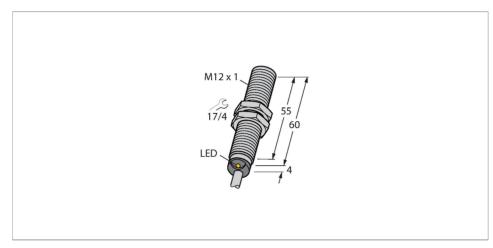


BI2U-M12E-AD4X Inductive Sensor



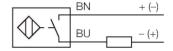
Technical data

BI2U-M12E-AD4X
4405062
2 mm
Flush
≤ (0.81 × Sn) mm
≤ 2 % of full scale
≤ ± 10 %
320 %
0+70 °C
1065 VDC
≤ 10 % U _{ss}
≤ 100 mA
≤ 0.8 mA
≤ 0.5 kV
yes / Cyclic
≤ 5 V
Complete
2-wire, NO contact, 2-wire
≥ 3 mA
0.02 kHz
0.02 kHz Threaded barrel, M12 × 1
Threaded barrel, M12 × 1

Features

- ■M12 × 1 threaded barrel
- ■Long version
- Chrome-plated brass
- Factor 1 for all metals
- Resistant to magnetic fields
- ■DC 2-wire, 10...65 VDC
- ■NO contact
- Cable connection

Wiring diagram



Functional principle

Inductive sensors are designed for wear-free and contactless detection of metal objects. uprox+ sensors have significant advantages due to their patented multi-coil system. They excel thanks to their optimum switching distances, maximum flexibility and operational reliability as well as efficient standardization.

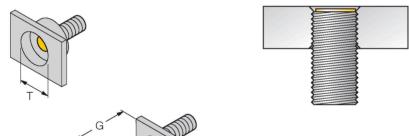


Technical data

End cap	Plastic, EPTR
Max. tightening torque of housing nut	10 Nm
Electrical connection	Cable
Cable quality	Ø 5.2 mm, LifYY, PVC, 2 m
Core cross-section	2 x 0.34 mm²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP68
MTTF	874 years acc. to SN 29500 (Ed. 99) 40 °C
Switching state	LED, Yellow

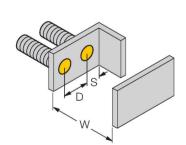
Mounting instructions

Mounting instructions/Description



Distance D	24 mm
Distance W	3 x Sn
Distance T	3 x B
Distance S	1.5 x B
Distance G	6 x Sn
Diameter active area B	Ø 12 mm

All flush mountable uprox+ threaded barrel types are also recessed mountable. Safe operation is ensured if the sensor is screwed in by half a turn.





Accessories



Quick-mount bracket with dead-stop; material: Chrome-plated brass. Male thread M16 × 1. Note: The switching distance of the proximity switches may change when using quick-mount brackets.

BST-12B M5 20 28 40 18

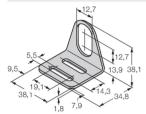
6947212

Mounting clamp for threaded barrel sensors, with dead-stop; material: PA6

MW-12

6945003

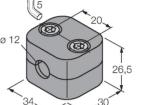
6945101



Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304)



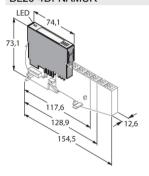
6901321



Mounting clamp for smooth and threaded barrel sensors; material: Polypropylene

BL20-4DI-NAMUR

6827212



4 digital inputs acc. to EN 60947-5-6 For NAMUR sensors, de-energized contacts or uprox®+ 2-wire DC sensors.