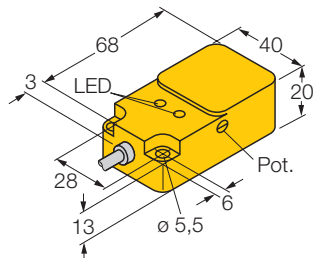


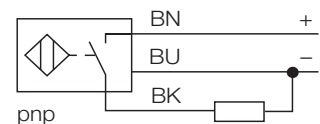
Capacitive sensor

BC20-Q20-AP4X2



- rectangular, height 20mm
- top active face
- plastic, PBT12-GF30-V0
- fine adjustment via potentiometer
- 3-wire DC, 10...65 VDC
- normally open pnp output
- cable connection

Wiring diagram



Function principles

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-Q20-AP4X2
Ident-No.	2530100
Rated operating distance Sn	20 mm, flush mounting
Rated operating distance Sn	30 mm, non-flush mounting
Hysteresis (switching distance)	2... 20 %
Temperature drift	≤ ± 20 %
Min. repeat accuracy	≤ 2 %
Operating temperature	-25 ...+ 70 °C
Rated operational voltage (DC) U_B	10... 65 VDC
Max. ripple	≤ 10 % U _{pp}
Rated operational current (DC) I _e	≤ 200 mA
No-load current I ₀	≤ 15 mA
Max. OFF-state current	≤ 0,1 mA
Max. switching frequency	≤ 0,1 kHz
Rated insulation voltage	≤ 0,5 kV
Output function	3-wire, normally open, PNP
Short-circuit protection	yes, cyclic
Max. voltage drop at I _e	≤ 1,8 V
Wire breakage / reverse polarity protection	yes / complete
Housing style	rectangular; Q20
Dimensions	68 x 40 x 20 mm
Housing material	plastic, PBT-GF30-V0
Active face	plastic, PBT-GF30-V0
Wiring	cable
Cable	Ø 5,2, LiYY-11Y, PUR, 2 m
Cable cross section	3 x 0,34 mm ²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 x g (11 ms)
Degree of protection	IP67
Supply voltage indication	LED green
Switching status indication	LED yellow
Included with sensor	MH-Q20

BC20-Q20-AP4X2

Type	Ident-No.	Description	Dimension drawing
MW-Q14/Q20	6945006	mounting bracket; material VA 1.4301	
MH-Q20	6950010	for mounting with active face downwards	