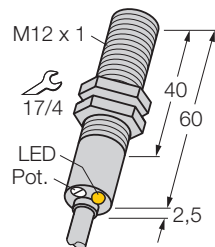


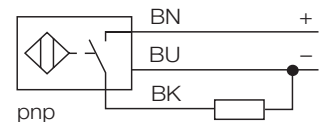
Capacitive sensor

BC3-M12-AP6X



- threaded barrel, M12 x 1
- chrome-plated brass
- fine adjustment via potentiometer
- 3-wire DC, 10...30 VDC
- normally open pnp output
- cable connection

Wiring diagram



Function principles

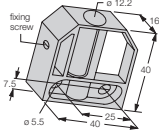
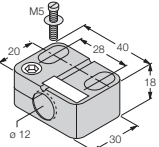
Capacitive proximity switches are designed for non-contact and wear-free detection of metal (electrically conductive) and non-metal (electrically non-conductive) objects.

Type	BC3-M12-AP6X
Ident-No.	2601000
Rated operating distance Sn	3 mm, flush mounting
Rated operating distance Sn	3 mm, non-flush mounting
Hysteresis (switching distance)	2... 20 %
Temperature drift	≤ ± 20 %
Min. repeat accuracy	≤ 2 %
Operating temperature	-25 ...+ 70 °C
Rated operational voltage (DC) U_B	10... 30 VDC
Max. ripple	≤ 10 % U _{pp}
Rated operational current (DC) I _e	≤ 200 mA
No-load current I ₀	≤ 15 mA
Max. OFF-state current	≤ 0,1 mA
Max. switching frequency	≤ 0,1 kHz
Rated insulation voltage	≤ 0,5 kV
Output function	3-wire, normally open, PNP
Short-circuit protection	yes, cyclic
Max. voltage drop at I _e	≤ 1,8 V
Wire breakage / reverse polarity protection	yes / complete
Housing style	threaded barrel; M12x1
Dimensions	60 mm
Housing material	metal, CuZn, chrome-plated
Active face	plastic, ABS
Max. fixing torque of coupling nut	10 Nm
Wiring	cable
Cable	Ø 4, LifYY, PVC, 2 m
Cable cross section	3 x 0,25 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

BC3-M12-AP6X

Accessories

Typ	Ident-No.	Description	Dimension drawing
BS12	69470	fixing clamp; material: PBT-GF20	
BST-12B	6947212	fixing clamp with dead-stop; material: PA6	
QM-12	6945101	quick-mount fixing clamp with dead-stop; material: chrome-plated brass external thread M16 x 1	