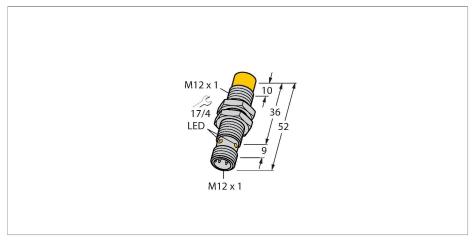


NI8U-M12-AP6X-H1141 Inductive Sensor





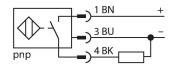
Technical data

4140
n
-flush
.81 × Sn) mm
% of full scale
0 %
15 %, ≤ -25 °C v ≥ +70 °C
15 %
.30 VDC
% U _{ss}
0 mA
mA
1 mA
5 kV
/ Cyclic
3 V
/ Complete
re, NO contact, PNP
mT
mT _{ss}
lz

Features

- ■M12 × 1 threaded barrel
- ■Chrome-plated brass
- 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 sentest DND systems
- ■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.

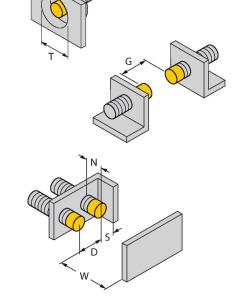


Technical data

Mechanical data	
Design	Threaded barrel, M12 × 1
Dimensions	52 mm
Housing material	Metal, CuZn, Chrome-plated
Active area material	Plastic, LCP
Max. tightening torque of housing nut	10 Nm
Electrical connection	Connector, M12 × 1
Environmental conditions	
Ambient temperature	-30+85 °C
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	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

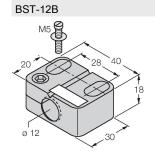


Accessories

QM-12 ر 22/4 ø 12

6945101

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.



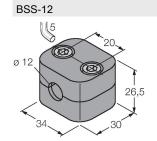
6947212

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

MW-12

6945003

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

Accessories

Dimension drawing

Type

RKC4T-2/TEL

ID

6625010

Connection cable, female M12, straight, 3-pin, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com

