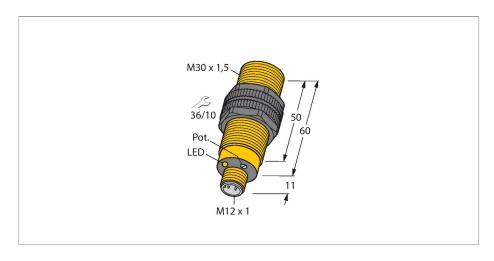


BCF10-S30-VP4X-H1141 Capacitive Sensor



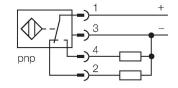
Technical data

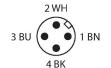
Туре	BCF10-S30-VP4X-H1141		
ID	2506117		
Rated switching distance (flush)	10 mm		
Rated switching distance (non-flush)	10 mm		
Secured operating distance	≤ (0.72 × Sn) mm		
Hysteresis	120 %		
Temperature drift	Typical 20 %		
Repeat accuracy	≤ 2 % of full scale		
Ambient temperature	-25+70 °C		
Electrical data			
Operating voltage U _B	65 VDC		
Ripple U _{ss}	≤ 10 % U _{Bmax}		
DC rated operating current I _e	≤ 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	4-wire, Complementary 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		
Mechanical data			
Design	Threaded barrel, M30 x 1.5		
Dimensions	60 mm		

Features

- ■M30 × 1.5 threaded barrel
- Plastic, PA12-GF30
- Fine adjustment via potentiometer
- ■Increased EMI protection (even with high frequency equipment)
- Suited for highly viscous media
- ■DC 4-wire, 10...65 VDC
- Complementary contact, PNP 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.

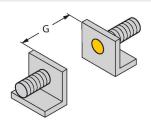


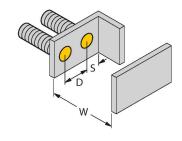
Technical data

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





Distance D	60 mm
Distance W	30 mm
Distance S	45 mm
Distance G	60 mm
Diameter active area B	Ø 30 mm

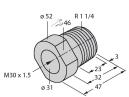
The given minimum distances have been checked against the standard switching distance.

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

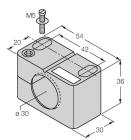
Accessories

MAP-M30 6950013 BST-30B

Mounting adapter; material:
Polypropylene; sensor replacement



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	
M12×1 0 15	RKC4.4T-2/TXL	6625503	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PUR, black; cULus approval
0 15 M12 x 1 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 26.5 26.5 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 015	RKC4.4T-2/TEL	6625013	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PVC, black; cULus approval
M12 x 1 3/14 e 16.2 48.5 48.5	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 e15 14 015 14 M12x1 11.5 - 42 - 49.5	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 e 15 1/2 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



Dimension drawing	Туре	ID	
M12x1 o 15 0 14 0 15 0 14 33.5 14 33.5 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 015 015 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