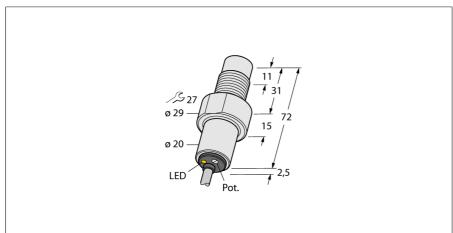
Capacitive sensor BC5-S185-AP4X

Ambient temperature





BC5-S185-AP4X	
25035	
7.5 mm	
Flush	
≤ (0.72 x Sn) mm	
≤ 2 % of full scale	
type 20 %	
220 %	

-25...+70 °C

Operating voltage 10...65 VDC Residual ripple \leq 10 % U_{ss} DC rated operational current ≤ 200 mA No-load current Io ≤ 15 mA Residual current $\leq 0.1 \text{ mA}$ Isolation test voltage $\leq 0.5 \; kV$ Short-circuit protection yes/ Cyclic Voltage drop at I, ≤ 1.8 V Wire breakage/Reverse polarity protection yes/ Complete Output function 3-wire, NO contact, PNP Switching frequency 0.1 kHz

Design Threaded barrel,M18 × 1

Dimensions 74.5 mm

Housing material Plastic, PVDF

Active area material Plastic, PVDF, yellow

Max. tightening torque housing nut 2 Nm

Electrical connection Cable

 Cable quality
 5.2mm, LifYY, PVC, 2

 Cable cross section
 3 x 0.34 mm²

 Vibration resistance
 55 Hz (1 mm)

 Shock resistance
 30 g (11 ms)

 Protection class
 IP67

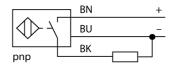
MTTF 1080 years acc. to SN 29500 (Ed. 99) 40 °C

Packaging unit

Switching state LED, Yellow

- M18 × 1 threaded barrel
- Plastic, PVDF
- Fine adjustment via potentiometer
- DC 3-wire, 10...65 VDC
- NO contact, PNP output
- Cable connection

Wiring Diagram



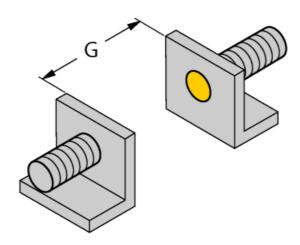
Functional principle

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

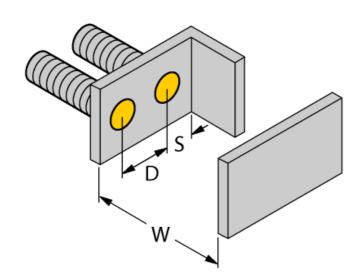
Capacitive sensor BC5-S185-AP4X



Mounting instructions/Description	minimum distances
Distance D	36 mm
Distance W	15 mm
Distance S	27 mm
Distance G	30 mm
Diameter active area B	Ø 18 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.



Capacitive sensor BC5-S185-AP4X



Accessories

Type code	Ident-No.	Description	
BSN 18	69472	Fixing clamp; material: PA66-GF	26 32 M6 x 30 DIN 912
BST-18B	6947214	Fixing clamp for threaded barrel devices, with dead-stop; material: PA6	M5 28 40 24 24 30 30