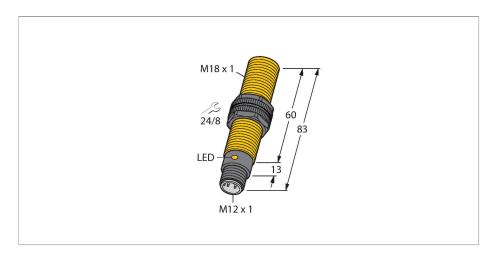


BC5-S18-AN4X-H1141/S250 Capacitive Sensor





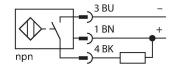
Type	BC5-S18-AN4X-H1141/S250		
ID	2503108		
Rated switching distance (flush)	5 mm		
Rated switching distance (non-flush)	5 mm		
Secured operating distance	≤ (0.72 × Sn) mm		
Hysteresis	120 %		
Temperature drift	Typical 20 %		
Repeat accuracy	≤ 2 % of full scale		
Ambient temperature	-25+70 °C		
Electrical data			
Operating voltage U _B	65 VDC		
Ripple U _{ss}	≤ 10 % U _{Bmax}		
DC rated operating current I _o	≤ 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, NPN		
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
- ■NO contact, NPN 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.

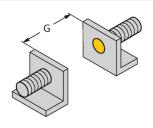


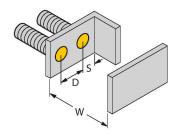
Technical data

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)		
Shock resistance	30 g (11 ms)		
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

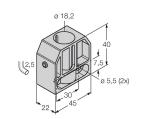
The given minimum distances have been checked against the standard switching distance.

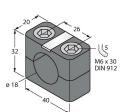
Should the sensitivity of the sensors be changed via potentiometer, the data sheet specifications no longer apply.

Accessories

BS 18 69471 BSN 18

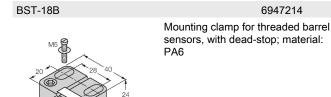
Mounting clamp for threaded barrel sensors; material: PA66-GF Mounting clamp sensors; material: PA66-GF

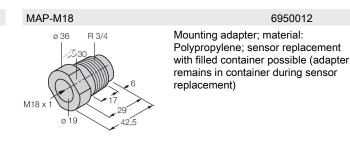




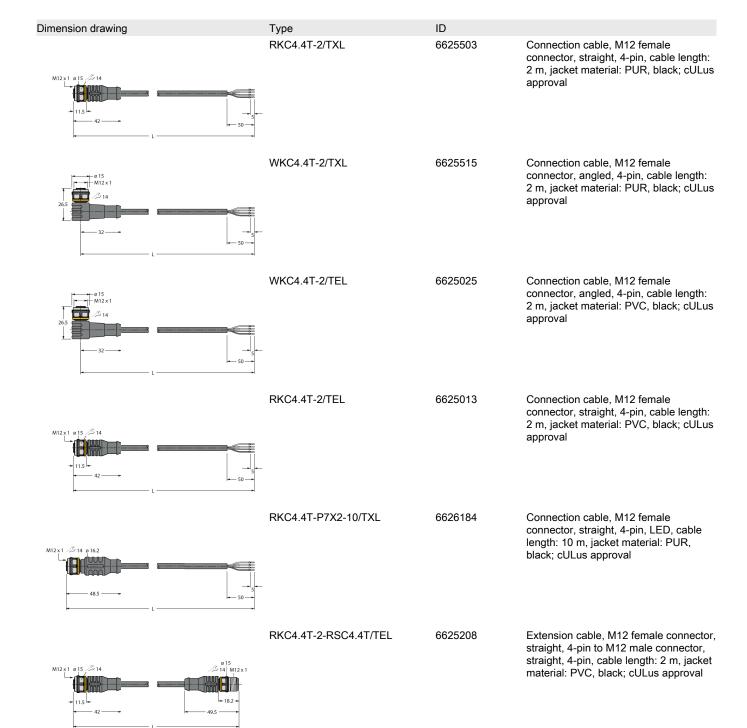
Mounting clamp for threaded barrel sensors; material: PA66-GF

69472





Accessories





Dimension drawing	Туре	ID	
M12x1 0 15 3 14 0 15 3 14 M12x1 1 11.5 + 18.2 + 49.5	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	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
015 M12×1 015 015 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