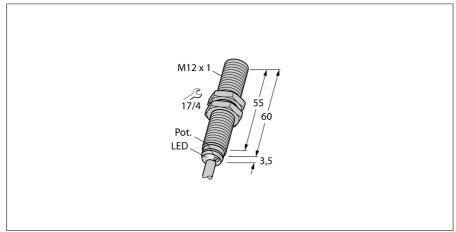
### Capacitive sensor BC3-M12-AN6X





Type designation	BC3-M12-AN6X	
Ident-No.	2601100	
Rated switching distance (flush)	3 mm	
Rated switching distance (non-flush)	3 mm	
Secured operating distance	≤ (0.72 x Sn) mm	
Hysteresis	220 %	
Temperature drift	type 20 %	
Repeat accuracy	≤ 2 % of full scale	
Ambient temperature	-25+70 °C	

Output function 3-wire, NO contact, NPN

 $\begin{tabular}{lll} Short-circuit protection & yes/ Cyclic \\ Voltage drop at I_e & & \leq 1.8 \ V \\ Wire breakage/Reverse polarity protection & yes/ Complete \\ \end{tabular}$ 

#### Approvals UL

Design	inreaded barrei,M12 × 1	

Dimensions 63.5 mm

Housing material Metal, CuZn, Chrome-plated Active area material Plastic, ABS, yellow

 $\begin{array}{ll} \mbox{Admissible pressure on front cap} & \leq 5 \mbox{ bar} \\ \mbox{Max. tightening torque housing nut} & 10 \mbox{ Nm} \\ \mbox{Electrical connection} & \mbox{Cable} \\ \end{array}$ 

Cable quality  $\emptyset$  4mm, LifYY, PVC, 2 Cable cross section  $3 \times 0.25 \text{ mm}^2$  Vibration resistance 55 Hz (1 mm) Shock resistance 30 g (11 ms) Protection class

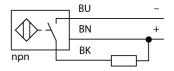
MTTF 1080 years acc. to SN 29500 (Ed. 99) 40  $^{\circ}$ C

Packaging unit

#### Switching state LED, Yellow

- M12 × 1 threaded barrel
- Chrome-plated brass
- Fine adjustment via potentiometer
- DC 3-wire, 10...30 VDC
- NO contact, NPN output
- Cable connection

#### Wiring Diagram



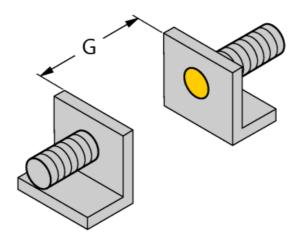
#### **Functional principle**

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

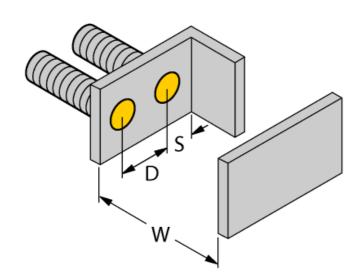
## Capacitive sensor BC3-M12-AN6X



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-M12-AN6X



#### **Accessories**

Type code	Ident-No.	Description	
MAP-M12-PP	6950016	Mounting adapter; material: Polypropylene; sensor replacement with filled container possible (adapter remains in container during sensor replacement)	0 36 R 3/4  5 30  M12 x 1  17  29  42.5
MAP-M12-PVDF	6950017	Mounting adapter; material: Polyvenylidenflourid; sensor can be replaced with filled container (adapter remains in container during replacement)	e 36 R 3/4  M12 x 1 17 6 6 7 29 42.5
BST-12B	6947212	Fixing clamp for threaded barrel devices, with dead-stop; material: PA6	M5 8 40 28 40 18 18 18 30 12 30 12 30