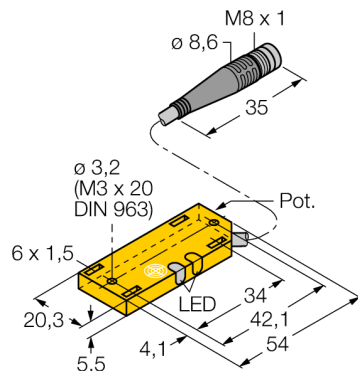


Capacitive sensor

BC3-QF5,5-AP6X2-5-PSG3M/S250/S930

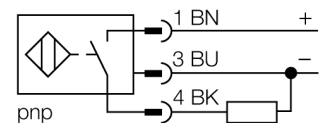
TURCK

Industrial
Automation



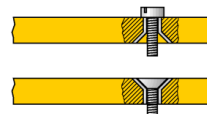
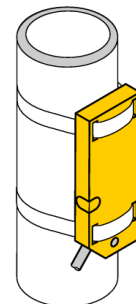
- Rectangular, height 5.5 mm
- Active face on top
- Plastic, PP
- Fixed settings
- DC 3-wire, 10...30 VDC
- NO contact, PNP output
- Cable with M8 x 1 connector

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.

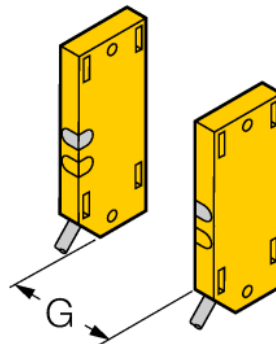
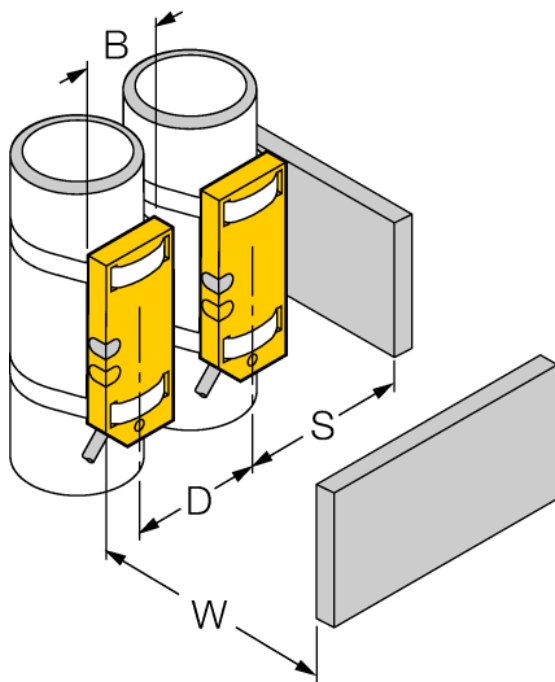


Type code	BC3-QF5,5-AP6X2-5-PSG3M/S250/S930
Ident no.	2620205
Rated operating distance Sn	3 mm
Rated operating distance Sn	3 mm, non-flush mounting
Assured sensing range	≤ (0.72 x Sn) mm
Hysteresis	2...20 %
Temperaturdrift	type ≤ ± 20 %
Repeatability	≤ 2 % of full scale
Ambient temperature	-25...+70 °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 ₀	≤ 1.8 V
Wire breakage / Reverse polarity protection	yes/ complete
Design	rectangular, QF5.5
Dimensions	54x 20.3x 5.5 mm
Housing material	Plastic, PP
Material active face	Plastic, PP
Connection	Cable with connector, M8 x 1
Cable quality	Ø 3, LiYY-11Y, PUR, 2 m
Cable cross section	3 x 0.14 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
Operating voltage	LED green
Switching state	• yellow
Included in scope of supply	2 retaining straps

Capacitive sensor

BC3-QF5,5-AP6X2-5-PSG3M/S250/S930

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.