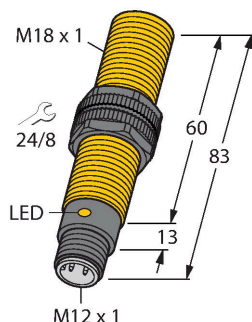


# BC5-S18-AP4X-H1141/S250

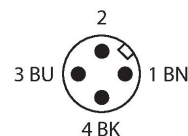
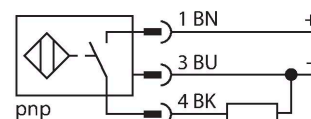
## Capacitive Sensor



### Features

- M18 × 1 threaded barrel
- Plastic, PA12-GF30
- Fixed settings
- DC 3-wire, 10...65 VDC
- NO 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.

Flush mounting may result in a change of switching behaviour.

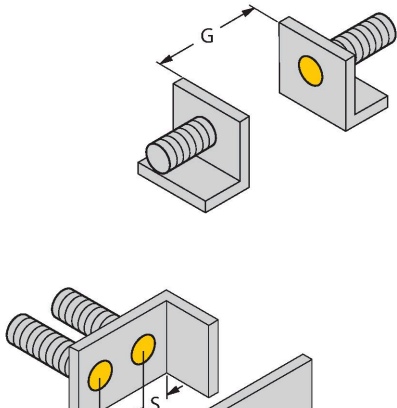
### Technical data

Type	BC5-S18-AP4X-H1141/S250
Ident. no.	2503602
Rated switching distance (flush)	5 mm
Rated switching distance (non-flush)	5 mm
Secured operating distance	$\leq (0.72 \times S_n)$
Hysteresis	2...20 %
Temperature drift	type 20 %
Repeat accuracy	$\leq 2$ % of full scale
Ambient temperature	-25...+70 °C
<b>Electrical data</b>	
Operating voltage	10...65 VDC
Residual ripple	$\leq 10$ % $U_{ss}$
DC rated operational current	$\leq 200$ mA
No-load current	$\leq 15$ mA
Residual current	$\leq 0.1$ mA
Switching frequency	0.1 kHz
Isolation test voltage	$\leq 0.5$ kV
Output function	3-wire, NO contact, PNP
Short-circuit protection	yes / Cyclic
Voltage drop at $I_o$	$\leq 1.8$ V
Wire breakage/Reverse polarity protection	yes / Complete
Approvals	UL

Technical data

Mechanical data	
Design	Threaded barrel, M18 × 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
<p>The given minimum distances have been checked against the standard switching distance.</p> <p>Should the sensitivity of the sensors be changed via potentiometer, the data sheet specifications no longer apply.</p>		

BC5-S18-AP4X-H1141/S250 12/10/2020 12-31 | technical changes reserved