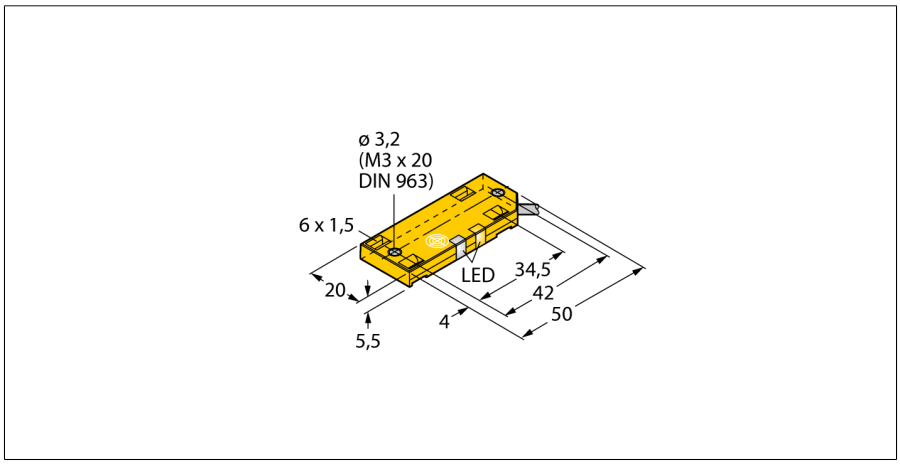
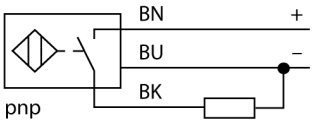
Capacitive sensor
BC5-QF5.5-AP6X2/S250

Industrial Automation



- **Rectangular, height 5.5 mm**
- **Active face on top**
- **Plastic, PP**
- **Fixed settings**
- **DC 3-wire, 10…30 VDC**
- **NO contact, PNP output**
- **Cable connection**

Wiring Diagram



Type designation	BC5-QF5.5-AP6X2/S250
Ident-No.	2620116
Ident-No (TUSA)	S2620116

Rated switching distance (flush)	5 mm
Rated switching distance (non-flush)	5 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

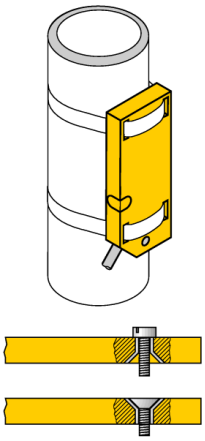
Operating voltage	10… 30VDC
Residual ripple	≤ 10 % U_{ss}
DC rated operational current	≤ 200 mA
No-load current I_0	≤ 15 mA
Residual current	≤ 0.1 mA
Switching frequency	0.1 kHz
Rated insulation voltage	≤ 0.5 kV
Output function	3-wire, NO contact, PNP
Short-circuit protection	yes/ cyclic
Voltage drop 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
Active area material	Plastic, PP
Electrical connection	cable
Cable quality	Ø 3, LifYY-11Y, PUR, 2m
Cable cross section	3 x 0.14 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

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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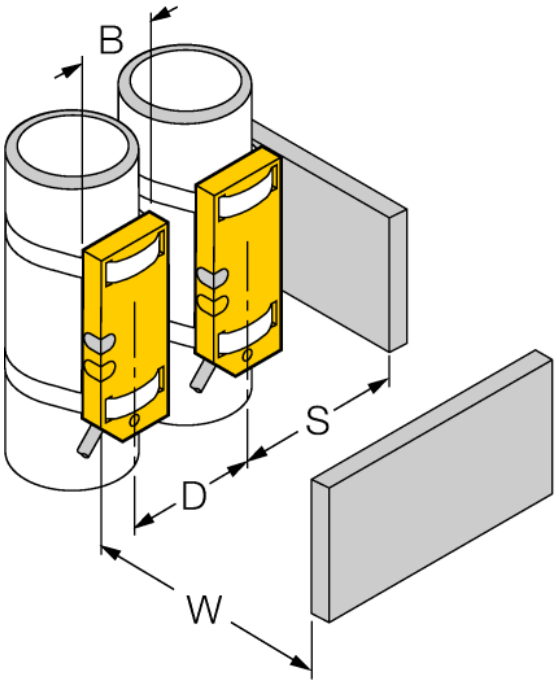
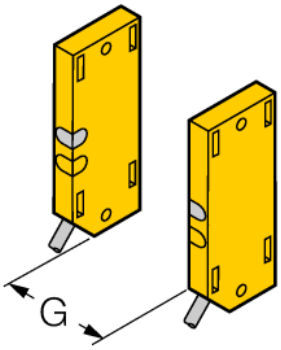
Distance D	40 mm
Distance W	30 mm
Distance S	30 mm
Distance G	60 mm

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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