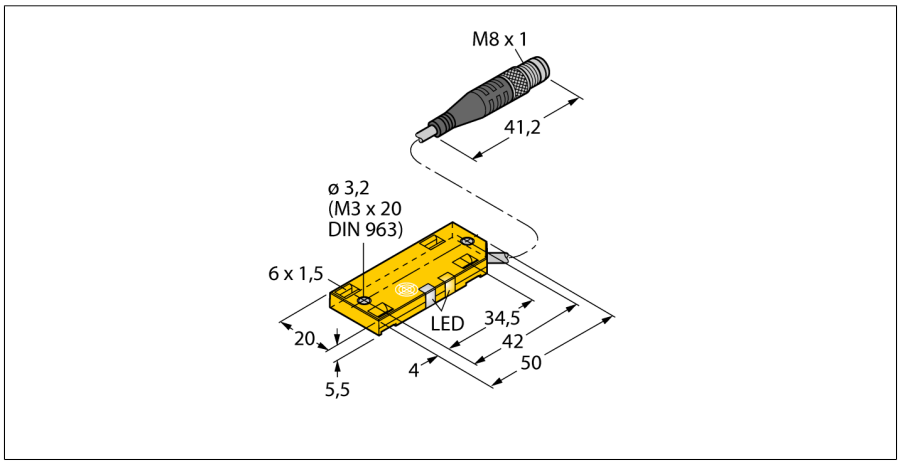
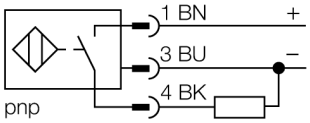
# Capacitive sensor
# BC10-QF5,5-AP6X2-0,3-PSG3M




- **Rectangular, height 5.5 mm**
- **Active face on top**
- **Plastic, PP**
- **Fine adjustment via potentiometer**
- **DC 3-wire, 10…30 VDC**
- **NO contact, PNP output**
- **Cable with M8 x 1 connector**

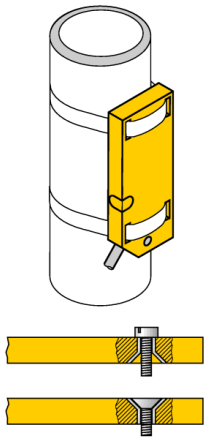
### Wiring diagram




| | |
|---|---|
| **Type code** | BC10-QF5,5-AP6X2-0,3-PSG3M |
| Ident no. | 2601006 |
| **Rated switching distance (flush)** | 10 mm |
| Rated switching distance (non-flush) | 10 mm |
| Assured switching distance | ≤ (0.72 x Sn) mm |
| Hysteresis | 2…20 % |
| Temperature drift | type 20 % |
| Repeatability | ≤ 2 % of full scale |
| Ambient temperature | -25…+70 °C |
| **Operating voltage** | 10…30VDC |
| 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 | 3-wire, NO contact, PNP |
| Short-circuit protection | yes/ cyclic |
| Voltage drop at $I_e$ | ≤ 1.8 V |
| Wire breakage / Reverse polarity protection | yes/ complete |
| **Construction** | rectangular, QF5.5 |
| Dimensions | 54 x 20.3 x 5.5 mm |
| Housing material | plastic, PP |
| Material active area | plastic, PP |
| Connection | Cable with male end, M8 x 1 |
| Cable quality | Ø 3, LifYY-11Y, PUR, 0.3m |
| Cable cross section | 3 x 0.14 mm² |
| Vibration resistance | 55 Hz (1 mm) |
| Shock resistance | 30 g (11 ms) |
| IP Rating | IP67 |
| MTTF | 1080 years acc. to SN 29500 (Ed. 99) 40 °C |
| **Power-on indication** | LED green |
| Switching state | LED yellow |
| Included in delivery | 2 retaining straps |

### Functional principle

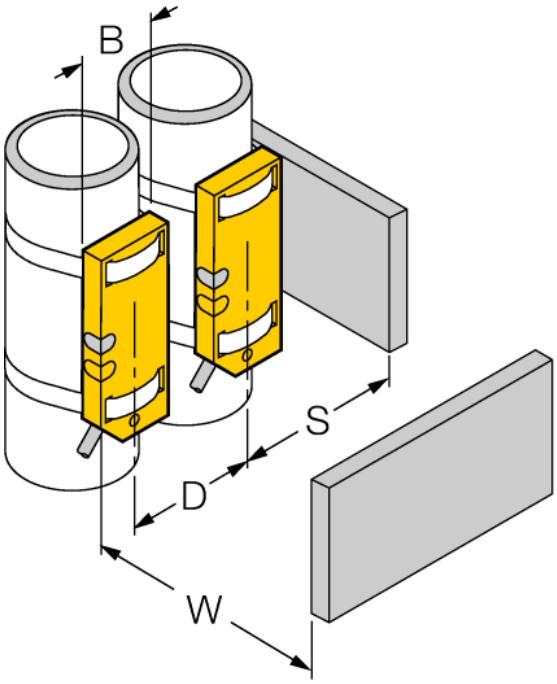
Capacitive proximity switches are designed for non-contact and wear-free detection of electrically conductive as well as non-conductive metal objects.

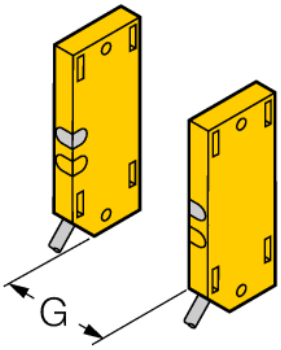


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# Capacitive sensor
# BC10-QF5,5-AP6X2-0,3-PSG3M

| | |
|---|---|
| **Distance D** | 40 mm |
| Distance W | 30 mm |
| Distance S | 30 mm |
| Distance G | 60 mm |
| **Diameter of the active area B** | Ø 20 mm |




The given minimum distances have been checked against 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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