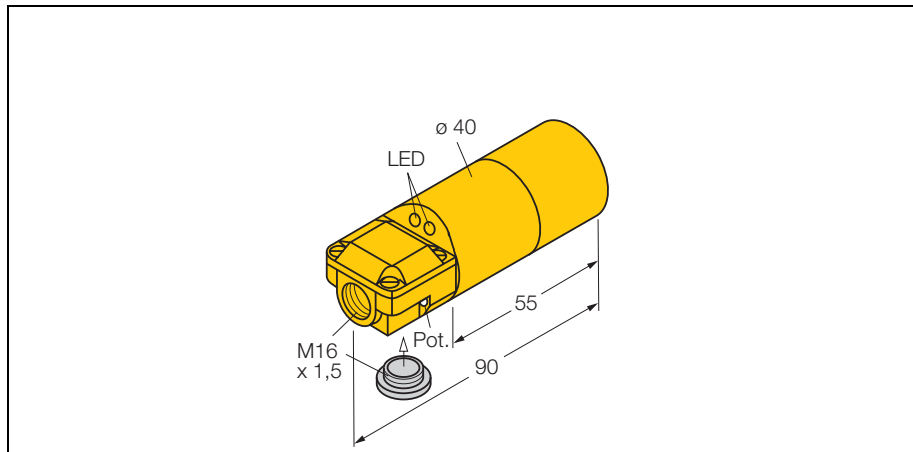


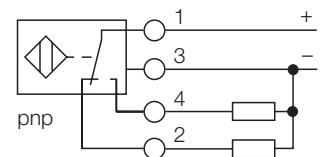
Capacitive sensor

BC20-K40SR-VP4X2



- 2 cable entries (axial, radial)
- smooth barrel, 40 mm diameter
- plastic, ABS
- fine adjustment via potentiometer
- 4-wire DC, 10...65 VDC
- SPDT, pnp output
- terminal chamber

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-K40SR-VP4X2
Ident-No.	25100
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	4-wire, complementary, PNP
Short-circuit protection	yes, cyclic
Max. voltage drop at I _e	≤ 1,8 V
Wire breakage / reverse polarity protection	yes / complete
Housing style	smooth barrel; 40 mm
Dimensions	90 mm
Housing material	plastic, ABS
Active face	plastic, ABS
Wiring	terminal chamber
Clamping ability	≤ 2,5 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	BS40, blind plug

Capacitive sensor

BC20-K40SR-VP4X2

Accessories

Typ	Ident-No.	Description	Dimension drawing
MAP-K40	6950014	mounting adapter; material: Polypropylen; sensor replacement with filled container possible (adapter remains in container during sensor replacement)	
BS40	69466	fixing clamp; material mounting block: PBT	