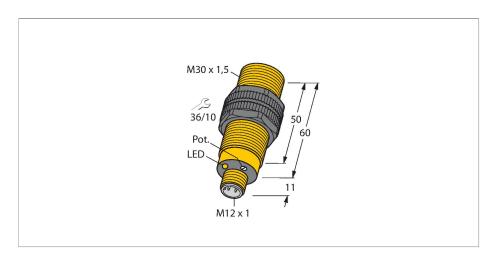


BC10-S30-VN4X-H1141 Capacitive Sensor



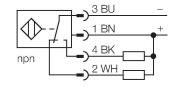
Technical data

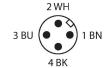
Туре	BC10-S30-VN4X-H1141	
ID	2506010	
Rated switching distance (flush)	10 mm	
Rated switching distance (non-flush)	15 mm	
Secured operating distance	≤ (0.72 × Sn) mm	
Hysteresis	120 %	
Temperature drift	Typical 20 %	
Repeat accuracy	≤ 2 % of full scale	
Ambient temperature	-25+70 °C	
Electrical data		
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 Tabl 9: 0.12.0 MHz	
Isolation test voltage	0.5 kV	
Output function	4-wire, Complementary 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

- ■M30 × 1.5 threaded barrel
- Plastic, PA12-GF30
- Fine adjustment via potentiometer
- ■DC 4-wire, 10...65 VDC
- Complementary contact, NPN output
- ■M12 × 1 connector

Wiring diagram





Functional principle

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

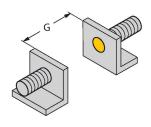


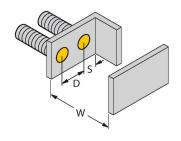
Technical data

Mechanical data			
Design	Threaded barrel, M30 x 1.5		
Dimensions	60 mm		
Housing material	Plastic, PA12-GF30, PEI		
Active area material	PA12-GF30, yellow		
Admissible pressure on front cap	≤ 3 bar		
Max. tightening torque of housing nut	5 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





60 mm
30 mm
45 mm
60 mm
Ø 30 mm

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

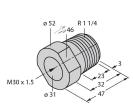
Should the sensitivity of the sensors be changed via potentiometer, the data sheet specifications no longer apply.

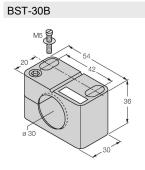
Accessories

MAP-M30 6950013

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

replacement)





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

6947216



Accessories

Dimension drawing	Туре	ID	
M12x1 015 14 14 11.5 4 14 15 50 -	RKC4.4T-2/TXL	6625503	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PUR, black; cULus approval
015 M12x1 26.5 32 	WKC4.4T-2/TXL	6625515	Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PUR, black; cULus approval
0 15 M12 x 1 265 32 	WKC4.4T-2/TEL	6625025	Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval
M12x1 e15	RKC4.4T-2/TEL	6625013	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval
M12x1 2/14 e162	RKC4.4T-P7X2-10/TXL	6626184	Connection cable, M12 female connector, straight, 4-pin, LED, cable length: 10 m, jacket material: PUR, black; cULus approval
M12x1 e 15 & 14	RKC4.4T-2-RSC4.4T/TEL	6625208	Extension cable, M12 female connector, straight, 4-pin to M12 male connector, straight, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval
M12x1 015 14 015 14 015 14 M12x1 015 14 M12x1 015 14 M12x1 015 14 M12x1 015 15 16 M12x1 015 16 M	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



Dimension drawing	Туре	ID	
M12x1 015 2/14 015 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
015 M12x1 015 14 32	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