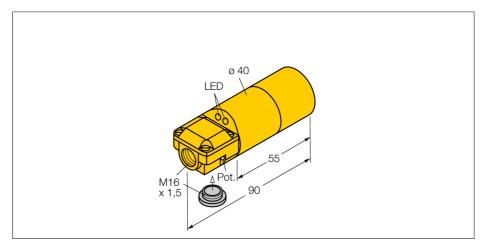
Capacitive sensor BC20-K40SR-VP4X2





Type code	BC20-K40SR-VP4X2
Ident no.	25100

Rated operating distance Sn Rated operating distance Sn Assured sensing range Hysteresis Temperaturdrift Repeatability

Ambient temperature

30 mm, non-flush mounting \leq (0.72 x Sn) mm 2...20 % type ≤ ± 20 % \leq 2 % of full scale -25...+70 °C

Operating voltage 10...65VDC Residual ripple $\leq 10~\%~U_{ss}$ DC rated operational current ≤ 200 mA No-load current Io ≤ 15 mA Residual current $< 0.1 \, \text{mA}$ Switching frequency 0.1 kHz Rated insulation voltage $\leq 0.5 \; kV$ Output function

4-wire, changover contact, PNP

Short-circuit protection yes/ cyclic ≤ 1.8 V Voltage drop at I. Wire breakage / Reverse polarity protection yes/ complete

Design smooth barrel, 40 mm Dimensions 90 mm

Plastic, ABS Housing material Material active face Plastic, ABS Connection Terminal chamber Clamping ability ≤ 2.5 mm² Vibration resistance 55 Hz (1 mm) Shock resistance 30 g (11 ms) Protection class **IP67**

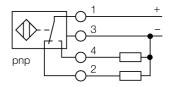
MTTF 1080 years acc. to SN 29500 (Ed. 99) 40 °C

Operating voltage LED green Switching state yellow

Included in scope of supply BS40, cable gland, blanking plug

- 2 cable entries (axial, radial)
- Smooth barrel, Ø 40 mm
- Plastic, ABS
- Fine adjustment via potentiometer
- DC 4-wire, 10...65 VDC
- Changeover 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.

TURCK

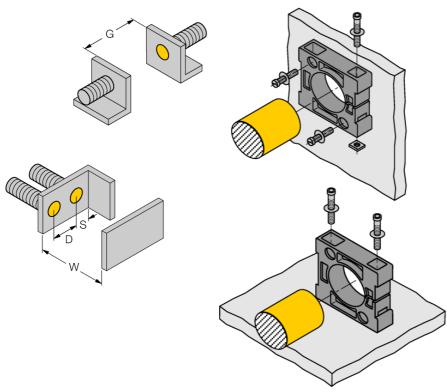
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Mounting instructions / Description	minimum distances	
Distance D	40 mm	
Distance W	60 mm	
Distance S	60 mm	
Distance G	120 mm	

Diameter of the active area B

Ø 40 mm



The given minimum distances have been checked in compliance with the standard switching distance. Should the sensitivity of the sensors be changed via potentiometer, the data sheet specifications no longer apply.

Capacitive sensor BC20-K40SR-VP4X2



Accessories

Type code	ldent no.	Description	Dimension drawing
MAP-K40	6950014	Mounting adapter; material: Polypropylene; sensor replacement with filled container possible (adapter remains in container during sensor replacement)	0 60 550 R 11/2 0 40,5 R 11/2 8 23 37 52,5
BS 40	69466	Fixing clamp; material mounting block: PBT	16 3 47.5 65 50 M5 x 50 DIN 912