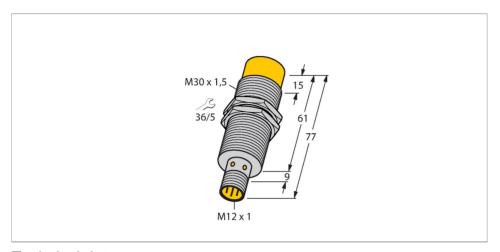


NI30U-M30E-AP6X-H1141 Inductive Sensor – With Extended Switching Distance



Province.

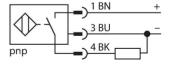
Technical data

Туре	NI30U-M30E-AP6X-H1141
ID	1644756
General data	
Rated switching distance	30 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	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。	≤ 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	

Features

- ■Threaded barrel, M30 x 1.5
- Long version
- ■Chrome-plated brass
- 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



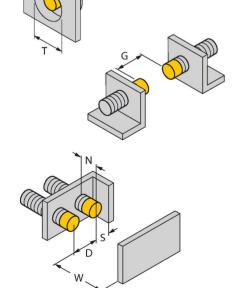
Technical data

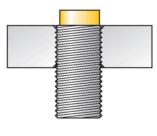
Switching frequency 1 kHz Mechanical data Design Threaded barrel, M30 x 1.5 **Dimensions** 77 mm Housing material Metal, CuZn, Chrome-plated Plastic, LCP Active area material Max. tightening torque of housing nut 75 Nm Electrical connection Connector, M12 × 1 **Environmental conditions** -30...+85 °C Ambient temperature 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 Switching state LED, Yellow

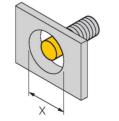
excel thanks to their optimum switching distances, maximum flexibility and operational reliability as well as efficient standardization.

Mounting instructions

Mounting instructions/Description







Distance D	135 mm
Distance W	3 x Sn
Distance T	3 x B
Distance S	1.5 x B
Distance G	6 x Sn
Distance N	2 x Sn
Diameter active area B	Ø 30 mm

All non-flush mountable uprox®+ threaded barrel sensors can be screwed to the upper edge of the barrel. In this mounting position, the sensor operates safely with a 20 % reduced switching distance.

When installed in an aperture plate, a distance of X = 140 mm must be observed.

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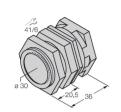


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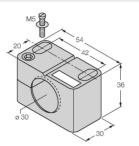
Accessories

QM-30 6945103



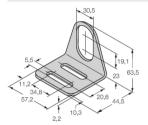
Quick-mount bracket with dead-stop; material: Chrome-plated brass. Male thread M36 × 1.5. Note: The switching distance of the proximity switches may change when using quick-mount brackets.

BST-30B

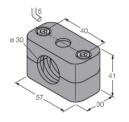


Mounting clamp for threaded barrel sensors, with dead-stop; material: PA6

MW30 6945005



Mounting bracket for threaded barrel sensors; material: Stainless steel A2 1.4301 (AISI 304) BSS-30



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