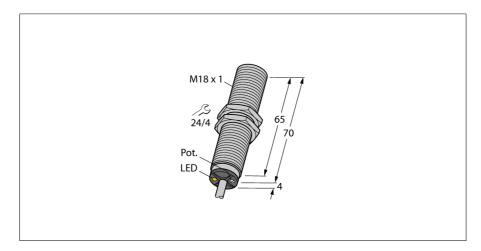


Capacitive sensor BC5-M18-RZ3X



Type designation	BC5-M18-RZ3X	
Ident-No.	2305100	
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	20250VAC	
AC rated operational current	≤ 500 mA	
Frequency	≥ 50≤ 60 Hz	
Smallest operating current I _m	≥ 5 mA	
Residual current	≤ 1.7 mA	
Switching frequency	0.02 kHz	
Isolation test voltage	≤ 1.5 kV	
Output function	2-wire, NC contact, 2-wire	
Voltage drop at I _e	≤ 7 V	
Approvale		

Approvals	UL
	ABS
	cULus

Design	Threaded barrel,M18 × 1
Dimensions	74 mm
Harrata a material	Matal Ou7s Obsessed als

Housing material Metal, CuZn, Chrome-plated Active area material Plastic, PBT-GF30-V0, yellow

 $\begin{array}{ll} \mbox{Admissible pressure on front cap} & \leq 4 \mbox{ bar} \\ \mbox{Max. tightening torque housing nut} & 25 \mbox{ Nm} \\ \mbox{Electrical connection} & \mbox{Cables} \\ \end{array}$

Cable quality Ø 5.2mm, LifYY, PVC, 2 m

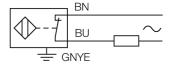
MTTF 1080 years acc. to SN 29500 (Ed. 99) 40 $^{\circ}$ C

Packaging unit

Switching state LED, Yellow

- M18 × 1 threaded barrel
- Chrome-plated brass
- Fine adjustment via potentiometer
- AC 2-wire, 20...250 VAC
- NC contact
- Cable connection

Wiring Diagram



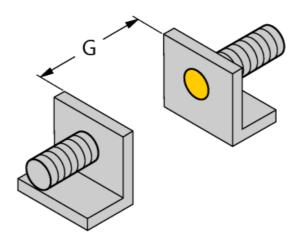
Functional principle

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

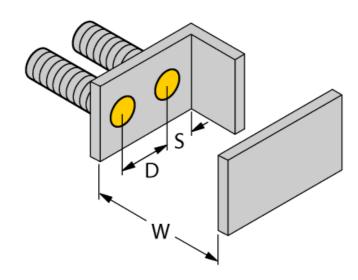


Capacitive sensor BC5-M18-RZ3X

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 BC5-M18-RZ3X

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 32 0 18 0 18 0 18
BST-18B	6947214	Fixing clamp for threaded barrel devices, with dead-stop; ma-	
		terial: PA6	20 28 40 24 24
MAP-M18	6950012	Mounting adapter; material: Polypropylene; sensor replacement with filled container possible (adapter remains in container during sensor replacement)	M18 x 1