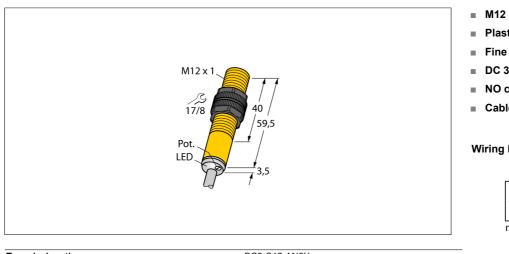
Capacitive sensor BC3-S12-AN6X





Type designation	BC3-S12-AN6X	
Ident-No.	2601300	
Rated switching distance (flush)	3 mm	
Rated switching distance (non-flush)	4.5 mm	
Secured operating distance	≤ (0.72 x Sn) mm	
Hysteresis	220 %	
Temperature drift	type 20 %	
Repeat accuracy	$\leq 2\%$ of full scale	
Ambient temperature	-25+70 °C	
Operating voltage	1030 VDC	
Residual ripple	≤ 10 % U	
DC rated operational current	< 200 mA	
No-load current I	≤ 15 mA	
Residual current	< 0.1 mA	
Switching frequency	0.1 kHz	
Isolation test voltage	≤ 0.5 kV	
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	
Approvals	UL	
Design	Threaded barrel,M12 × 1	
Dimensions	63 mm	
Housing material	Plastic, PA12-GF30	
Active area material	Plastic, PA12-GF30, yellow	
Admissible pressure on front cap	ible pressure on front cap \leq 8 bar	
Max. tightening torque housing nut	1 Nm	
Electrical connection	Cable	
Cable quality	Ø 5.2mm, LifYY, PVC, 2	
Cable cross section	3 x 0.25 mm ²	
Vibration resistance	55 Hz (1 mm)	
Shock resistance	30 g (11 ms)	
Dratastian alaga		

IP67

LED, Yellow

1

Switching state

Protection class

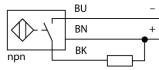
Packaging unit

MTTF

M12 × 1 threaded barrel

- 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.

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

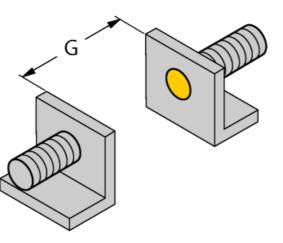
Capacitive sensor BC3-S12-AN6X



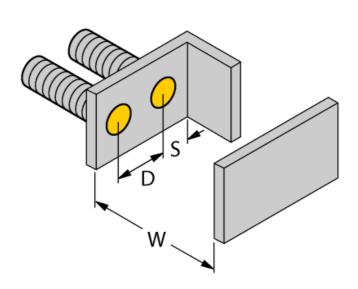
Mounting instructions/Description	minimum distances
Distance D	24 mm
Distance W	9 mm
Distance S	18 mm
Distance G	18 mm

Diameter active area B

Ø 12 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 BC3-S12-AN6X



Accessories

Type code	Ident-No.	Description	
MAP-M12-PP	6950016	Mounting adapter; material: Polypropylene; sensor replace- ment with filled container possible (adapter remains in con- tainer during sensor replacement)	e 36 R3/4 530 M12 x 1 0 12.5 42.5
MAP-M12-PVDF	6950017	Mounting adapter; material: Polyvenylidenflourid; sensor can be replaced with filled container (adapter remains in contain- er during replacement)	e 36 R 3/4 5 30 M12 x 1 0 125 425
BST-12B	6947212	Fixing clamp for threaded barrel devices, with dead-stop; ma- terial: PA6	