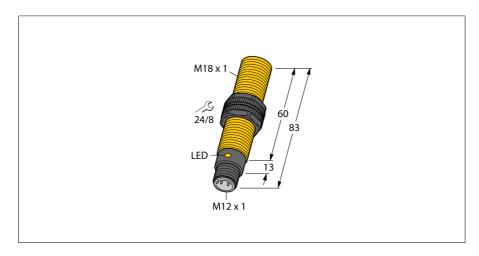
TURCK

Capacitive sensor BCF5-S18-AP4X-H1141/S250





Ident no.	2503010	
Rated switching distance (flush)	5 mm	
Rated switching distance (non-flush)	5 mm	
Assured sensing range	≤ (0.72 x Sn) mm	
Hystoresis	2 20 %	

Hysteresis 2...20 % type ≤ ± 20 % Temperature drift Repeatability \leq 2 % of full scale -25...+70 °C Ambient temperature

Operating voltage 10...65VDC Residual ripple $\leq 10~\%~U_{ss}$ DC rated operational current ≤ 200 mA No-load current Io ≤ 15 mA Residual current $< 0.1 \, \text{mA}$ Switching frequency 0.1 kHz Rated insulation voltage $\leq 0.5 \; kV$

3-wire, NO contact, PNP Output function Short-circuit protection yes/ cyclic

Voltage drop at I ≤ 1.8 V Wire breakage / Reverse polarity protection yes/ complete

Design threaded barrel, M18 x 1

Housing material plastic, PA Material active area Plastic, PA, yellow Admissible pressure on front cap ≤ 6 bar Max. tightening torque housing nut 2 Nm Connection male, M12 x 1 Vibration resistance 55 Hz (1 mm) Shock resistance 30 g (11 ms) Protection class

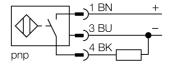
1080 years acc. to SN 29500 (Ed. 99) 40 °C

83 mm

Switching state LED yellow

- Threaded barrel, M18 x 1
- Plastic, PA12-GF30
- **Fixed settings**
- Increased RFI protection (even with high frequency equipment)
- Suited for highly viscous media
- DC 3-wire, 10...65 VDC
- NO contact, PNP output
- M12 x 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.

Flush mounting may result in a change of switching behaviour.

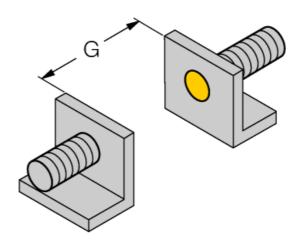
Dimensions

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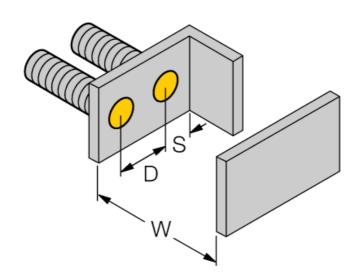
Capacitive sensor BCF5-S18-AP4X-H1141/S250



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



The given minimum distances have been checked in compliance with 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-AP4X-H1141/S250



Accessories

69471	Mounting bracket for threaded barrel devices; material: PA66-	
	GF	0 18.2 40 77.5 0 5.5 (2x)
69472	Fixing clamp; material: PA66-GF	20 -
		32 M6 x 30 DIN 912
6947214	Fixing clamp for threaded barrel devices, with dead-stop; ma-	M5 ❷
	terial. PAO	28 40
6950012	Mounting adapter; material: Polypropylene; sensor replacement with filled container possible (adapter remains in container during sensor replacement)	0 36 R 3/4 /5 30 M18 x 1 17 29
	6947214	Fixing clamp for threaded barrel devices, with dead-stop; material: PA6 Mounting adapter; material: Polypropylene; sensor replacement with filled container possible (adapter remains in con-