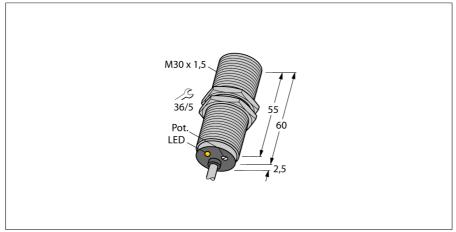
Capacitive sensor BC10-M30K-AZ3X

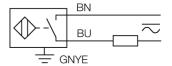




Type designation	BC10-M30K-AZ3X	
ldent-No.	2503031	
Rated switching distance (flush)	10 mm	
Rated switching distance (non-flush)	10 mm	
Secured operating distance	≤ (0.72 x Sn) mm	
Hysteresis	220 %	
Temperature drift	type 20 %	
Repeat accuracy	≤ 2 % of full scale	
Ambient temperature	-25+70 °C	
Operating voltage	20250VAC	
AC rated operational current	≤ 500 mA	
Frequency	≥ 50≤ 60 Hz	
Smallest operating current I _m	≥ 5 mA	
Residual current	≤ 1.7 mA	
Switching frequency	0.02 kHz	
Isolation test voltage	≤ 1.5 kV	
Output function	2-wire, NO contact, 2-wire	
Voltage drop at I _e	≤ 7 V	
Design	Threaded barrel,M30 × 1.5	
Dimensions	62.5 mm	
Housing material	Metal, CuZn, Chrome-plated	
Active area material	Plastic, PA12-GF30, yellow	
Admissible pressure on front cap	≤ 3 bar	
Max. tightening torque housing nut 25 Nm		
Electrical connection Cable		
Cable quality	e quality Ø 5.2mm, LifYY, PVC, 2	
able cross section 3 x 0.5 mm ²		
oration resistance 55 Hz (1 mm)		
Shock resistance	resistance 30 g (11 ms)	
Protection class	IP67	

- M30 × 1.5 threaded barrel
- Chrome-plated brass
- Fine adjustment via potentiometer
- AC 2-wire, 20...250 VAC
- NO contact
- 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.

MTTF Packaging unit

Switching state

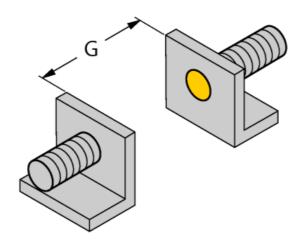
1080 years acc. to SN 29500 (Ed. 99) 40 °C

LED,Yellow

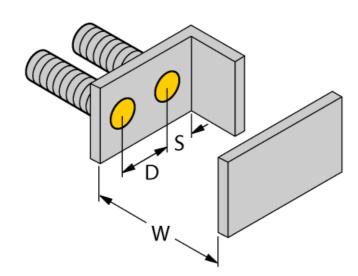
Capacitive sensor BC10-M30K-AZ3X



Mounting instructions/Description	minimum distances	
Distance D	60 mm	
Distance W	30 mm	
Distance S	45 mm	
Distance G	60 mm	
Diameter active area B	Ø 30 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 BC10-M30K-AZ3X



Accessories

Type code	Ident-No.	Description	
MAP-M30	6950013	Mounting adapter; material: Polypropylene; sensor replacement with filled container possible (adapter remains in container during sensor replacement)	0 52 346 R1 1/4 M30 x 1.5 0 31 23 32 47
BST-30B	6947216	Fixing clamp for threaded barrel devices, with dead-stop; material: PA6	M5 6 54 42 36 36 30 30 30