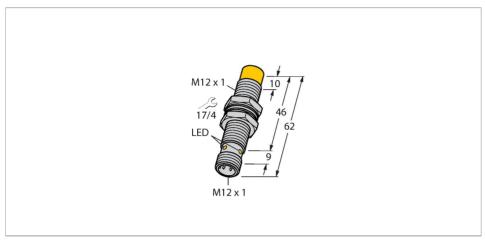


# NI8U-EM12E-AP6X-H1141 **Inductive Sensor**



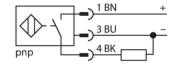
## Technical data

NI8U-EM12E-AP6X-H1141
1644342
8 mm
Non-flush, partially embeddable
≤ (0.81 × Sn) mm
≤ 2 % of full scale
≤ ± 10 %
≤ ± 20 %, ≤ -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
- Stainless steel, 1.4301
- Factor 1 for all metals
- Protection class IP68
- Resistant to magnetic fields
- ■Extended temperature range
- High switching frequency
- Auto-compensation protects against predamping
- ■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.

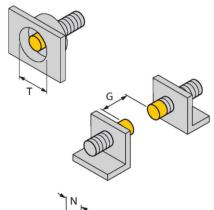


# Technical data

Housing material	Stainless steel, 1.4301 (AISI 304)
Active area material	Plastic, PA12-GF30
Max. tightening torque of housing nut	10 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

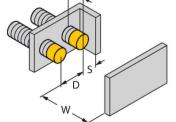




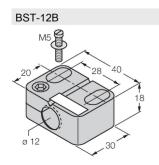
Distance D	36 mm
Distance W	24 mm
Distance T	45 mm
Distance S	18 mm
Distance G	48 mm
Distance N	16 mm
Diameter active area B	Ø 12 mm

1-side flush mounting possible:

1-side flush mounting: Sr = 6 mm



# Accessories



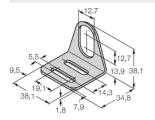
6947212 Mounting clamp for threaded barrel sensors, with dead-stop; material: PA6



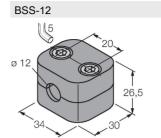
Quick-mount bracket with dead-stop; material: Chrome-plated brass. Male thread M16 × 1. Note: The switching distance of the proximity switches may change when using quick-mount brackets.

6945101

6901321



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



Mounting clamp for smooth and threaded barrel sensors; material:

Polypropylene