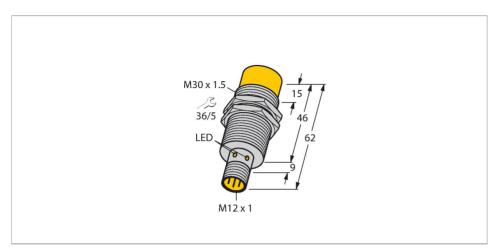


NI20U-EM30-AN6X2-H1141/S1589 Inductive Sensor - With WeldGuard™ Coating



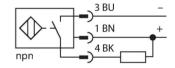
Technical data

Туре	NI20U-EM30-AN6X2-H1141/S1589
ID	1646191
Special version	S1589 Corresponds to:With weldguard coating
General data	
Rated switching distance	20 mm
Mounting conditions	Non-flush
Secured operating distance	≤ (0.81 × Sn) mm
Repeat accuracy	≤ 2 % of full scale
	\leq ± 20 %, \leq -25 °C v \geq +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 _o	≤ 1.8 V
Wire break/reverse polarity protection	yes/Complete
Output function	3-wire, NO contact, NPN
DC field stability	300 mT
AC field stability	300 mT _{ss}
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Features

- ■M30 × 1.5 threaded tube
- Stainless steel, 1.4301
- Factor 1 for all metals
- Protection class IP68
- Resistant to magnetic fields
- ■Extended temperature range
- High switching frequency
- Auto-compensation protects against predamping
- ■DC 3-wire, 10...30 VDC
- ■NO 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 ferrite-coreless multi-coil system. They detect all metals at the same large switching distance and are resistant to magnetic fields.

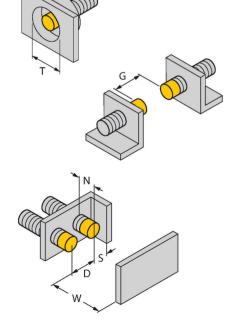


Technical data

1 kHz
Threaded barrel, M30 x 1.5
62 mm
Stainless steel, 1.4301 (AISI 304)
Plastic, PBT
75 Nm
Connector, M12 × 1
-30+85 °C
55 Hz (1 mm)
00 112 (1 11111)
30 g (11 ms)
30 g (11 ms)
30 g (11 ms) IP68 874 years acc. to SN 29500 (Ed. 99) 40

Mounting instructions

Mounting instructions/Description



Distance D	3 x B
Distance W	3 x Sn
Distance T	3 x B
Distance S	0.5 × B
Distance G	6 x Sn
Distance N	2 x Sn
Diameter active area B	Ø 30 mm

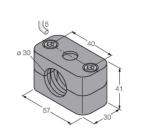


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Accessories

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