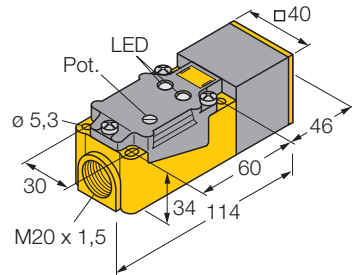


capacitive sensor BC20-CP40-VN4X2

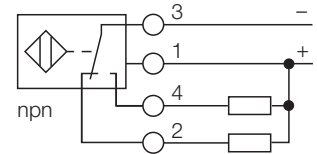
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- rectangular, height 40 mm
- 9 selectable sensor head positions
- Plastic, PBT-GF30-V0
- fine adjustment via potentiometer
- 4-wire DC, 10...65 VDC
- change-over, npn output
- Terminal chamber

Wiring diagram



Functional principle

Capacitive proximity switches are designed for non-contact and wear-free detection of metal (electrically conductive) and non-metal (electrically non-conductive) objects.

Type	BC20-CP40-VN4X2
Ident-No.	25161
Rated operating distance Sn	20 mm, flush mounting
Rated operating distance Sn	30 mm, non-flush mounting
Hysteresis	2... 20 %
Temperature drift	≤ ± 20 %
Repeatability	≤ 2 %
Ambient temperature	-25...+ 70 °C
Operating voltage	10... 65 VDC
Residual ripple	≤ 10 % U _{ss}
DC rated operational current	≤ 200 mA
No-load current I ₀	≤ 15 mA
Residual current	≤ 0.1 mA
Switching frequency	≤ 0.1kHz
Rated insulation voltage	≤ 0.5 kV
Output function	4-wire, Two-way contact, NPN
Short-circuit protection	yes / cyclic
Voltage drop at I _e	≤ 1.8 V
Wire breakage / Reverse polarity protection	yes / complete
Housing	rectangular, CP40
Dimensions	114 x 40 x 40 mm
Housing material	Plastic, PBT-GF30-V0
Material active face	Plastic, PBT-GF30-V0
Electrical connection	Terminal chamber
Clamping ability	≤ 2.5mm ²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30g (11 ms)
Protection class	IP67
Operating voltage display	LED green
Display switch state	LED yellow

capacitive sensor BC20-CP40-VN4X2

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Accessories

Type code	Ident-No.	Short text	Dimension drawing
SG40	69500	Protective housing; housing material: PA (per UL94/V-2); cover: PBT-GF30; for harsh environments; protection degree IP68, 5 m w.g.	The dimension drawings show the following specifications: SG40 Protective housing: Dimensions include 70, 60, 47, 50, 143, 190, and a mounting hole of $\varnothing 13.0$. JS 025/037 Mounting rail: Dimensions include 40, 70, 100, 30, 5, and a hole diameter of $\varnothing 5.3$. BSS-CP40 Fixing clamp: Dimensions include 25, 50, 58, 70, and 80.
JS 025/037	69429	Mounting rail; material: VA 1.4301	
BSS-CP40	6901318	Fixing clamp; material: Polypropylene	