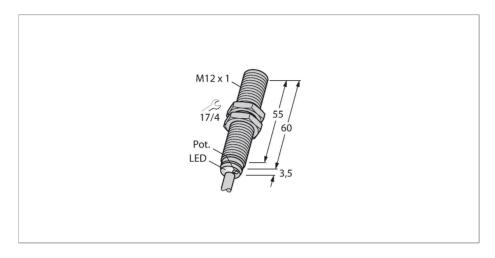


# BC3-M12-AP6X Capacitive Sensor



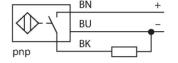
### Technical data

Туре	BC3-M12-AP6X
ID	2601000
Rated switching distance (flush)	3 mm
Rated switching distance (non-flush)	3 mm
Secured operating distance	≤ (0.72 × Sn)
Hysteresis	120 %
Temperature drift	Typical 20 %
Repeat accuracy	≤ 2 % of full scale
Ambient temperature	-25+70 °C
Storage temperature	-25+80 °C
Electrical data	
Operating voltage	30 VDC
Residual ripple	≤ 10 % U <sub>ss</sub>
DC rated operational current	≤ 200 mA
No-load current	≤ 15 mA
Residual current	≤ 0.1 mA
Switching frequency	0.1 kHz
Oscillation frequency	According to EN 60947-5-2, 8.2.6.2 Table 9: 0.12.0 MHz
Isolation test voltage	≤ 0.5 kV
Output function	3-wire, NO contact, PNP
Short-circuit protection	yes / Cyclic
Voltage drop at I。	≤ 1.8 V

## **Features**

- ■M12 × 1 threaded barrel
- Chrome-plated brass
- Fine adjustment via potentiometer
- ■DC 3-wire, 10...30 VDC
- ■NO contact, PNP output
- 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.

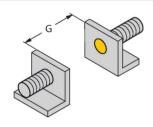


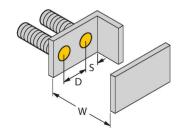
#### Technical data

Wire breakage/Reverse polarity yes / Complete protection Tests/approvals Mechanical data Design Threaded barrel, M12 x 1 Dimensions 63.5 mm Housing material Metal, CuZn, Chrome-plated Active area material **ABS** Admissible pressure on front cap ≤ 5 bar 10 Nm Max. tightening torque of housing nut Electrical connection Cable Ø 4 mm, LifYY, PVC, 2 m Cable quality Core cross-section 3 x 0.25 mm<sup>2</sup> 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 Power-on indication Green LED, Yellow Switching state

## Mounting instructions

#### Product features





Distance D	24 mm
Distance W	9 mm
Distance S	18 mm
Distance G	18 mm
Diameter active area B	Ø 12 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.