U_b	20...250 VAC
AC rated operational current	≤ 500 mA
Frequency	$\geq 50 \dots \leq 60$ Hz
Residual current	≤ 1.7 mA
Isolation test voltage	1.5 kV
Voltage drop at I_o	≤ 7 V
Output function	2-wire, Connection programmable, 2-wire
Smallest operating current	≥ 5 mA
Switching frequency	0.02 kHz
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

Technical data

Electrical connection	Terminal chamber
Clamping ability	≤ 2.5 mm²
Ambient temperature	-25...+70 °C
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, Red

Mounting instructions

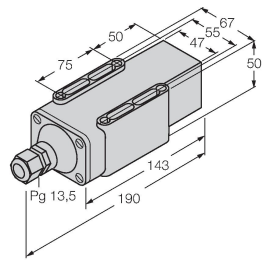
Mounting instructions/Description	Diameter active area B	Ø 40 mm
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Accessories

SG40

69500

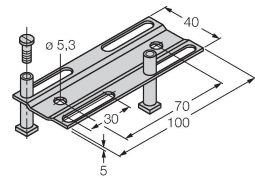
Protective housing; housing material: PA (per UL94/V-2); cover: PBT-GF30; for harsh environments; protection degree IP68, 5 m w.g.



JS025/037

69429

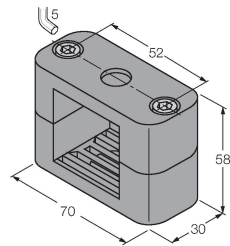
Adjusting bar for rectangular housings CK/CP40; material: VA 1.4301



BSS-CP40

6901318

Mounting clamp for rectangular housings 40 x 40 mm; material: Polypropylene



BC20-CP40-FZ3X2 | 10/01/2025 17-32 | technical changes reserved