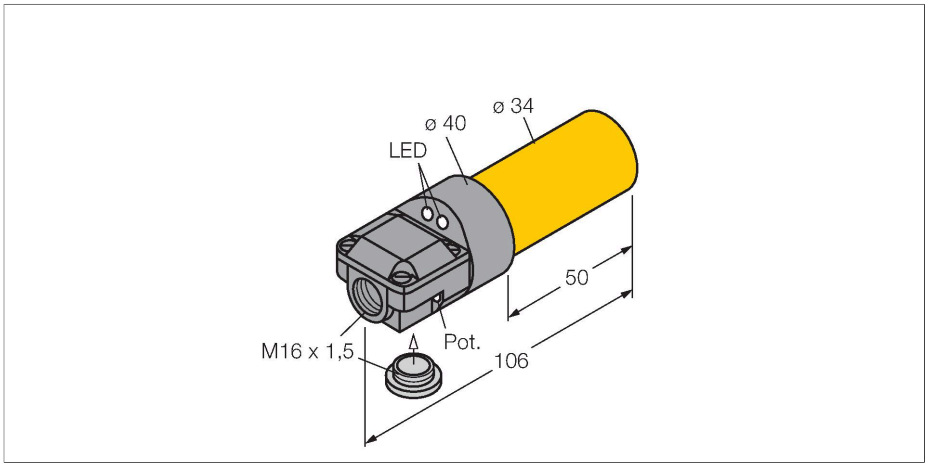
# BC15-K34SR-VN4X2
# Capacitive Sensor



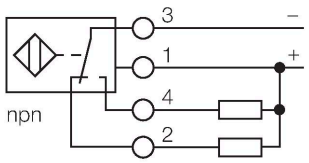

## Technical data

| Type | BC15-K34SR-VN4X2 |
|---|---|
| ID | 2502128 |
| Rated switching distance (flush) | 15 mm |
| Rated switching distance (non-flush) | 22.5 mm |
| Secured operating distance | ≤ (0.72 × Sn) |
| Hysteresis | 1…20 % |
| Temperature drift | Typical 20 % |
| Repeat accuracy | ≤ 2 % of full scale |
| Ambient temperature | -25…+70 °C |
| **Electrical data** | |
| Operating voltage | 10…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 60947-5-2, 8.2.6.2 Table 9: 0.1…2.0 MHz |
| Isolation test voltage | ≤ 0.5 kV |
| Output function | 4-wire, Complementary contact, NPN |
| Short-circuit protection | yes / Cyclic |
| Voltage drop at $I_e$ | ≤ 1.8 V |
| Wire breakage/Reverse polarity protection | yes / Complete |

## Features

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

## Wiring diagram




## Functional principle

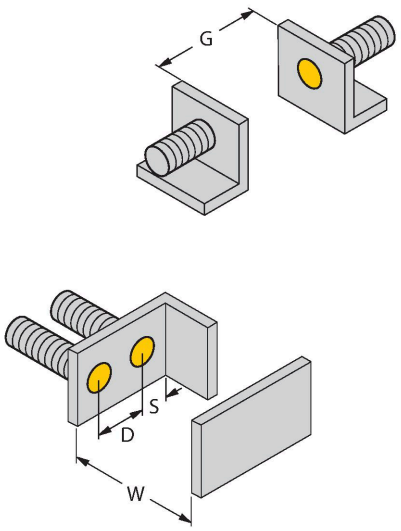
Capacitive proximity switches are designed for non-contact and wear-free detection of electrically conductive as well as non-conductive metal objects.

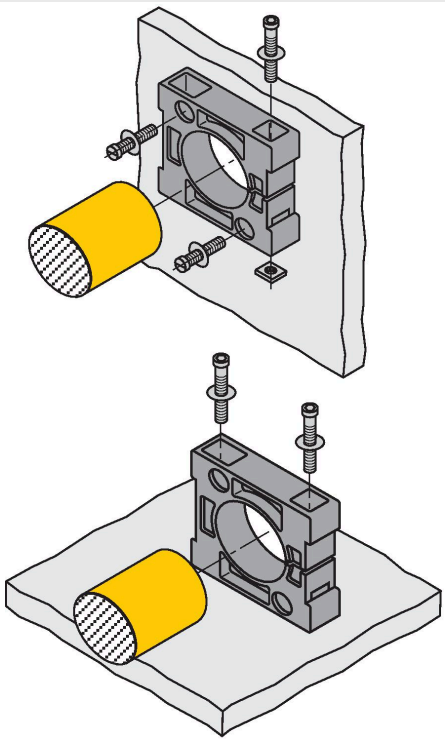
## Technical data

| | |
|---|---|
| **Tests/approvals** | |
| Approvals | UL |
| UL registration number | E210608 |
| **Mechanical data** | |
| Design | Smooth barrel, 34 mm |
| Dimensions | 106 mm |
| Housing material | Plastic, PBT-GF30-V0 |
| Active area material | PBT-GF30-V0, yellow |
| Electrical connection | Terminal chamber |
| Clamping ability | ≤ 2.5 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 | LED, Green |
| Switching state | LED, Yellow |
| Included in delivery | BS34.1, blanking plugs, 2 M5 screws |

## 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.