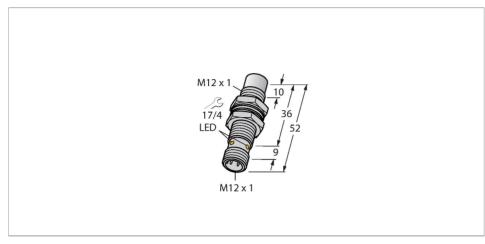


NI10U-MT12-AP6X-H1141 Inductive Sensor - With Extended Switching Distance



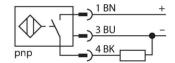
Technical data

Type	NI10U-MT12-AP6X-H1141
ID	1634810
General data	
Rated switching distance	10 mm
Mounting conditions	Non-flush
Secured operating distance	≤ (0.81 × Sn) mm
Repeat accuracy	≤ 2 % of full scale
Temperature drift	≤±10 %
Hysteresis	315 %
Electrical data	
Operating voltage U _B	1030 VDC
Ripple U _{ss}	≤ 10 % U _{Bmax}
DC rated operating current I _o	≤ 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 _e	≤ 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
- Large switching distance
- ■Integrated protection against predamping
- Little metal-free spaces
- ■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+ sensors have significant advantages due to their patented multi-coil system. They excel thanks to their optimum switching distances, maximum flexibility and operational reliability as well as efficient standardization.

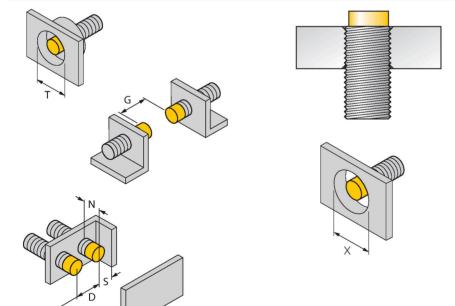


Technical data

Mechanical data	
Design	Threaded barrel, M12 x 1
Dimensions	52 mm
Housing material	Metal, CuZn, PTFE-coated
Active area material	Plastic, LCP, PTFE-coated
Max. tightening torque of housing nut	7 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		
Distance D	48 mm	
Distance W	3 x Sn	_
Distance T	45 mm	_
Distance S	1.5 x B	- Srve
Distance G	6 x Sn	rese
Distance N	2 x Sn	- naes
Diameter active area B	Ø 12 mm	cal cha
edge of the barrel. In the sensor operates s switching distance.	e screwed to the upper this mounting position, afely with a 20 % reduced aperture plate a distance	N110U-MT12-AP6X-H1141 02/21/2025 13-16 technical changes reserved

Accessories

BST-12B 6947212

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

QMT-12

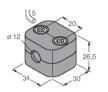
6945106

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



Wiring accessories

 Dimension drawing
 Type
 ID

 RKC4T-2/TXL1001
 6630249



Connection cable, M12 female connector, straight, 3-pin, cable length: 2 m, protective jacket material: aramid fibers, yellow; temperature peak: 200 °C