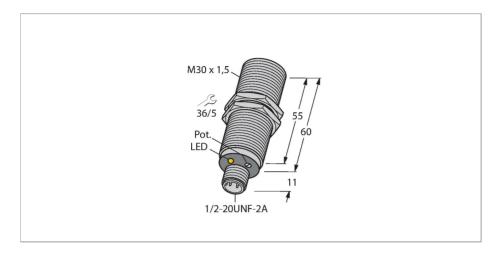


# BC10-M30K-AZ3X-B3131 Capacitive Sensor



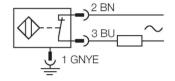
#### Technical data

Rated switching distance (flush)	Туре	BC10-M30K-AZ3X-B3131
Rated switching distance (non-flush)  Secured operating distance  ≤ (0.72 × Sn)  Hysteresis  220 %  Temperature drift  Repeat accuracy  ≤ 2 % of full scale  Ambient temperature  -25+70 °C  Electrical data  Operating voltage  AC rated operational current  Frequency  ≥ 50≤ 60 Hz  Smallest operating current  ≥ 5 mA  Residual current  ≤ 1.7 mA  Switching frequency  Oscillation frequency  According to EN 60947-5-2, 8.2.6.2 Table 9: 0.12.0 MHz  Isolation test voltage  Output function  Voltage drop at I₀  Tests/approvals  Mechanical data	ID	2503034
Secured operating distance       ≤ (0.72 × Sn)         Hysteresis       220 %         Temperature drift       Typical 20 %         Repeat accuracy       ≤ 2 % of full scale         Ambient temperature       -25+70 °C         Electrical data       Operating voltage         Operating voltage       20250 VAC         AC rated operational current       ≤ 500 mA         Frequency       ≥ 5 mA         Smallest operating 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, NO contact, 2-wire         Voltage drop at I₀       ≤ 7 V         Tests/approvals       Mechanical data	Rated switching distance (flush)	10 mm
Hysteresis 220 %  Temperature drift Typical 20 %  Repeat accuracy ≤ 2 % of full scale  Ambient temperature -25+70 °C  Electrical data  Operating voltage 20250 VAC  AC rated operational current ≤ 500 mA  Frequency ≥ 50≤ 60 Hz  Smallest operating 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, NO contact, 2-wire  Voltage drop at I₀ ≤ 7 V  Tests/approvals  Mechanical data	Rated switching distance (non-flush)	10 mm
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Voltage drop at I₀ ≤ 7 V  Tests/approvals  Mechanical data	Isolation test voltage	≤ 1.5 kV
Tests/approvals Mechanical data	Output function	2-wire, NO contact, 2-wire
Mechanical data	Voltage drop at I。	≤ 7 V
	Tests/approvals	
Design Threaded barrel, M30 x 1.5	Mechanical data	
•	Design	Threaded barrel, M30 x 1.5

## **Features**

- ■M30 × 1.5 threaded barrel
- Chrome-plated brass
- Fine adjustment via potentiometer
- ■AC 2-wire, 20...250 VAC
- ■NO contact
- ■1/2" 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.

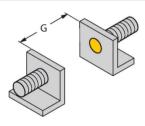


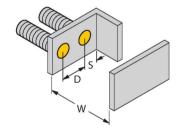
## Technical data

60 mm
Metal, CuZn, Chrome-plated
yellow
≤ 3 bar
25 Nm
Connector, 1/2"
55 Hz (1 mm)
30 g (11 ms)
IP67
1080 years acc. to SN 29500 (Ed. 99) 40 °C
Green
LED, Red

## Mounting instructions

#### Product features





Distance D	60 mm
Distance W	30 mm
Distance S	45 mm
Distance G	60 mm
Diameter active area B	Ø 30 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.