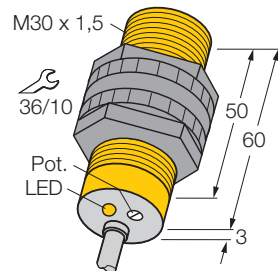


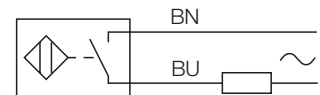
Capacitive sensor

BC10-S30-AZ3X



- threaded barrel, M30 x 1,5
- plastic, PA12-GF30
- fine adjustment via potentiometer
- 2-wire AC, 20...250 VAC
- normally open
- cable connection

Wiring diagram



Function principles

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

Type	BC10-S30-AZ3X
Ident-No.	2310700
Rated operating distance S_n	10 mm, flush mounting
Rated operating distance S_n	15 mm, non-flush mounting
Hysteresis (switching distance)	2... 20 %
Temperature drift	$\leq \pm 20 \%$
Min. repeat accuracy	$\leq 2 \%$
Operating temperature	-25 ... + 70 °C
Rated operational voltage (AC) U_B	20... 250 VAC
Rated operational current (AC) I_e	≤ 500 mA
Line frequency	50... 60 Hz
Min. operational current I_m	≥ 5 mA
Max. OFF-state current	$\leq 1,7$ mA
Max. switching frequency	$\leq 0,02$ kHz
Rated insulation voltage	$\leq 1,5$ kV
Output function	2-wire, normally open
Max. voltage drop at I_e	≤ 7 V
Housing style	threaded barrel; M30 x 1,5
Dimensions	63 mm
Housing material	plastic, PA12-GF30
Active face	plastic, PA12-GF30
Max. fixing torque of coupling nut	5 Nm
Wiring	cable
Cable	$\varnothing 5,2$, LifYY, PVC, 2 m
Cable cross section	2 x 0,34 mm ²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 x g (11 ms)
Degree of protection	IP67
Switching status indication	LED yellow

Capacitive sensor

BC10-S30-AZ3X

Accessories

Typ	Ident-No.	Description	Dimension drawing
MAP-M30	6950013	mounting adapter; material: Polypropylen; sensor replacement with filled container possible (adapter remains in container during sensor replacement)	The dimension drawing shows three technical drawings of accessories. The top drawing is the MAP-M30 mounting adapter, a cylindrical part with dimensions: outer diameter 52, inner diameter 31, thread M30 x 1.5, and a radius R 1 1/4. The middle drawing is the BST-30B fixing clamp, a rectangular block with dimensions: width 64, height 38, and depth 30. The bottom drawing is the QM-30 quick-mount fixing clamp, a smaller cylindrical part with dimensions: outer diameter 30, inner diameter 16, and height 10.
BST-30B	6947216	fixing clamp with dead-stop; material: PA6	
QM-30	6945103	quick-mount fixing clamp with dead-stop; material: chrome-plated brass external thread M36 x 1,5.	