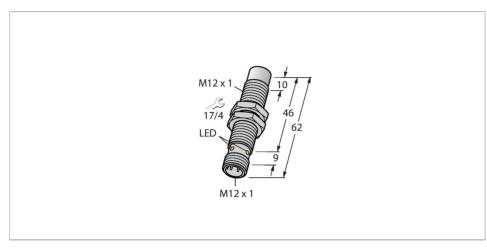


NI8U-MT12E-AP6X2-H1141 **Inductive Sensor**



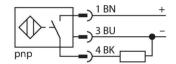
Technical data

Туре	NI8U-MT12E-AP6X2-H1141
ID	1644247
	1044247
General data	
Rated switching distance	8 mm
Mounting conditions	Non-flush
Secured operating distance	≤ (0.81 × Sn) mm
Repeat accuracy	≤ 2 % of full scale
	≤ ± 15 %, ≤ -25 °C v ≥ +70 °C
Hysteresis	315 %
Electrical data	
Operating voltage U _B	1030 VDC
Ripple U _{ss}	≤ 10 % U _{Bmax}
DC rated operating current I _e	≤ 200 mA
No-load current	≤ 25 mA
Residual current	≤ 0.1 mA
Isolation test voltage	0.5 kV
Short-circuit protection	yes/Cyclic
Voltage drop at I。	≤ 1.8 V
Wire break/reverse polarity protection	yes/Complete
Output function	3-wire, NO contact, PNP
DC field stability	300 mT
AC field stability	300 mT _{ss}
Insulation class	
Switching frequency	1 kHz

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.

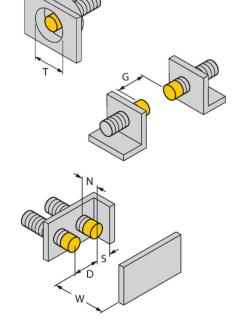


Technical data

TI 1.11 1.1440 4
Threaded barrel, M12 x 1
62 mm
Metal, CuZn, PTFE-coated
Plastic, LCP, PTFE-coated
7 Nm
Connector, M12 × 1
-30+85 °C
55 Hz (1 mm)
30 g (11 ms)
IP68
874 years acc. to SN 29500 (Ed. 99) 40 °C
LED, Green
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

BST-12B 6947212

M5 28 40 18 18 18 18

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

QMT-12

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 6901321

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

