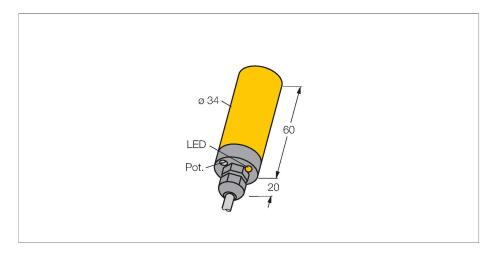


BC15-K34-VN4X Capacitive Sensor



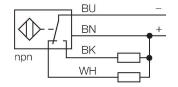
Technical data

ID2502127Rated switching distance (flush)15 mmRated switching distance (non-flush)22.5 mmSecured operating distance $\leq (0.72 \times Sn)$ Hysteresis120 %Temperature driftTypical 20 %Repeat accuracy ≤ 2 % of full scaleAmbient temperature-25+70 °C	
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Hysteresis 120 % Temperature drift Typical 20 % Repeat accuracy ≤ 2 % of full scale	
Temperature drift Typical 20 % Repeat accuracy ≤ 2 % of full scale	
Repeat accuracy ≤ 2 % of full scale	
Ambient temperature -25+70 °C	
•	
Electrical data	
Operating voltage 65 VDC	
Residual ripple ≤ 10 % U _{ss}	
DC rated operational current ≤ 200 mA	
No-load current ≤ 15 mA	
Residual current ≤ 0.1 mA	
Switching frequency 0.1 kHz	
Oscillation frequency According to EN 6 9: 0.12.0 MHz	0947-5-2, 8.2.6.2 Table
Isolation test voltage ≤ 0.5 kV	
Output function 4-wire, Compleme	entary contact, NPN
Short-circuit protection yes / Cyclic	
Voltage drop at I _e ≤ 1.8 V	
Wire breakage/Reverse polarity protection yes / Complete	
Tests/approvals	
Approvals UL	
UL registration number E210608	

Features

- ■Smooth barrel, Ø 34mm
- Plastic, PBT-GF30-V0
- Fine adjustment via potentiometer
- ■DC 4-wire, 10...65 VDC
- Complementary contact, NPN output
- Cable connection

Wiring diagram



Functional principle

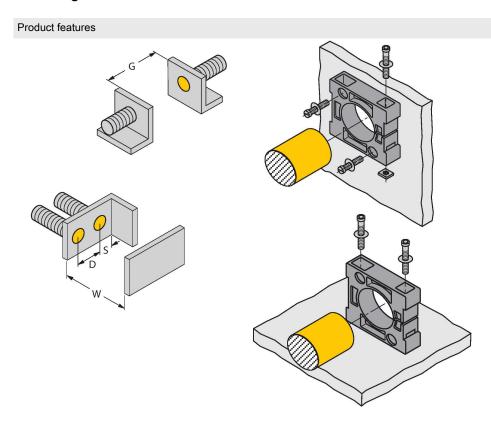
Capacitive proximity switches are designed for non-contact and wear-free detection of electrically conductive as well as non-conductive metal objects.



Technical data

Mechanical data	
Design	Smooth barrel, 34 mm
Dimensions	80 mm
Housing material	Plastic, PBT-GF30-V0
Active area material	PBT-GF30-V0, yellow
Electrical connection	Cable
Cable quality	Ø 5.2 mm, LifYY, PVC, 2 m
Core cross-section	4 x 0.34 mm²
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	Green
Switching state	LED, Yellow
Included in delivery	BS34.1, 2 M5 screws, cable gland, blanking plugs

Mounting instructions



Distance D	68 mm
Distance W	45 mm
Distance S	51 mm
Distance G	90 mm
Diameter active area B	Ø 34 mm

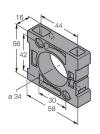
The given minimum distances have been checked in compliance with the standard switching distance.

Should the sensitivity of the sensors be changed via potentiometer, the data sheet specifications no longer apply.



Accessories

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)