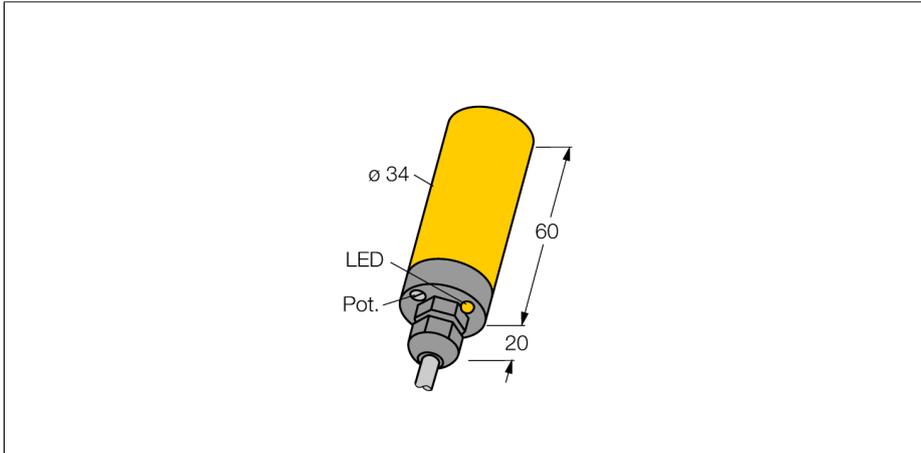# Capacitive sensor
BC15-K34-VN4X
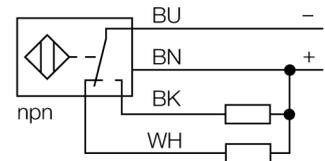
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- **Smooth barrel, Ø 34 mm**
- **Plastic, PBT-GF30-V0**
- **Fine adjustment via potentiometer**
- **DC 4-wire, 10…65 VDC**
- **Changeover contact, NPN output**
- **Cable connection**

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.

Type	BC15-K34-VN4X
Ident-No.	2502127

Rated operating distance Sn	15 mm, flush mounting
Rated operating distance Sn	22.5 mm, non-flush mounting
Assured sensing range	$\leq (0.72 \times Sn)$ mm
Hysteresis	2…20 %
Temperaturdrift	type $\leq \pm 20$ %
Repeatability	≤ 2 %
Ambient temperature	-25…+70 °C

Operating voltage	10…65VDC
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	0.1 kHz
Rated insulation voltage	≤ 0.5 kV
Output function	4-wire, changeover contact, NPN
Short-circuit protection	yes/ cyclic
Voltage drop at I_e	≤ 1.8 V
Wire breakage / Reverse polarity protection	yes/ complete

Design	smooth barrel, 34 mm
Dimensions	80 mm
Housing material	Plastic, PBT-GF30-V0
Material active face	Plastic, PBT-GF30-V0, yellow
Connection	cable
Cable quality	Ø 5.2, LifYY, PVC, 2 m
Cable cross section	4 x 0.34 mm^2
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
MTTF	1080years acc. to SN 29500 (Ed. 99) 40 °C

Switching state	LED yellow
Included in scope of supply	BS34.1, 2 M5 screws, cable gland, blanking plugs

Capacitive sensor
BC15-K34-VN4X

Mounting instructions	minimum distances
Distance D	68 mm
Distance W	45 mm
Distance S	51 mm
Distance G	90 mm

Diameter of the active area B	Ø 34 mm
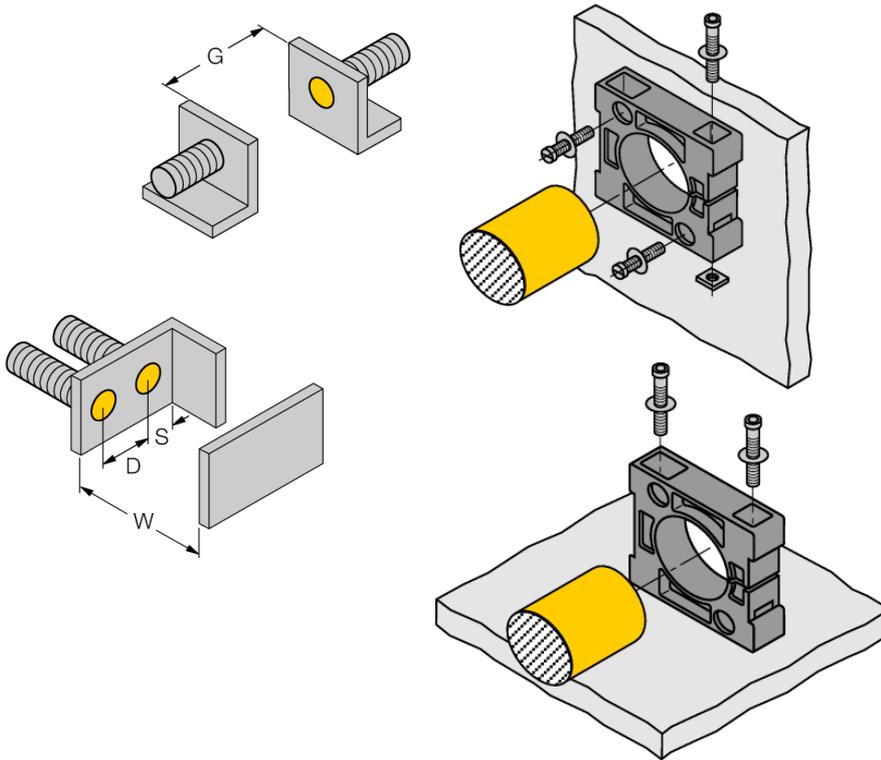
The given minimum distances have been checked in compliance with the standard switching distance. Should the sensitivity of the sensors be changed via potentiometer, the data sheet specifications no longer apply.

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Accessories

Type code	Ident-No.	Short text	Dimension drawing
BS34.1	6946010	Fixing clamp: Mounting block material (PBT-GF20-V0); dimensions (58 mm x 56 mm x 16 mm), included in delivery (2 M5 screws for base mounting)	
BS34.1-WMS	6946009	Screw set for wall mounting	

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