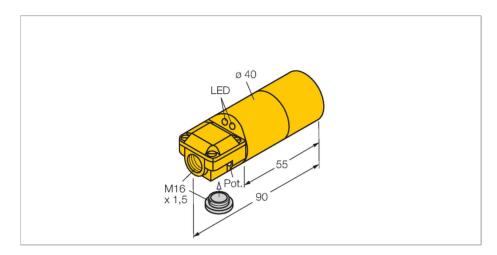


BC20-K40SR-FZ3X2 Capacitive Sensor



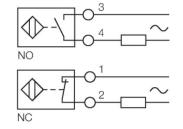
Technical data

Type	BC20-K40SR-FZ3X2
ID	23103
Rated switching distance (flush)	20 mm
Rated switching distance (non-flush)	30 mm
Secured operating distance	≤ (0.72 × Sn) mm
Hysteresis	220 %
Temperature drift	Typical 20 %
Repeat accuracy	≤ 2 % of full scale
Ambient temperature	-25+70 °C
Electrical data	
Operating voltage U _B	20250 VAC
AC rated operational current	≤ 500 mA
Frequency	≥ 50≤ 60 Hz
Smallest operating current	≥ 5 mA
Residual current	≤ 1.7 mA
Switching frequency	0.02 kHz
Oscillation frequency	According to EN 60947-5-2, 8.2.6.2 Table 9: 0.12.0 MHz
Isolation test voltage	1.5 kV
Output function	2-wire, Connection programmable, 2-wire
Voltage drop at I。	≤ 7 V
Tests/approvals	
Mechanical data	
Design	Smooth barrel, 40 mm

Features

- ■2 cable entries (axial, radial)
- ■Smooth barrel, Ø 40 mm
- Plastic, ABS
- Fine adjustment via potentiometer
- ■AC 2-wire, 20...250 VAC
- Programmable connection (NC/NO)
- ■Terminal chamber

Wiring diagram



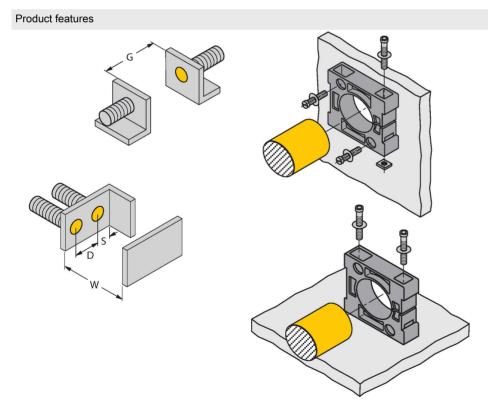
Functional principle

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

Technical data

90 mm
Plastic, ABS
ABS
Terminal chamber
≤ 2.5 mm²
55 Hz (1 mm)
30 g (11 ms)
IP67
1080 years acc. to SN 29500 (Ed. 99) 40 °C
LED, Green
LED, Red
BS40, cable gland, blanking plug

Mounting instructions



Distance D	40 mm
Distance W	60 mm
Distance S	60 mm
Distance G	120 mm
Diameter active area B	Ø 40 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.