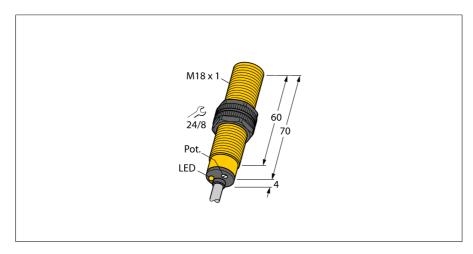
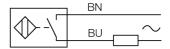
### Capacitive sensor **BC5-S18-AZ3X**





- M18 × 1 threaded barrel
- Plastic, PA12-GF30
- Fine adjustment via potentiometer
- AC 2-wire, 20...250 VAC
- **NO** contact
- Cable connection

### Wiring Diagram



Type designation	BC5-S18-AZ3X	
Ident-No.	2305500	
Rated switching distance (flush)	5 mm	
Rated switching distance (non-flush)	7.5 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	20250VAC	

 $\leq$  500 mA

74 mm

Threaded barrel,M18 × 1

#### **Functional principle**

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

Operating voltage
AC rated operational current
Frequency
Smallest operating current I <sub>m</sub>
Residual current
Switching frequency
Isolation test voltage
Output function
A fall and a discount of the

Design

Dimensions

≥ 50...≤ 60 Hz  $\geq$  5 mA  $\leq$  1.7 mA 0.02 kHz  $\leq 1.5 \text{ kV}$ 2-wire, NO contact, 2-wire Voltage drop at I<sub>e</sub>  $\leq$  7 V

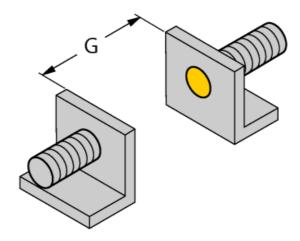
Plastic, PA12-GF30, PEI Housing material Active area material Plastic, PA12-GF30, yellow Admissible pressure on front cap  $\leq$  6 bar 2 Nm Max. tightening torque housing nut Electrical connection Cable Ø 5.2mm, LifYY, PVC, 2 Cable quality Cable cross section 2 x 0.34 mm<sup>2</sup> Vibration resistance 55 Hz (1 mm) Shock resistance 30 g (11 ms) Protection class 1080 years acc. to SN 29500 (Ed. 99) 40 °C MTTF Packaging unit

Switching state LED, Yellow

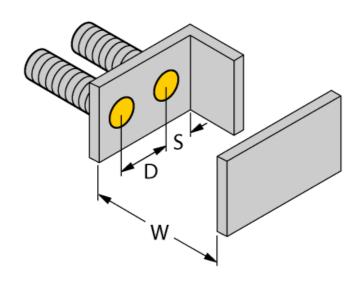
## Capacitive sensor BC5-S18-AZ3X



Mounting instructions/Description	minimum distances	
Distance D	36 mm	
Distance W	15 mm	
Distance S	27 mm	
Distance G	30 mm	
Diameter active area B	Ø 18 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 BC5-S18-AZ3X



### **Accessories**

Type code	Ident-No.	Description	
BS-18	69471	Mounting bracket for threaded barrel devices; material: PA66-GF	0 18.2 40 7.5 0 5.5 (2x)
BSN 18	69472	Fixing clamp; material: PA66-GF	32 0 18 0 18 26 0 18 5 Mex 30 DIN 912
BST-18B	6947214	Fixing clamp for threaded barrel devices, with dead-stop; material: PA6	M5 28 40 24 24 30 30
MAP-M18	6950012	Mounting adapter; material: Polypropylene; sensor replacement with filled container possible (adapter remains in container during sensor replacement)	M18 x 1 0 19 17 29 42,5