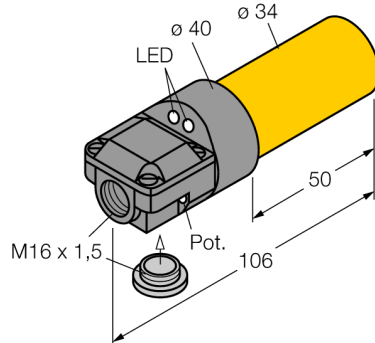


Capacitive sensor BC15-K34SR-VN4X2

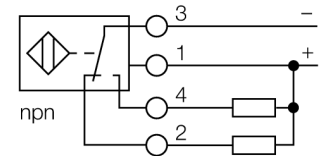
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- 2 cable entries (axial, radial)
- Smooth barrel, Ø 34 mm
- Plastic, PBT-GF30-V0
- Fine adjustment via potentiometer
- DC 4-wire, 10...65 VDC
- Changeover contact, NPN output
- Terminal chamber

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.

Type designation	BC15-K34SR-VN4X2
Ident-No.	2502128
Ident-No (TUSA)	M2502128
Rated switching distance (flush)	15 mm
Rated switching distance (non-flush)	22.5 mm
Assured switching distance	≤ (0.72 x S _n) mm
Hysteresis	2...20 %
Temperature drift	type 20 %
Repeatability	≤ 2 % of full scale
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, complementary, NPN
Short-circuit protection	yes/ cyclic
Voltage drop at I ₀	≤ 1.8 V
Wire breakage / Reverse polarity protection	yes/ complete
Construction	Smooth barrel, 34 mm
Dimensions	106 mm
Housing material	Plastic, PBT-GF30-V0
Active area material	Plastic, PBT-GF30-V0, yellow
Electrical connection	terminal chamber
Clamping ability	≤ 2.5 mm ²
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
Power-on indication	LED green
Switching state	LED yellow
Included in delivery	BS34.1, blanking plugs, 2 M5 screws

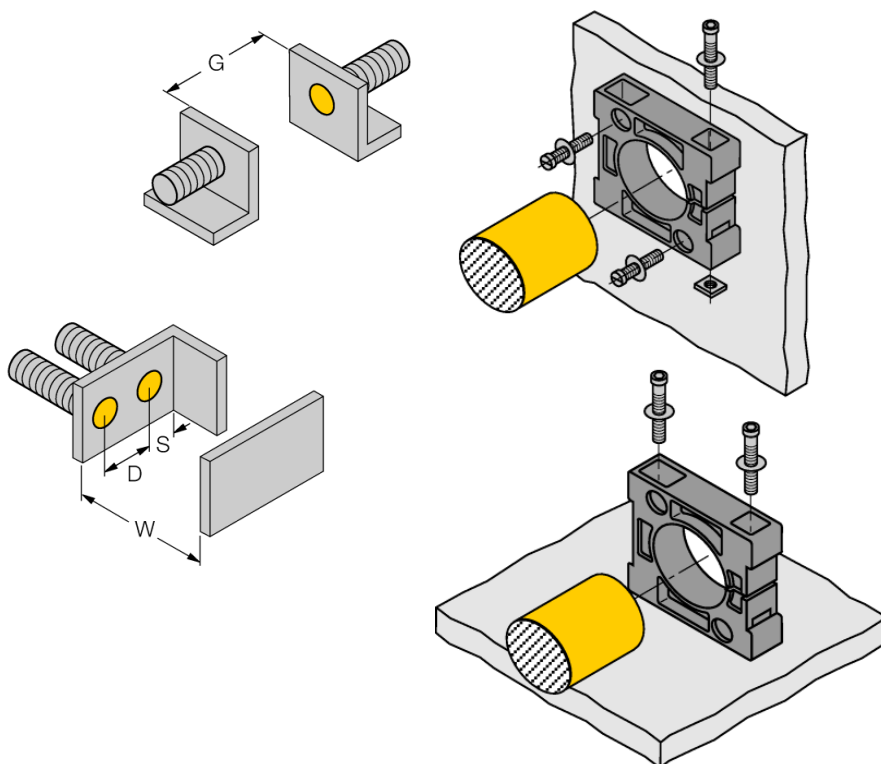
Capacitive sensor BC15-K34SR-VN4X2

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Mounting instructions / Description	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
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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
BC15-K34SR-VN4X2



Accessories

Type code	Ident-No.	Description	
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)	