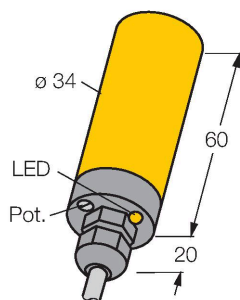


BC15-K34-RZ3X

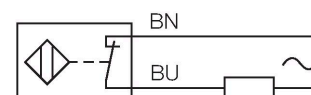
Capacitive Sensor



Features

- Smooth barrel, Ø 34mm
- Plastic, PBT-GF30-V0
- Fine adjustment via potentiometer
- AC 2-wire, 20...250 VAC
- NC contact
- Cable connection

Wiring diagram



Technical data

Type	BC15-K34-RZ3X
Ident. no.	2310110
Rated switching distance (flush)	15 mm
Rated switching distance (non-flush)	22.5 mm
Secured operating distance	$\leq (0.72 \times S_n)$
Hysteresis	2...20 %
Temperature drift	type 20 %
Repeat accuracy	≤ 2 % of full scale
Ambient temperature	-25...+70 °C
Electrical data	
Operating voltage	20...250 VAC
AC rated operational current	≤ 500 mA
Frequency	$\geq 50... \leq 60$ Hz
Smallest operating current	≥ 5 mA
Residual current	≤ 1.7 mA
Switching frequency	0.02 kHz
Isolation test voltage	≤ 1.5 kV
Output function	2-wire, NC contact, 2-wire
Voltage drop at I_o	≤ 7 V
Approvals	UL
Mechanical data	
Design	Smooth barrel, 34 mm
Dimensions	80 mm

Functional principle

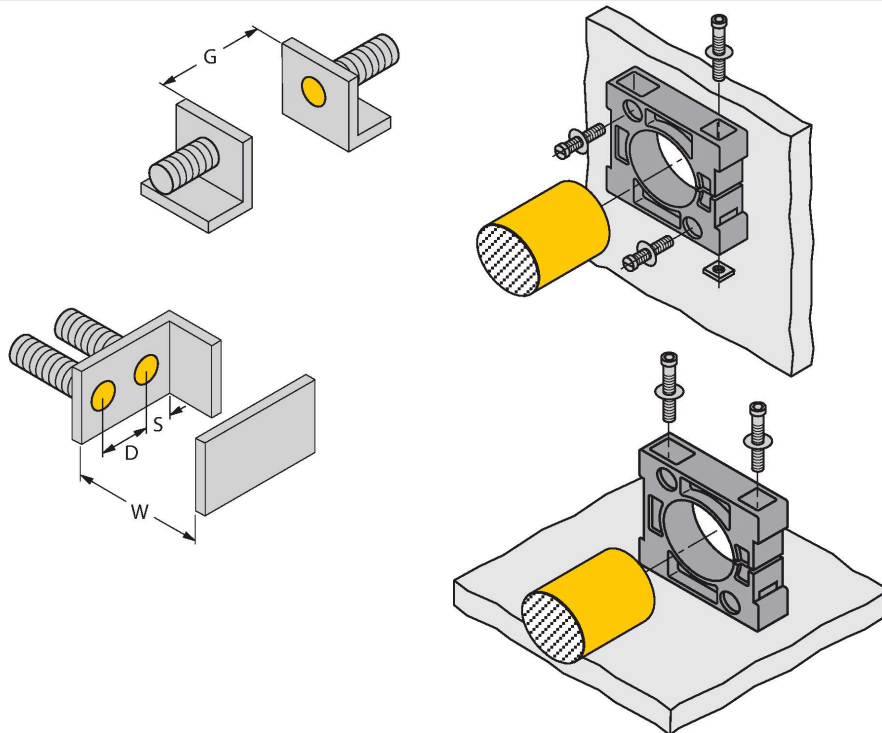
Capacitive proximity switches are designed for non-contact and wear-free detection of electrically conductive as well as non-conductive metal objects.

Technical data

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	2 x 0.34 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
Switching state	LED, Yellow
Included in delivery	BS34.1, 2 M5 screws, cable gland, blanking plugs

Mounting instructions

Product features



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.