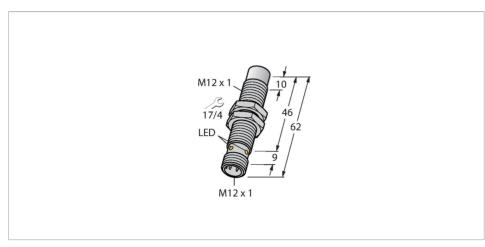


# NI8U-MT12E-VP4X-H1141 Inductive Sensor



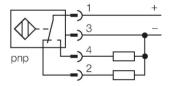
#### Technical data

Туре	NI8U-MT12E-VP4X-H1141	
ldent. no.	1580455	
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 %	
Ambient temperature	-30+85 °C	
Operating voltage	1065 VDC	
Residual ripple	≤ 10 % U <sub>ss</sub>	
DC rated operational current	≤ 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.	≤ 1.8 V	
Wire breakage/Reverse polarity protection	yes / Complete	
Output function	4-wire, Complementary contact, PNP	
Insulation class		
Switching frequency	2 kHz	
Design	Threaded barrel, M12 × 1	
Dimensions	62 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 4-wire, 10...65 VDC
- Changeover contact, PNP output
- M12 x 1 male connector

### Wiring diagram



# Functional principle

Inductive sensors detect metal objects contactless and wear-free. *uprox*\* Factor 1 sensors have significant advantages due to their patented ferrite-coreless multicoil system. They detect all metals at the same large switching distance and are resistant to magnetic fields.

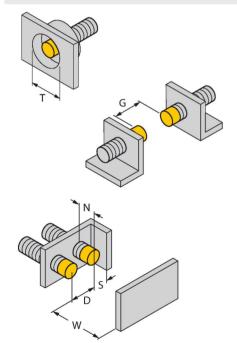


## Technical data

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

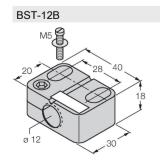
# Mounting instructions

### 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

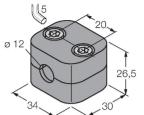


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Mounting clamp for threaded barrel sensors, with dead-stop; material: PA6



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.

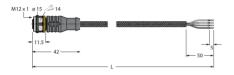
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Mounting clamp for smooth and threaded barrel sensors; material: Polypropylene

# Wiring accessories

Dimension drawing	Type	Ident. no.	
	RKC4.4T-2/TXL1001	6628825	Connection cable, I



Connection cable, M12 connector, female, straight, 4-pin, cable length: 2 m, protective sheathing material: Aramid fibers, yellow; Temperature peak: 200 °C; other cable lengths and qualities available, see www.turck.com