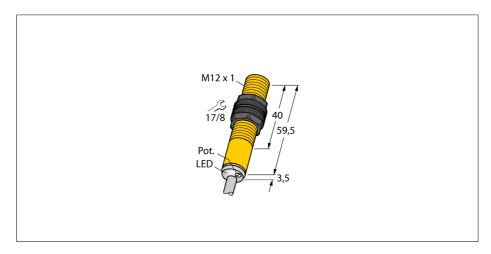
Capacitive sensor **BC3-S12-AN6X**





Type code	BC3-S12-AN6X	
Ident no.	2601300	
Rated operating distance Sn	3 mm	
Rated operating distance Sn	4.5 mm, non-flush mounting	
Assured sensing range	≤ (0.72 x Sn) mm	
Hysteresis	220 %	
Temperaturdrift	type ≤ ± 20 %	
Repeatability	≤ 2 % of full scale	
Ambient temperature	-25+70 °C	
Operating voltage	1030VDC	
Residual ripple	≤ 10 % U _{**}	
DC rated operational current	< 200 mA	
No-load current I₀	≤ 15 mA	

Residual current \leq 0.1 mA Switching frequency 0.1 kHz $\leq 0.5 \text{ kV}$ Rated insulation voltage Output function

3-wire, NO contact, NPN

Short-circuit protection yes/ cyclic Voltage drop at I. ≤ 1.8 V Wire breakage / Reverse polarity protection yes/ complete

Design threaded barrel, M12 x 1

Dimensions 63 mm Plastic, PA Housing material Plastic, PA, yellow Material active face Admissible pressure on front cap \leq 8 bar

1 Nm Max. tightening torque housing nut Connection cable

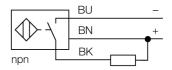
Ø 5.2, LifYY, PVC, 2 m Cable quality Cable cross section 3 x 0.25 mm² Vibration resistance 55 Hz (1 mm) Shock resistance 30 g (11 ms) Protection class

1080 years acc. to SN 29500 (Ed. 99) 40 $^{\circ}\text{C}$ MTTF

Switching state • yellow

- Threaded barrel, M12 x 1
- Plastic, PA12-GF30
- Fine adjustment via potentiometer
- DC 3-wire, 10...30 VDC
- NO contact, NPN output
- Cable connection

Wiring diagram



Functional principle

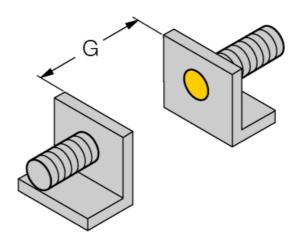
Capacitive proximity switches are designed for non-contact and wear-free detection of electrically conductive as well as non-conductive metal objects.

TURCK

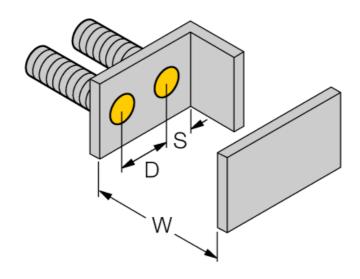
Capacitive sensor BC3-S12-AN6X



Mounting instructions / Description	minimum distances	
Distance D	24 mm	
Distance W	9 mm	
Distance S	18 mm	
Distance G	18 mm	
Diameter of the active area B	Ø 12 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.



Capacitive sensor BC3-S12-AN6X



Accessories

Type code	Ident no.	Description	Dimension drawing
MAP-M12-PP	6950016	Mounting adapter; material: Polypropylene; sensor replacement with filled container possible (adapter remains in container during sensor replacement)	036 R3/4 530 M12 x 1 012,5 42,5
MAP-M12-PVDF	6950017	Mounting adapter; material: Polyvenylidenflourid; sensor can be replaced with filled container (adapter remains in container during replacement)	0 36 R 3/4 0 30 M12 x 1 0 12,5 42,5
BST-12B	6947212	Fixing clamp for threaded barrel devices, with dead-stop; material: PA6	M5 28 40 18 18 18