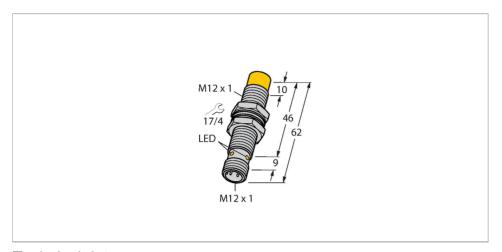


NI8U-M12E-VN4X-H1141 Inductive Sensor





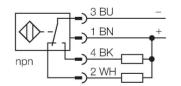
Technical data

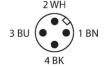
Туре	NI8U-M12E-VN4X-H1141
ID	1580552
General data	
Rated switching distance	8 mm
Mounting conditions	Non-flush
Secured operating distance	≤ (0.81 × Sn) mm
Repeat accuracy	≤ 2 % of full scale
Temperature drift	≤ ±10 %
	≤ ± 15 %, ≤ -25 °C v ≥ +70 °C
Hysteresis	315 %
Electrical data	
Operating voltage U _B	1065 VDC
Ripple U _{ss}	≤ 10 % U _{Bmax}
DC rated operating current I _e	≤ 200 mA
No-load current	≤ 15 mA
Residual current	≤ 0.1 mA
Isolation test voltage	0.5 kV
Short-circuit protection	yes/Cyclic
Voltage drop at I _e	≤ 1.8 V
Wire break/reverse polarity protection	yes/Complete
Output function	4-wire, Complementary contact, NPN
DC field stability	300 mT
AC field stability	300 mT _{ss}
Insulation class	

Features

- ■M12 × 1 threaded barrel
- Long version
- Chrome-plated brass
- Factor 1 for all metals
- ■Protection class IP68
- Resistant to magnetic fields
- ■Extended temperature range
- High switching frequency
- ■DC 4-wire, 10...65 VDC
- Changeover contact, NPN 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 ferritecoreless multi-coil system. They detect all



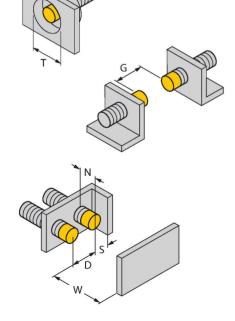
Technical data

2 kHz Switching frequency Mechanical data Design Threaded barrel, M12 x 1 **Dimensions** 62 mm Housing material Metal, CuZn, Chrome-plated Plastic, PBT Active area material 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) IP68 Protection class MTTF 874 years acc. to SN 29500 (Ed. 99) 40 LED, Yellow Switching state

metals at the same large switching distance and are resistant to magnetic fields.

Mounting instructions

Mounting instructions/Description



Distance D	48 mm
Distance W	3 x Sn
Distance T	4 x B
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

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

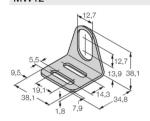
6947212

QM-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.

MW12 6945003

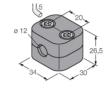


Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304)

BSS-12

6901321

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



Wiring accessories

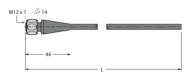
ID Dimension drawing Type

RKH4.4-2/TFE

6934473

Connection cable, M12 female connector, straight, 4-pin, stainless steel coupling nut, cable length: 2 m, jacket material: PVC, gray; temperature

range: -25...+80 °C

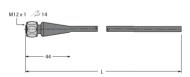


RKH4.4-2/TFG

6933086

Connection cable, M12 female connector, straight, 4-pin, stainless steel coupling nut, cable length: 2 m, jacket material: TPE, gray; temperature

range: -40...+105 °C



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