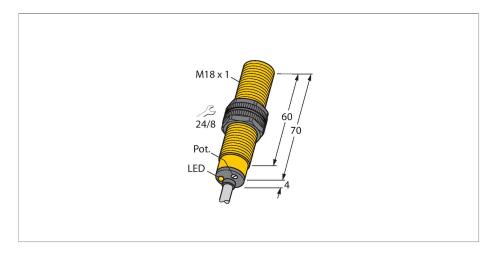
BCF5-S18-AP4X | 30-11-2022 15-09 | Technical modifications reserved

BCF5-S18-AP4X Capacitive Sensor



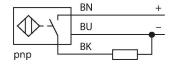
Technical data

Туре	BCF5-S18-AP4X
ID	2503011
Rated switching distance (flush)	5 mm
Rated switching distance (non-flush)	5 mm
Secured operating distance	≤ (0.72 × Sn)
Hysteresis	120 %
Temperature drift	Typical 20 %
Repeat accuracy	≤ 2 % of full scale
Ambient temperature	-25+70 °C
Electrical data	
Operating voltage	1065 VDC
Residual ripple	≤ 10 % U _{ss}
DC rated operational current	≤ 200 mA
No-load current	≤ 15 mA
Residual current	≤ 0.1 mA
Switching frequency	0.1 kHz
Isolation test voltage	≤ 0.5 kV
Output function	3-wire, NO contact, PNP
Short-circuit protection	yes / Cyclic
Voltage drop at I _e	≤ 1.8 V
Wire breakage/Reverse polarity protection	yes / Complete
Tests/approvals	
Approvals	UL
UL registration number	E210608
Mechanical data	
Design	Threaded barrel, M18 × 1

Features

- ■M18 × 1 threaded barrel
- Plastic, PA12-GF30
- Fine adjustment via potentiometer
- ■Increased EMI protection (even with high frequency equipment)
- Suited for highly viscous media
- ■DC 3-wire, 10...65 VDC
- ■NO contact, PNP output
- Cable connection

Wiring diagram



Functional principle

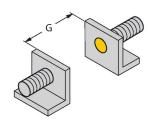
Capacitive proximity switches are designed for non-contact and wear-free detection of electrically conductive as well as nonconductive metal objects.

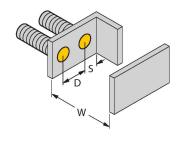
Technical data

74 mm
Plastic, PA12-GF30, PEI
PA12-GF30, yellow
≤ 6 bar
2 Nm
Cable
Ø 5.2 mm, LifYY, PVC, 2 m
3 x 0.34 mm²
55 Hz (1 mm)
30 g (11 ms)
IP67
1080 years acc. to SN 29500 (Ed. 99) 40 °C
LED, Yellow

Mounting instructions

Product features



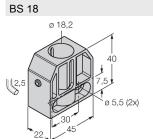


Distance D	36 mm
Distance W	15 mm
Distance S	27 mm
Distance G	30 mm
Diameter active area B	Ø 18 mm

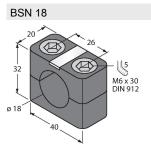
The given minimum distances have been checked against the standard switching distance.

Should the sensitivity of the sensors be changed via potentiometer, the data sheet specifications no longer apply.

Accessories



69471 Mounting clamp for threaded barrel sensors; material: PA66-GF



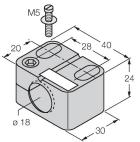
Mounting clamp for threaded barrel sensors; material: PA66-GF

69472



6950012

BST-18B 6947214



Mounting clamp for threaded barrel sensors, with dead-stop; material: PA6

MAP-M18 R 3/4

Mounting adapter; material: Polypropylene; sensor replacement with filled container possible (adapter remains in container during sensor

replacement)