

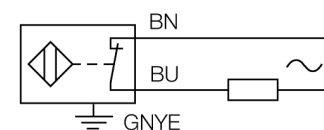
Capacitive Sensor

BC 5-M18-RZ3X-0.2M-SB 3T

**Kein Maßbild vorhanden/
No dimension drawing available**

- Threaded barrel, M18 x 1
- 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.

Ident-No (TUSA)	M2305190
Type	BC 5-M18-RZ3X-0.2M-SB 3T
ID	2305190
Rated switching distance (flush)	5 mm
Rated switching distance (non-flush)	5 mm
Secured operating distance	$\leq (0.72 \times S_n) \text{ mm}$
Hysteresis	2...20 %
Temperature drift	Typical 20 %
Repeat accuracy	$\leq 2 \%$ of full scale
Ambient temperature	-25...+70 °C
Electrical data	
Operating voltage	20...250VAC
AC rated operational current	$\leq 500 \text{ mA}$
Frequency	$\geq 50... \leq 60 \text{ Hz}$
Smallest operating current I_m	$\geq 5 \text{ mA}$
Residual current	$\leq 1.7 \text{ mA}$
Switching frequency	0.02 kHz
Oscillation frequency	According to EN 60947-5-2, 8.2.6.2 Table 9: 0.1... 2.0 MHz
Isolation test voltage	$\leq 1.5 \text{ kV}$
Output function	2-wire, NC contact, 2-wire
Voltage drop at I_L	$\leq 7 \text{ V}$
Tests/approvals	
Electrical connection	Cable
Cable quality	Ø 5.2mm, LifYY, PVC
Core cross-section	3 x 0.5 mm ² mm ²
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