Capacitive sensor BC3-M12-AP6X



M12 x 1 17/4 Pot. LED 3,5		 M12 × 1 threaded barrel Chrome-plated brass Fine adjustment via potentiometer DC 3-wire, 1030 VDC NO contact, PNP output Cable connection Wiring Diagram Wiring Diagram
Type designation	BC3-M12-AP6X	
Ident-No.	2601000	Functional principle
Rated switching distance Sn	3 mm	Capacitive proximity switches are designed
Mounting conditions	Flush	for non-contact and wear-free detection of
Secured operating distance	\leq (0.72 x Sn) mm	electrically conductive as well as non-conduc-
Repeat accuracy	$\leq 2\%$ of full scale	tive metal objects.
Temperature drift	type 20 %	
Hysteresis	220 %	
Ambient temperature	-25+70 °C	
Storage temperature	-25+80 °C	
Operating voltage	1030 VDC	
Residual ripple	\leq 10 % U _{ss}	
DC rated operational current	≤ 200 mA	
No-load current I₀	≤ 15 mA	
Residual current	≤ 0.1 mA	
Isolation test voltage	≤ 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,M12 × 1	
Dimensions	63.5 mm Metal CuZn, Chromo plated	
Housing material Active area material	Metal, CuZn, Chrome-plated Plastic, ABS, yellow	
End cap	Plastic, PA	
Admissible pressure on front cap	≤ 5 bar	
Max. tightening torque housing nut	≤ 3 bai	
Electrical connection	Cable	
Cable quality	4mm, LifYY, PVC, 2	
Cable cross section	3 x 0.25 mm ²	
Vibration resistance	55 Hz (1 mm)	
	30 g (11 ms)	
Shock resistance		
Shock resistance Protection class		
Shock resistance Protection class MTTF	IP67 1080 years acc. to SN 29500 (Ed. 99) 40 °C	

Switching state

LED, Yellow

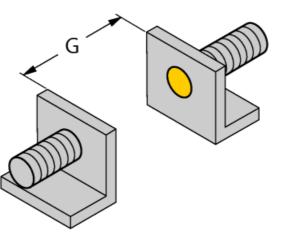
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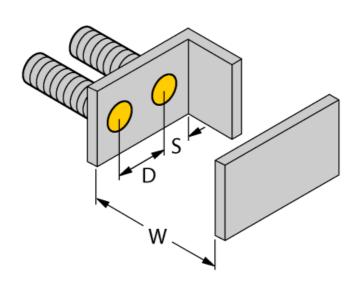
Mounting instructions/Description	minimum distances
Distance D	24 mm
Distance W	9 mm
Distance S	18 mm
Distance G	18 mm
Distance G	18 1111

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.



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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 R 3/4 530 M12 x 1 e 12.5 0 12.5 M12 x 1 e 36 R 3/4 17 29 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 M12 x 1 0 12.5 42.5
BST-12B	6947212	Fixing clamp for threaded barrel devices, with dead-stop; ma- terial: PA6	