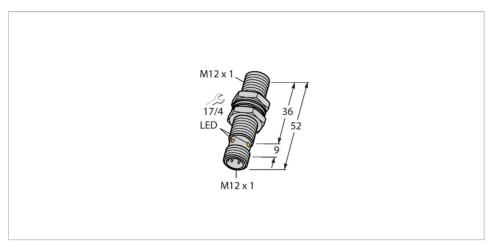


# BI2U-MT12-AP6X-H1141 Inductive Sensor



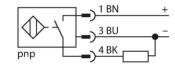
#### Technical data

BI2U-MT12-AP6X-H1141
1634239
2 mm
Flush
≤ (0.81 × Sn) mm
≤ 2 % of full scale
≤ ± 10 %
≤ ± 15 %, ≤ -25 °C v ≥ +70 °C
315 %
-30+85 °C
1030 VDC
≤ 10 % U <sub>ss</sub>
≤ 200 mA
≤ 20 mA
≤ 0.1 mA
≤ 0.5 kV
yes / Cyclic
≤ 1.8 V
yes / Complete
3-wire, NO contact, PNP
2 kHz
Threaded barrel, M12 × 1

#### **Features**

- Threaded barrel, M12 x 1
- Brass, PTFE-coated
- Factor 1 for all metals
- Protection class IP68
- Resistant to magnetic fields
- Extended temperature range
- High switching frequency
- DC 3-wire, 10...30 VDC
- NO contact, PNP output
- M12 x 1 male connector

#### Wiring diagram



## Functional principle

Inductive sensors detect metal objects contactless and wear-free. *uprox*° Factor 1 sensors have significant advantages due to their patented ferrite-coreless multicoil system. They detect all metals at the same large switching distance and are resistant to magnetic fields.

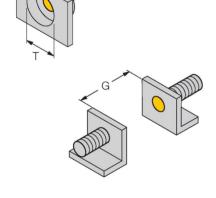


# Technical data

Housing material	Metal, CuZn, PTFE-coated
Active area material	Plastic, LCP, PTFE-coated
Max. tightening torque housing nut	7 Nm
Electrical connection	Connector, M12 × 1
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



O S S S S S S S S S S S S S S S S S S S
W

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



#### Accessories

# BST-12B M5 20 28 40 18

.30

6947212

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

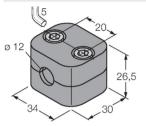


6945106

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

BSS-12

ø 12



6901321

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

### Wiring accessories

Dimension drawing

Type

RKC4T-2/TXL1001

Ident. no. 6630249

Connection cable, M12 connector, female, straight, 3-pin, cable length: 2 m, protective sheathing material: Aramid fibers, yellow; Temperature peak: 200 °C; other cable lengths and

qualities available, see www.turck.com

