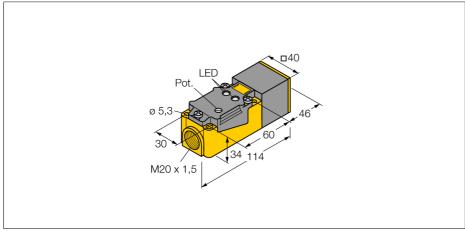
## capacitive sensor BC20-CP40-VP4X2



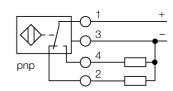


Type BC20-CP40-VP4X2			
Ident-No.	25160		
Rated operating distance Sn	20 mm, flush mounting		
Rated operating distance Sn	30 mm, non-flush mounting		
Assured sensing range	ð (0,72 x Sn) mm		
Hysteresis	220		
Temperature drift	ð ± 20 %		
Repeatability ð 2 %			
Ambient temperature	-25+70		
Operating voltage	1065		
Residual ripple	ð 10 % U <sub>ss</sub>		
DC rated operational current	ð 200 mA		
No-load currentl <sub>0</sub>	ð 15 mA		
Residual current	ð 0.1 mA		
Switching frequency	ð 0.1 kHz		
Rated insulation voltage	ð 0.5 kV		
Output function	4-wire, changover contact, PNP		
Short-circuit protection	yes/ cyclic		
Voltage drop atl <sub>e</sub>	ð 1.8 V		
Wire breakage / Reverse polarity protection	yes/ complete		
Design	rectangular, CP40		
Dimensions	114 x 40 x 40		
Housing material	Plastic, PBT-GF30-V0, black		
Material active face	Plastic, PBT-GF30-V0, yellow		
Connection	Terminal chamber	erminal chamber	
Clamping ability	ð 2.5 mm <sup>2</sup>	ð 2.5 mm <sup>2</sup>	
Vibration resistance	55 Hz (1 mm)		
Shock resistance	30 g (11 ms)		
Protection class	IP67		
Operating voltage	LED green	<u> </u>	
Switching state	LED yellow		
Width of the active face B	40 mm		

#### Rectangular, height 40 mm

- 9 selectable sensor head positions
- Plastic, PBT-GF30-V0
- 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 metal (electrically conductive) and non-metal (electrically non-conductive) objects.

# capacitive sensor BC20-CP40-VP4X2



### Accessories

Type code	Ident-No.	Short text	Dimension drawing
SG40	69500	Protective housing; housing material: PA (per UL94/V-2); cov- er: PBT-GF30; for harsh environments; protection degree IP68, 5 m w.g.	Pg 13,6
JUSTIERSCHIENE JS 025/037	69429	Mounting rail; material: VA 1.4301	0 5.3 0 5.3 0 70 100 5
BSS-CP40	6901318	Fixing clamp; material: Polypropylene	