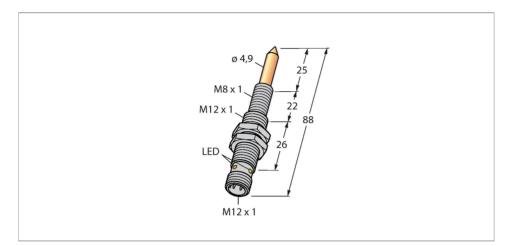


NIMFE-EM12/4.9L88-UP6X-H1141/S1182 Magnetic Field Sensor – For Detection of M6 Weld Nuts For Detection of Ferromagnetic Parts



Technical data

Туре	NIMFE-EM12/4.9L88-UP6X-H1141/S1182
ID	1600616
Special version	S1182 Corresponds to:TIN coating
General data	
Electrical data	
Operating voltage U _B	1030 VDC
	≤ 10 % U _{Bmax}
DC rated operating current I _e	≤ 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 break/reverse polarity protection	yes/Complete
Output function	3-wire, Connection programmable, PNP
Mechanical data	
Design	Threaded barrel, M12 x 1
Dimensions	88 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	Connector, M12 × 1

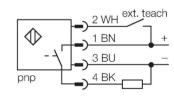


Features

Threaded barrel, M12 x 1

- Stainless steel, 1.4301
- DC 3-wire, 10...30 VDC
- NC/NO parametrizable with teach adapter VB2-SP1
- 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 material properties and diameters can thus be detected. A target part has to be located within the so called sensitive area in order to be detected. The internal sensor signal reaches the maximum intensity if the sensitive area is completely covered by the target. Partial coverage is also possible.

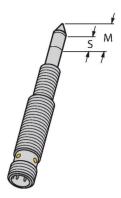
Sensitive area S = 9 mm Within this area the sensor signal changes when components are connected.

Maximum range M = 13 mm In case of complete coverage of the sensitive area the maximum signal intensity is achieved.



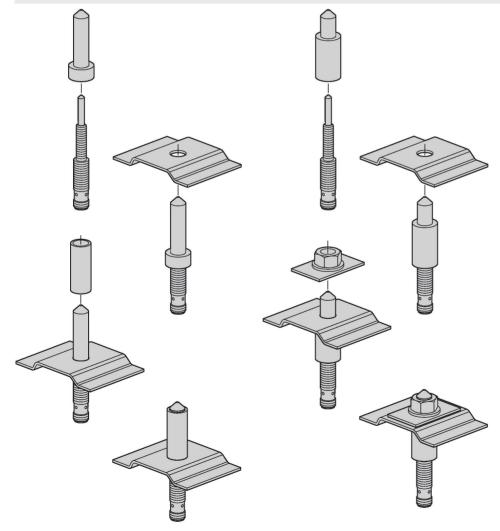
Technical data

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



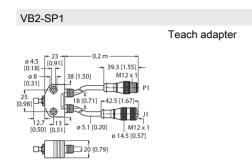
Mounting instructions

Mounting instructions/Description





Accessories



A3501-29

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