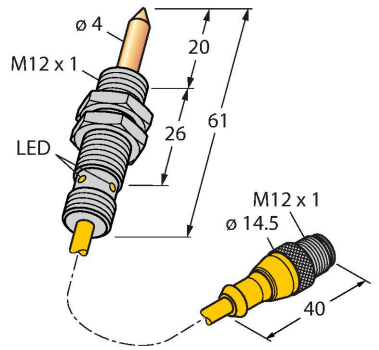
NIMFE-EM12/4.0L61-UN6X-0.3XYE-RS4/S1182
Magnetic field sensor – With TIN Coating
For Detection of Ferromagnetic Parts



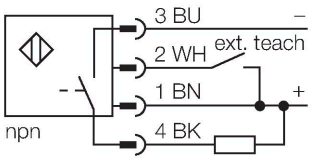
Technical data

Type	NIMFE-EM12/4.0L61-UN6X-0.3XYE-RS4/S1182
Ident. no.	1600624
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, NPN
Design	Threaded barrel,M12 × 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 × 1
Cable quality	Ø 5.2 mm, Yellow, LifY33Y, TPE, 0.3 m

Features

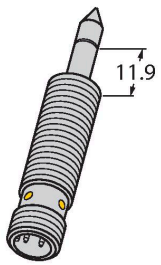
- Threaded barrel, M12 x 1
- Stainless steel, 1.4301
- DC 3-wire, 10…30 VDC
- NC/NO parametrizable with teach adapter VB2-SP1
- Cable with male end M12 x 1

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.



NIMFE-EM12/4.0L61-UN6X-0.3XYE-RS4/S1182 11/19/2019 16-40 | technical changes reserved

Technical data

Core cross-section	4 x 0.34 mm²
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

Application examples	\Graphics \Pic3\00343692_0en343687_0.eps	\Graphics 6924_00343687_0.eps	\TextModule T22_0en2850.xml
parametrized via teach adapter	\Graphics \Pic5\00343696_0en5217_0.eps	\Graphics 6996_00343687_0.eps	\TextModule T22_0en2851.xml

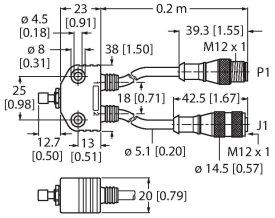
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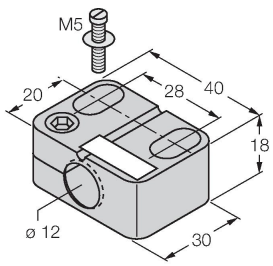
Accessories

VB2-SP1 **A3501-29**



Teach adapter

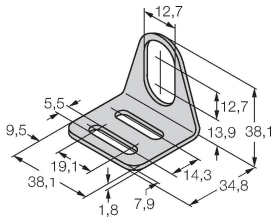
BST-12B **6947212**



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

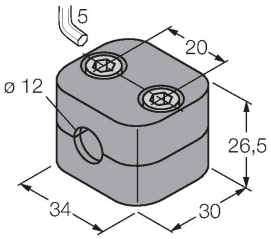
NIMFE-EM12 4.0L61-UN6X-0.3XYE-RS4/S1182 | 11/19/2019 16-42 | technical changes reserved

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

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