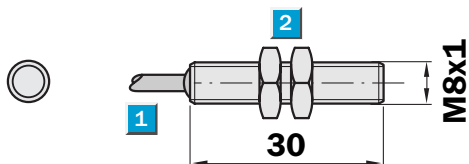


**Sensing range**  
**1 mm**

Inductive sensor

- NAMUR to EN 60 947-5-6
  - High switching frequency
  - Robust brass housing, nickel-plated, with fine thread M8 x 1 mm
  - Enclosure rating IP 67
  - Classification PTB 03 ATEX 2037
- ⊕ II 2G EEx ia IIC T6

### Dimensional drawing

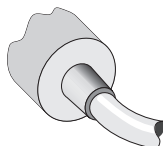


- 1 Connection
- 2 Fastening nuts (2 x); width across 13, metal

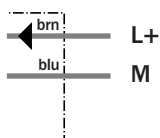


### Connection type

IM08-01B-N-ZW0



2 x 0.14 mm<sup>2</sup>



See chapter Accessories

Switching units

Technical specifications		IM08-	01B-N-ZW0										
<b>Sensing range <math>S_n</math></b>	1 mm												
<b>Electrical configuration</b>	NAMUR												
<b>Supply voltage <math>V_s</math></b>	DC 5 ... 25 V												
Nominal voltage $V_n$	DC 8.2 V												
Power consumption, attenuated	≤ 1 mA												
Power consumption, unattenuated	≥ 2.2 mA												
Internal capacitance	≤ 80 nF												
Internal inductance	≤ 110 μH												
Cable resistance	≤ 50 Ohm												
Temperature drift, of $s_r$	± 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												
<b>Connection type</b>	Cable, PVC, 2 m												
<b>Enclosure rating</b>	IP 67 <sup>2)</sup>												
Max. switching frequency	2,000 Hz												
Dimensions	M8 x 1 <sup>3)</sup>												
Shock/vibration stress	30 g, 11 ms/10 ... 55 Hz, 1 mm												
Ambient temperature $T_a$	-25 °C ... +70 °C												
<b>Housing material</b>	Brass nickel-plated, plastic												
Tightening torque	2.5 Nm												

<sup>1)</sup> according to 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 <math>I_{kmax}</math></b>	50 mA
<b>No load voltage <math>U_0</math></b>	16 V
<b>Power loss <math>P_{max}</math></b>	75 mW

Order information	
<b>Type</b>	<b>Order no.</b>
IM08-01B-N-ZW0	6 021 123