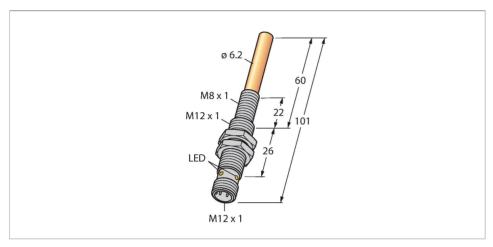


NIMFE-EM12/6.2L101-UP6X-H1141/S1182 Magnetic field sensor - With TIN Coating For Detection of Ferromagnetic Parts



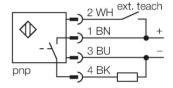
Technical data

Туре	NIMFE-EM12/6.2L101-UP6X-H1141/S1182
Ident. no.	1600612
Special version	S1182 corresponds to: TIN coating
Ambient temperature	-25+70 °C
Operating voltage	1030 VDC
Residual ripple	≤ 10 % U _{ss}
DC rated operational current	≤ 100 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 V
Wire breakage/Reverse polarity protection	yes / Complete
Output function	3-wire, Connection programmable, PNP
Design	Threaded barrel, M12 \times 1
Dimensions	101 mm
Housing material	Stainless steel, V2A (1.4301)
Active area material	Stainless steel, V2A (1.4301), TIN coating
Max. tightening torque housing nut	10 Nm
Electrical connection	Connector, M12 × 1
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)

Features

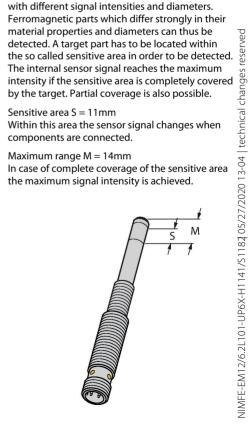
- Threaded barrel, M12 x 1
- Stainless steel, 1.4301
- DC 3-wire, 10...30 VDC
- NC/NO parametrizable with teach adapter VB2-
- M12 x 1 male connector

Wiring diagram



Functional principle

The weld sensors are available in different versions, with different signal intensities and diameters. Ferromagnetic parts which differ strongly in their

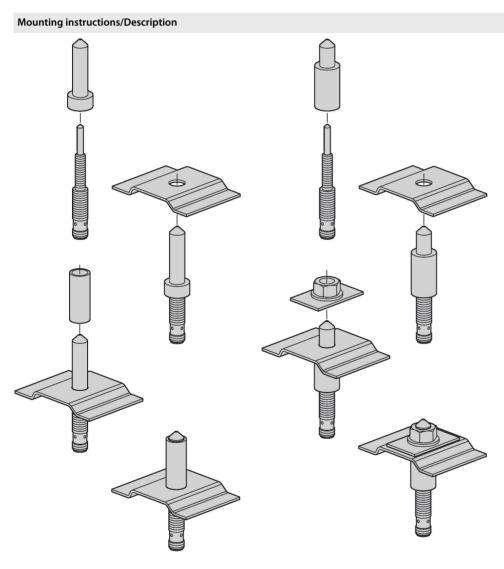




Technical data

Protection class	IP67
MTTF	874 years acc. to SN 29500 (Ed. 99) 40 °C
Power-on indication	LED, Green
Switching state	LED, Yellow

Mounting instructions



The magnetic field sensor is especially suited for the detection of welding nuts as well as spacer or reinforcing sleeves. The parts to be detected must always consist of ferromagnetic material, so that a proper function can be guaranteed. Most applications need center bolts to tack the welding nuts and reinforcing sleeves in place and thus provide mechanical protection of the sensors. Theses bolts have to be made of nonferromagnetic material, like stainless steel for example. Center bolts are not available at Turck, as these have to be individually produced for and adjusted to the correspondent application.

The welding nut sensor easily detects ferritic targets with diameters between 10 mm and 20 mm.



Accessories

