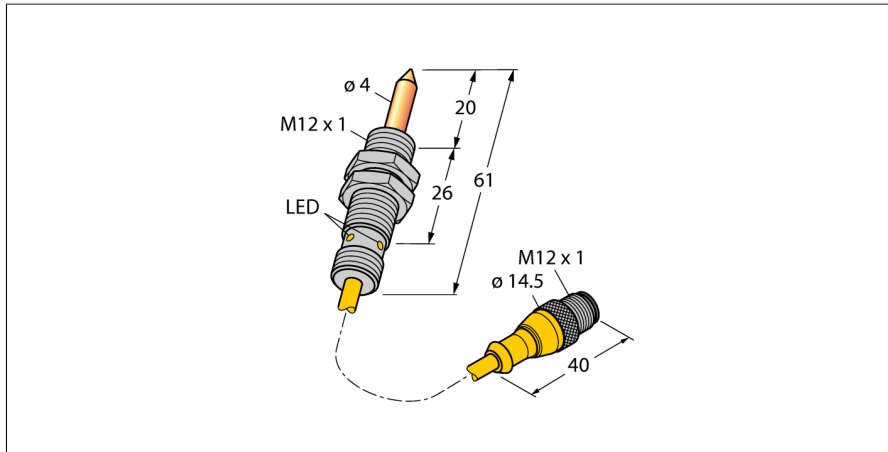


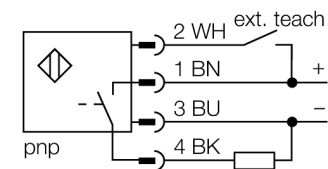
Magnetic Field Sensor With TIN Coating For Detection of Ferromagnetic Parts NIMFE-EM12/4.0L61-UP6X-0.3XYE-RS4/S1182



Type	NIMFE-EM12/4.0L61-UP6X-0.3XYE-RS4/S1182
ID	1600623
Remark to product	Optimized for the detection of weld nuts of the size of M5 to M10
Special version	S1182 Corresponds to: TIN coating

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

Wiring Diagram

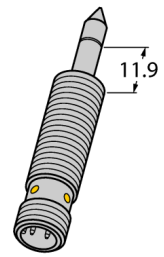


The weld sensors are available in different versions, with different signal intensities and diameters. Ferromagnetic parts which differ strongly in their material properties and diameters can thus be detected. A component to be detected must be located within the so-called optimal sensitive area in order 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.

General data	
Electrical data	
Operating voltage U_s	10...30 VDC
Ripple U_{rs}	$\leq 10\% U_{Bmax}$
DC rated operating current I_s	$\leq 100\text{ mA}$
Residual current	$\leq 0.1\text{ mA}$
Isolation test voltage	0.5 kV
Short-circuit protection	yes/Cyclic
Voltage drop at I_s	$\leq 1\text{ V}$
Wire break/reverse polarity protection	yes/Complete
Output function	3-wire, Connection programmable, PNP
Mechanical data	
Design	Threaded barrel, M12 x 1
Dimensions	61 mm
Housing material	Stainless steel, 1.4301 (AISI 304)
Active area material	Stainless steel, 1.4301 (AISI 304), TIN coating
Max. tightening torque of housing nut	10 Nm
Electrical connection	Cable with connector, M12 x 1
Cable quality	Ø 5.2 mm, Yellow, LifY33Y, TPE, 0.3 m
Core cross-section	4 x 0.34 mm ²
Environmental conditions	
Ambient temperature	-25...+70 °C
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



Accessories

[illegible]