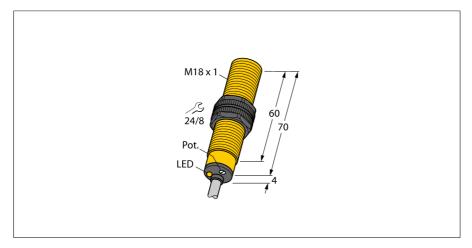
Capacitive sensor BCF5-S18-RP4X/S90





Type designation	BCF5-S18-RP4X/S90
Ident-No.	2503006
Ident-No (TUSA)	M2503006

Rated switching distance (flush)	5 mm	
Rated switching distance (non-flush)	5 mm	
Secured operating distance	≤ (0.72 x Sn) mm	
Hysteresis	220 %	
Temperature drift	type 20 %	
Repeat accuracy	≤ 2 % of full scale	
Ambient temperature	-25+70 °C	

Operating voltage	1065 VDC
	1030 VDC for use in China

Output function 3-wire, NC contact, PNP

 $\begin{tabular}{lll} Short-circuit protection & yes/ Cyclic \\ Voltage drop at I_s & \le 1.8 \ V \\ Wire breakage/Reverse polarity protection & yes/ Complete \\ \end{tabular}$

Approvals UL

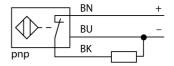
Design	Threaded barrel, M18 × 1	
Dimensions	74 mm	
Housing material	Plastic, PA12-GF30, PEI	
Active area material	Plastic, PA12-GF30, yellow	
Admissible pressure on front cap	≤ 6 bar	
Max. tightening torque housing nut	2 Nm	
Electrical connection	Cable	
Cable quality	Ø 5.2, LifYY-11Y, PUR, 2	
Cable cross section	3 x 0.34 mm ²	
Vibration resistance	55 Hz (1 mm)	
Shock resistance	30 g (11 ms)	
Protection class	IP67	

Switching state LED yellow

■ 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
- NC 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 non-conductive metal objects.

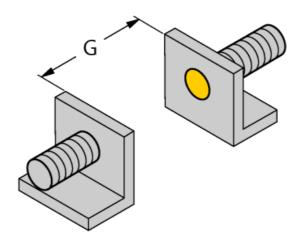
MTTF

1080 years acc. to SN 29500 (Ed. 99) 40 $^{\circ}\text{C}$

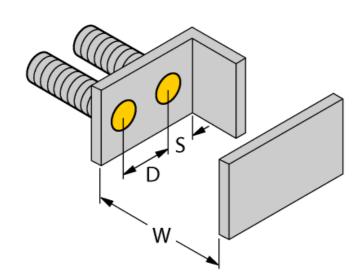
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Mounting instructions/Description	minimum distances
Distance D	36 mm
Distance W	15 mm
Distance S	27 mm
Distance G	30 mm
Diameter active area B	Ø 18 mm



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.



Capacitive sensor BCF5-S18-RP4X/S90



Accessories

Type code	Ident-No.	Description	
BS-18	69471	Mounting bracket for threaded barrel devices; material: PA66-GF	0 18,2 40 7,5 0 5,5 (2x)
BSN 18	69472	Fixing clamp; material: PA66-GF	20 26
			32 M6 x 30 DIN 912
BST-18B	6947214	Fixing clamp for threaded barrel devices, with dead-stop; material: PA6	M5 2
			20 28 40 24 24 24
MAP-M18	6950012	Mounting adapter; material: Polypropylene; sensor replacement with filled container possible (adapter remains in con-	o 36 R 3/4
		tainer during sensor replacement)	M18 x 1 0 17 29 42,5