

NIMFE-EM12/4.0L61-UP6X-0.3XYE-RS4/S1182

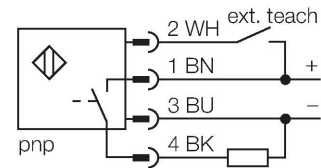
Magnetic field sensor – With TIN Coating

For Detection of Ferromagnetic Parts

Features

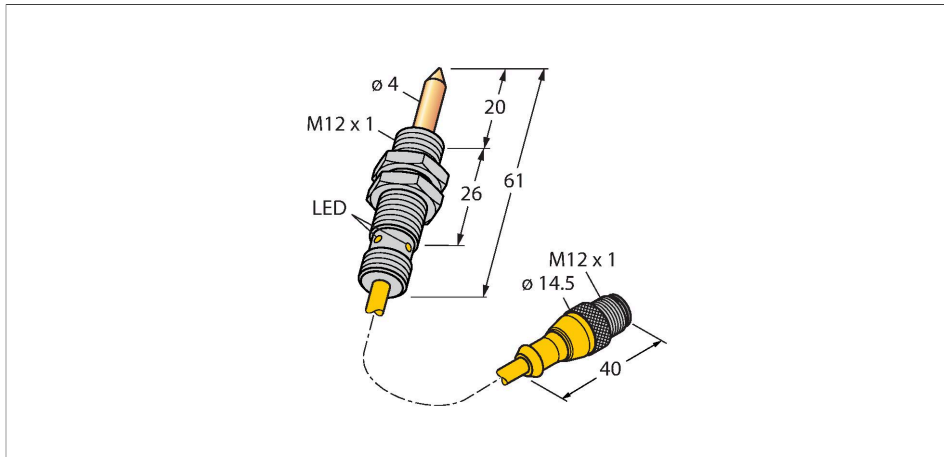
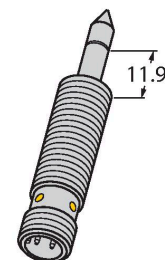
- Threaded barrel, M12 x 1
- Stainless steel, 1.4301
- DC 3-wire, 10...30 VDC
- NC/NO parametrizable with teach adapter VB2-SP1
- Cable with male end M12 x 1

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 material properties and diameters can thus be detected. A component to be detected must be located within the so-called optimal sensitive area in order to be detected. This optimal sensitive area has a width of 0.5 mm and is laser-engraved on the tip of the probe, 11.9 mm above of the M12 thread.



Technical data

Type	NIMFE-EM12/4.0L61-UP6X-0.3XYE-RS4/S1182
Ident. no.	1600623
Remark to product	Optimized for the detection of weld nuts of the size of M5 to M10
Special version	S1182 = TIN coating
Ambient temperature	-25...+70 °C
Operating voltage	10...30 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	≤ 1 V
Wire breakage/Reverse polarity protection	yes / Complete
Output function	3-wire, Connection programmable, PNP
Design	Threaded barrel, M12 x 1
Dimensions	61 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	Cable with connector, M12 x 1
Cable quality	Ø 5.2 mm, Yellow, LifY33Y, TPE, 0.3 m

Technical data

Core cross-section	4 x 0.34 mm ²
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP67
MTTF	874 years acc. to SN 29500 (Ed. 99) 40 °C
Power-on indication	LED, Green
Switching state	LED, Yellow

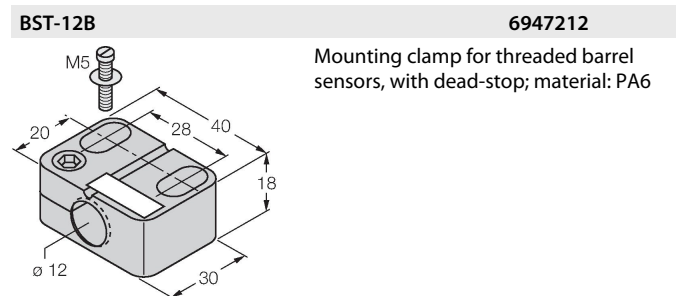
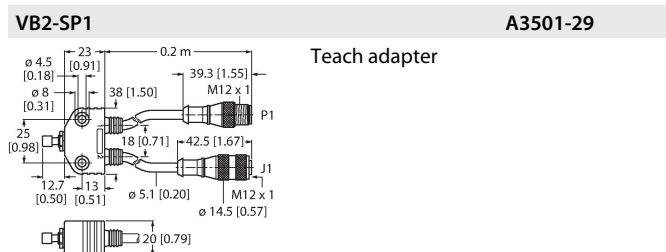
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Accessories

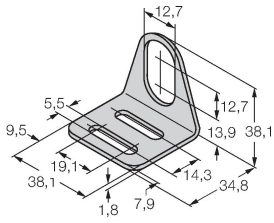


NIMFE-EM12/4.0L61-UP6X-0.3XXYE-RS4/S 1184 11/19/2019 16-46 technical changes reserved

MW12

6945003

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



BSS-12

6901321

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

