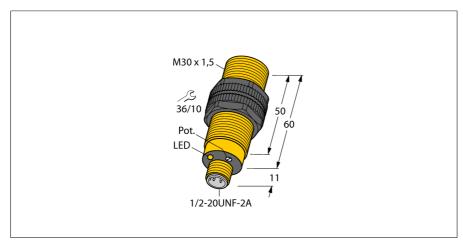
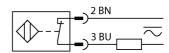
Capacitive sensor BC10-S30-RDZ3X-B3131





- M30 × 1.5 threaded barrel
- Plastic, PA12-GF30
- Fine adjustment via potentiometer
- AC 2-wire, 20...250 VAC
- DC 2-wire, 20...320 VDC
- 1/2" connector

Wiring Diagram



Type designation	BC10-S30-RDZ3X-B3131		
Ident-No.	2310820		
Rated switching distance (flush)	10 mm		
Rated switching distance (non-flush)	15 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	20 250VAC		

Operating voltage 20...250VAC Operating voltage 20...320 VDC AC rated operational current ≤ 200 mA DC rated operational current \leq 200 mA ≥ 50...≤ 60 Hz Frequency Smallest operating current I_m \geq 3 mA Residual current \leq 1.7 mA Switching frequency 0.02 kHz Isolation test voltage $\leq 1.5 \text{ kV}$ Output function 2-wire, 2-wire Voltage drop at I. $\leq 7~V$

Design	Threaded barrel,M30 × 1.5		
Dimensions	60 mm		
Housing material	Plastic, PA12-GF30, PEI		
Active area material	Plastic, PA12-GF30, yellow		
Admissible pressure on front cap	≤ 3 bar		
Max. tightening torque housing nut	5 Nm		
Electrical connection	Connector, 1/2"		
Vibration resistance	55 Hz (1 mm) 30 g (11 ms) IP67		
Shock resistance			
Protection class			
MTTF	1080 years acc. to SN 29500 (Ed. 99) 40 °C		
Packaging unit	1		
Switching state	LED,Yellow		

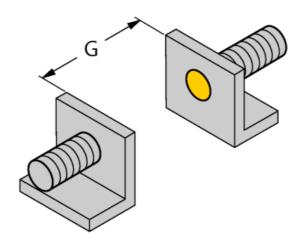
Functional principle

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

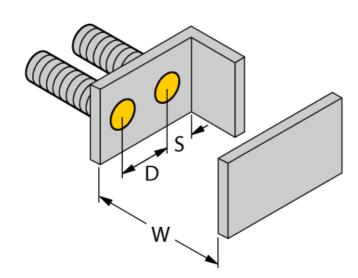
Capacitive sensor BC10-S30-RDZ3X-B3131



Mounting instructions/Description	minimum distances	
Distance D	60 mm 30 mm	
Distance W		
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-S30-RDZ3X-B3131



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)	M30 x 1.5 0 31 32 33 32 47
BST-30B	6947216	Fixing clamp for threaded barrel devices, with dead-stop; material: PA6	M5 6 54 42 36 36 36 30 30 30 30