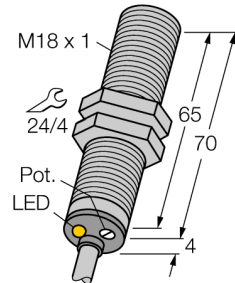


# capacitive sensor BC5-M18-AP4X

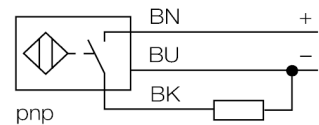
**TURCK**

Industrial  
Automation



- Threaded barrel, M18 x 1
- Chrome-plated brass
- Fine adjustment via potentiometer
- DC 3-wire, 10...65 VDC
- NO contact, PNP output
- Cable connection

### Wiring diagram



### Functional principle

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

<b>Type</b>	BC5-M18-AP4X
Ident-No.	2504001
<b>Rated operating distance Sn</b>	5 mm, flush mounting
Rated operating distance Sn	5 mm, non-flush mounting
Assured sensing range	≤ (0,72 x Sn) mm
Hysteresis	2...20
Temperature drift	≤ ± 20 %
Repeatability	≤ 2 %
Ambient temperature	-25...+70
<b>Operating voltage</b>	10...65
Residual ripple	≤ 10 % U <sub>SS</sub>
DC rated operational current	≤ 200 mA
No-load current I <sub>0</sub>	≤ 15 mA
Residual current	≤ 0.1 mA
Switching frequency	≤ 0.1 kHz
Rated insulation voltage	≤ 0.5 kV
Output function	3-wire, NO contact, PNP
Short-circuit protection	yes/ cyclic
Voltage drop at I <sub>e</sub>	≤ 1.8 V
Wire breakage / Reverse polarity protection	yes/ complete
<b>Design</b>	threaded barrel, M18 x 1
Dimensions	74
Housing material	Metal, CuZn, chrome-plated
Material active face	Plastic, PBT-GF30-V0
Tightening torque of housing nut	25 Nm
Connection	cable
Cable quality	5.2, LifYY, PVC, 2
Cable cross section	3 x 0.34
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
<b>Switching state</b>	LED yellow
<b>Diameter of the active area B</b>	Ø 18 mm

**Accessories**

Type code	Ident-No.	Short text	Dimension drawing
BS 18	69471	Fixing clamp; material: PA66-GF	
BSN 18	69472	Fixing clamp; material: PA66-GF	
BST-18B	6947214	Fixing clamp with dead-stop; material: PA6	
MAP-M18	6950012	Mounting adapter; material: Polypropylene; sensor replacement with filled container possible (adapter remains in container during sensor replacement)	