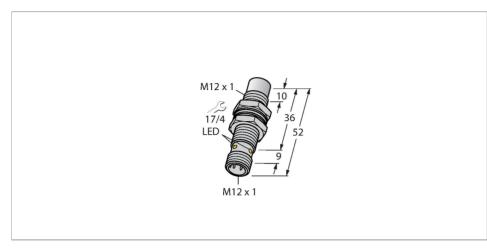


NI8U-MT12-AP6X2-H1141 **Inductive Sensor**



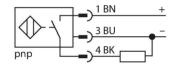
Technical data

NI8U-MT12-AP6X2-H1141
1644245
8 mm
Non-flush
≤ (0.81 × Sn) mm
≤ 2 % of full scale
≤ ± 10 %
≤ ± 15 %, ≤ -25 °C v ≥ +70 °C
315 %
-30+85 °C
1030 VDC
≤ 10 % U _{ss}
≤ 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
52 mm

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 are designed for wear-free and contactless detection of metal objects. uprox Factor 1 sensors have significant advantages due to their patented ferrite-coreless multi-coil system. They detect all metals at the same large switching distance and are resistant to magnetic fields.

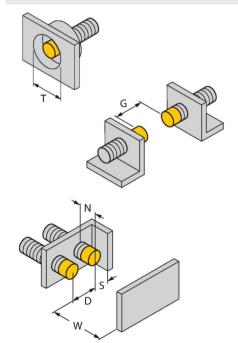


Technical data

Housing material	Metal, CuZn, PTFE-coated
Active area material	Plastic, LCP, PTFE-coated
Max. tightening torque of 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
Power-on indication	LED, Green
Switching state	LED, Yellow

Mounting instructions

Mounting instructions/Description



Distance D	48 mm
Distance W	3 x Sn
Distance T	45 mm
Distance S	1.5 x B
Distance G	6 x Sn
Distance N	2 x Sn
Diameter active area B	Ø 12 mm



Accessories

ø 12

BSS-12

BST-12B

M5

20

28

40

18

.30

6947212

6901321

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.

Ø 12 20 26,5 34 30

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