
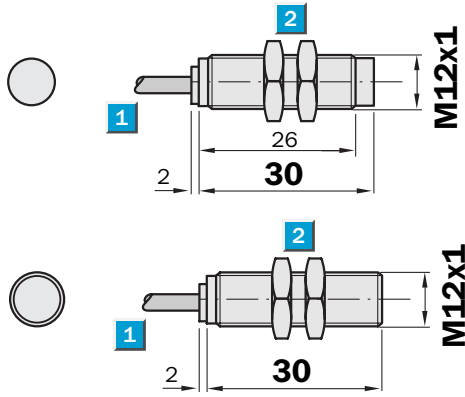


# Inductive sensor, IM12, NAMUR

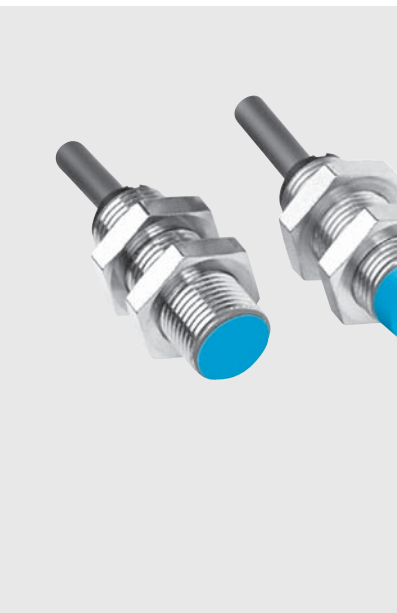
	<b>Sensing range</b>
	<b>2 / 4</b>
<b>Inductive sensor</b>	

- NAMUR to EN 60 947-5-6
- Robust brass housing, nickel-plated, with fine thread M12 x 1 mm
- Classification PTB 03 ATEX 2037  
Ex II 2 G EEx ia IIC T6

## Dimensional drawing

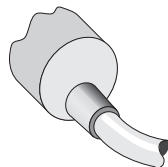


- 1** Connection
- 2** Fastening nuts (2 x); width across 17, metal

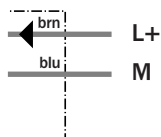


## Connection type

- IM12-02B-N-ZWO
- IM12-04N-N-ZWO



2 x 0.34 mm<sup>2</sup>



## See chapter Accessories

- Mounting systems
- Switching units

Technical specifications		IM12-	02B-N-ZWO	04N-N-ZWO									
<b>Sensing range S<sub>n</sub></b>	2 mm												
	4 mm												
<b>Electrical configuration</b>	NAMUR												
<b>Supply voltage V<sub>s</sub></b>	DC 5 ... 25 V												
Nominal voltage V <sub>n</sub>	DC 8.2 V												
Power consumption, attenuated	≤ 1 mA												
Power consumption, unattenuated	≥ 2.2 mA												
Internal capacitance	≤ 230 nF												
Internal inductance	≤ 380 μH												
Cable resistance	≤ 50 Ohm												
Temperature drift, of s <sub>r</sub>	± 10 %												
EMC	According to EN 60 947-5-6												
<b>Switching output</b>	Control current dependent on switching state <sup>1)</sup>												
<b>Output function</b>	NAMUR												
<b>Installation</b>	Flush												
	Non-flush												
<b>Connection type</b>	Cable, PVC, 2 m												
<b>Enclosure rating</b>	IP 67 <sup>2)</sup>												
Max. switching frequency	1,200 Hz												
	1,500 Hz												
Dimensions	M12 x 1 <sup>3)</sup>												
<b>Short-circuit protected</b>	✓												
<b>Reverse polarity protected</b>	✓												
Shock/vibration stress	30 g, 11 ms/10 ... 55 Hz, 1 mm												
Ambient temperature T <sub>a</sub>	-25 °C ... +70 °C												
<b>Housing material</b>	Brass nickel-plated, plastic												
Tightening torque	7 Nm												

<sup>1)</sup> according to NAMUR EN 60947-5-6

<sup>2)</sup> according to EN 60529

<sup>3)</sup> Thread diameter x pitch (mm)

**Max. data for connecting Isolating unit EN 2 EX**

or other approved isolating amplifier:

<b>Short circuit current I<sub>Kmax</sub></b>	50 mA
<b>No load voltage U<sub>0</sub></b>	16 V
<b>Power loss P<sub>max</sub></b>	75 mW

Order information	
Type	Order no.
IM12-02B-N-ZWO	6 021 124
IM12-04N-N-ZWO	6 021 125