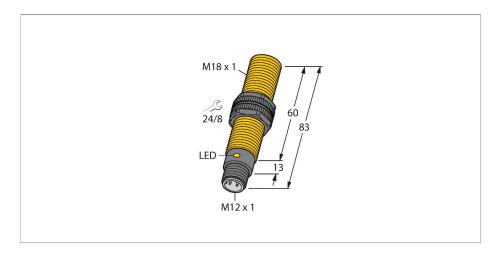
BC5-S18-RP4X-H1141/S250 Capacitive Sensor





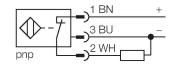
Туре	BC5-S18-RP4X-H1141/S250	
ID	2601209	
Rated switching distance (flush)	5 mm	
Rated switching distance (non-flush)	5 mm	
Secured operating distance	≤ (0.72 × Sn) mm	
Hysteresis	120 %	
Temperature drift	Typical 20 %	
Repeat accuracy	≤ 2 % of full scale	
Ambient temperature	-25+70 °C	
Electrical data		
Operating voltage U _B	65 VDC	
	1030 VDC for use in China	
Ripple U _{ss}	≤ 10 % U _{Bmax}	
DC rated operating current I _o	≤ 200 mA	
No-load current	≤ 15 mA ≤ 0.1 mA 0.1 kHz	
Residual current		
Switching frequency		
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, NC contact, PNP	
Short-circuit protection	yes/Cyclic	
Voltage drop at I _e	≤ 1.8 V	
Wire break/reverse polarity protection	yes/Complete	
Tests/approvals		
Approvals	UL	
UL registration number	E210608	

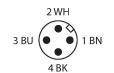


Features

- ■M18 × 1 threaded barrel
- ■Plastic, PA12-GF30
- Fixed settings
- ■DC 3-wire, 10...65 VDC
- ■NC contact, PNP output
- ■M12 × 1 connector

Wiring diagram





Functional principle

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

Flush mounting may result in a change of switching behaviour.

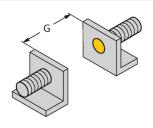


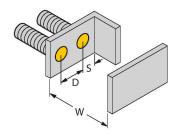
Technical data

Mechanical data		
Design	Threaded barrel, M18 x 1	
Dimensions	83 mm	
Housing material	Plastic, PA12-GF30, PEI	
Active area material	PA12-GF30, yellow	
Admissible pressure on front cap	≤ 6 bar	
Max. tightening torque of housing nut	2 Nm	
Electrical connection	Connector, M12 × 1	
Vibration resistance	55 Hz (1 mm) 30 g (11 ms)	
Shock resistance		
Protection class	IP67	
MTTF	1080 years acc. to SN 29500 (Ed. 99) 40 °C	
Switching state	LED, Yellow	

Mounting instructions

Product features





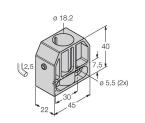
	Distance D	36 mm
	Distance W	15 mm
	Distance S	27 mm
	Distance G	30 mm
	Diameter active area B	Ø 18 mm

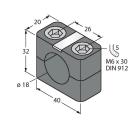
The given minimum distances have been checked against the standard switching

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

Accessories

BS 18 69471 **BSN 18** 69472 Mounting clamp for threaded barrel sensors; material: PA66-GF



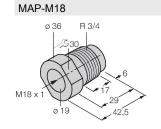


Mounting clamp for threaded barrel sensors; material: PA66-GF

6950012

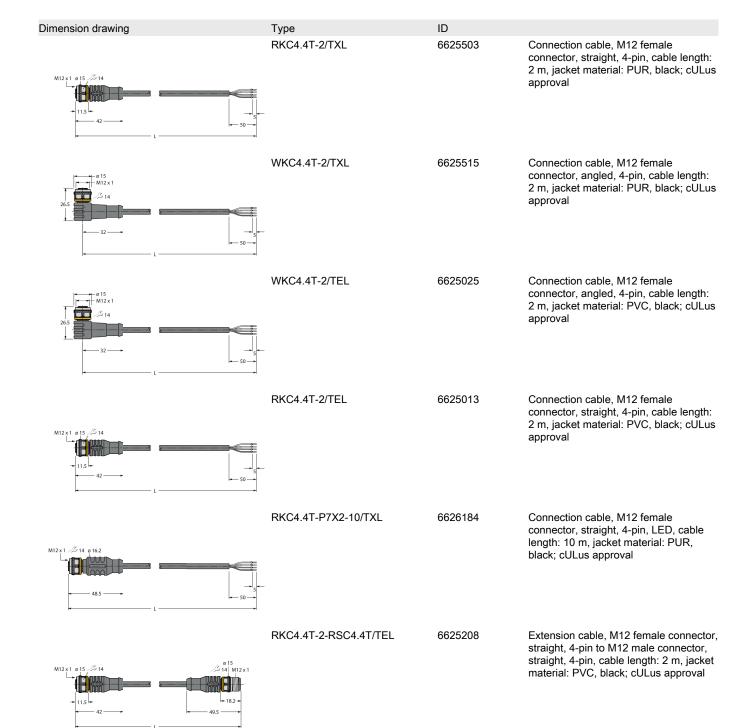
BST-18B 6947214

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



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

Accessories





Dimension drawing	Туре	ID	
M12x1 o 15 /3 14	RKC4.4T-2-RSC4.4T/TXL	6625608	Extension cable, M12 female connector, straight, 4-pin to M12 male connector, straight, 4-pin; cable length: 2 m, jacket material: PUR, black; cULus approval
M12x1 e 15 2 14 0 15 14 33.5	RKC4.4T-2-WSC4.4T/TXL	6625624	Extension cable, M12 female connector, straight, 4-pin to M12 male connector, angled, 4-pin; cable length: 2 m, jacket material: PUR, black; cULus approval
0 15 M12 x 1 0 15 14 33.5	WKC4.4T-2-WSC4.4T/TXL	6625656	Extension cable, M12 female connector, angled, 4-pin to M12 male connector, angled, 4-pin; cable length: 2 m, jacket material: PUR, black; cULus approval