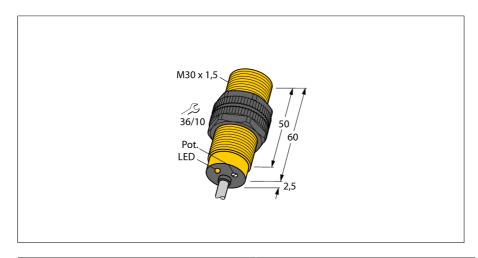
Capacitive sensor BCF10-S30-RZ3X





Type designation	BCF10-S30-RZ3X 2506013	
Ident-No.		
Rated switching distance Sn	10 mm	
Mounting conditions	Flush	
Secured operating distance	≤ (0.72 x Sn) mm	
Depost accuracy	< 2.0/ of full cools	

 $\begin{array}{lll} \mbox{Repeat accuracy} & \leq 2 \mbox{ \% of full scale} \\ \mbox{Temperature drift} & \mbox{type 20 \%} \\ \mbox{Hysteresis} & 2...20 \mbox{ \%} \\ \mbox{Ambient temperature} & -25...+70 \mbox{ °C} \\ \end{array}$

Output function 2-wire, NC contact, 2-wire

 $\label{eq:smallest operating current I_m} Smallest operating current I_m & \geq 5 \text{ mA} \\ Switching frequency & 0.02 \text{ kHz} \\$

Design Threaded barrel,M30 × 1.5

Dimensions 62.5 mm

Housing material Plastic, PA12-GF30, PEI
Active area material Plastic, PA12-GF30, yellow

Cable quality 5.2mm, LifYY, PVC, 2 Cable cross section $2 \times 0.34 \text{ mm}^2$ Vibration resistance 55 Hz (1 mm) Shock resistance 30 g (11 ms) Protection class IP67

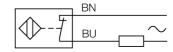
MTTF 1080 years acc. to SN 29500 (Ed. 99) 40 °C

Packaging unit

Switching state LED, Yellow

- M30 × 1.5 threaded barrel
- Plastic, PA12-GF30
- Fine adjustment via potentiometer
- Increased EMI protection (even with high frequency equipment)
- Suited for highly viscous media
- AC 2-wire, 20...250 VAC
- NC contact
- Cable connection

Wiring Diagram



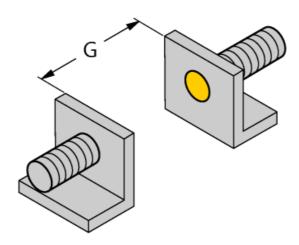
Functional principle

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

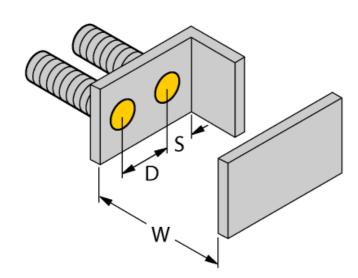
Capacitive sensor BCF10-S30-RZ3X



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 BCF10-S30-RZ3X



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)	e 52 546 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 54 42 42 30 36 30 30