

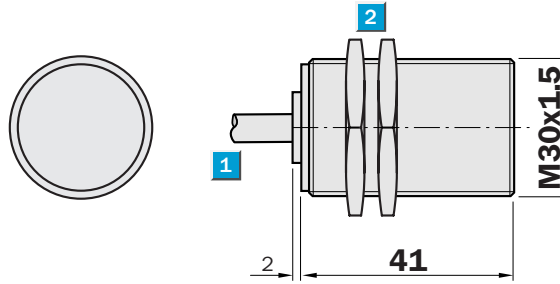
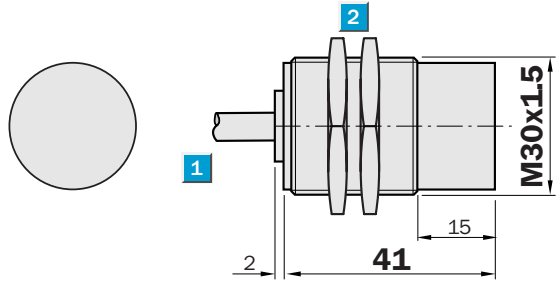
# Inductive sensor, IM 30, NAMUR

**Sensing range**  
10 / 15 mm

Inductive sensor

- NAMUR to EN 60 947-5-6
  - High switching frequency
  - Robust brass housing, nickel-plated, with fine thread M30 x 1.5 mm
  - Classification PTB 03 ATEX 2037
- ⊕ II 2 G EEx ia IIC T6

## Dimensional drawing

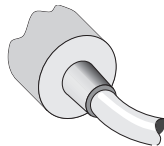


- 1 Connection
- 2 Fastening nuts (2 x); width across 36, metal

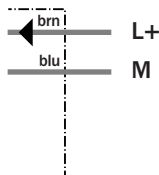


## Connection type

- IM30-10B-N-ZWO
- IM30-15N-N-ZWO



2 x 0.5 mm<sup>2</sup>



## See chapter Accessories

- Mounting systems
- Switching units

Technical data		IM30-10B-	N-ZW0	N-ZW0										
<b>Sensing range S<sub>n</sub></b>	15 mm													
	10 mm													
<b>Electrical configuration</b>	NAMUR													
<b>Supply voltage V<sub>s</sub></b>	DC 5 ... 25 V													
Rated voltage V <sub>n</sub>	DC 8.2 V													
Power consumption, attenuated	≤ 1 mA													
Power consumption, unattenuated	≥ 2.2 mA													
Internal capacitance	≤ 240 nF													
	≤ 230 nF													
Internal inductance	≤ 100 µH													
	≤ 130 µH													
Cable resistance	≤ 50 Ohm													
Temperature drift, of s <sub>r</sub>	± 10 %													
EMC	According to EN 60 947-5-2													
<b>Switching output</b>	Control current dependent on switching <sup>1)</sup>													
<b>Output function</b>	NAMUR													
<b>Installation</b>	Non-flush													
	Flush													
<b>Connection types</b>	Cable, PVC, 2 m													
Enclosure rating	IP 67 <sup>2)</sup>													
Max. switching frequency	200 Hz													
	450 Hz													
Dimensions	M30 x 1.5 <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													
Housing material	Brass nickel-plated, plastic													
Tightening material	50 Nm													

<sup>1)</sup> according to EN 60 947-5-6

<sup>2)</sup> according to EN 60 529

<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.
IM30-10B-N-ZW0	6 021 128
IM30-15N-N-ZW0	6 021 129