



**Inductive proximity sensors**  
**Cylindrical threaded housing, IM30**

IM30-22BNS-ZWB



**Model Name** > **IM30-22BNS-ZWB**  
**Part No.** > **6041211**



**At a glance**

- Triple operating distance up to 40 mm
- Operating temperature from -25 °C to +70 °C
- High switching frequencies
- Sizes M30

**Your benefits**

- Reduced machine downtime and maintenance costs
- Large operating reserve due to triple operating distance improves machine throughput - no missed targets
- Saves installation space on the machine. Less space required for the same operating distance when compared with standard sensors
- Lower risk of mechanical damage due their ability to be mounted further from the target
- High level of sensitivity makes them suitable for detecting difficult parts such as wires, thin sheets, small screws – reduces design and installation time



**Features**

Design:	Cylindrical
Thread size:	M30 x 1.5
Sensing range Sn:	22 mm
Installation type:	Quasi-flush <sup>1)</sup>
Switching frequency:	200 Hz
Output type:	NPN
Output function:	NO
Electrical wiring:	DC 3-wire
Enclosure rating:	IP 67 <sup>2)</sup>
Electrical connection:	Cable, 3-wire, 5 m
Housing:	Standard

<sup>1)</sup> Please note the installation notes <sup>2)</sup> According to EN 60529

**Mechanics/electronics**

Supply voltage:	10 V DC ... 30 V DC
Residual ripple:	≤ 20 % <sup>1)</sup>
Voltage drop:	≤ 2 V <sup>2)</sup>
Power consumption:	≤ 10 mA <sup>3)</sup>
Time delay before availability:	≤ 200 ms

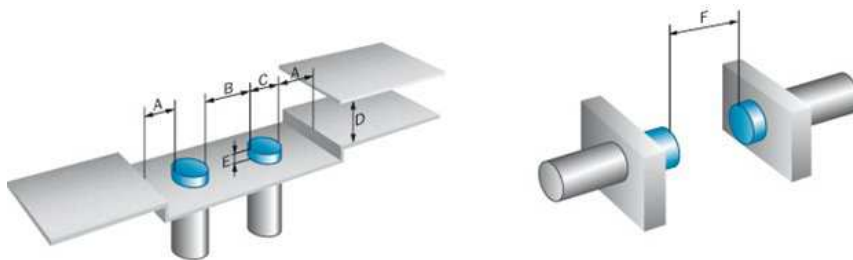
Hysteresis:	1 % ... 15 %
Repeatability:	$\leq 5 \%$ <sup>4) 5)</sup>
Temperature drift (of Sr):	$\pm 10 \%$
EMC:	According to EN 60947-5-2
Output current I <sub>a</sub> :	$\leq 200 \text{ mA}$
Cable material:	PVC
Conductor cross-section:	0.34 mm <sup>2</sup>
Cable diameter:	5 mm
Short-circuit protection:	✓
Reverse polarity protection:	✓
Power-up pulse protection:	✓
Shock and vibration resistance:	30 g, 11 ms/10 ... 55 Hz, 1 mm
Ambient temperature operation:	-25 °C ... 70 °C
Housing material:	Metal, Chrome-plated brass
Housing cap material:	Plastic, PBTP
Housing length:	60 mm
Thread length:	60 mm
Tightening torque, max.:	70 Nm

1) Of V<sub>S</sub> 2) At I<sub>a</sub> max 3) Without load 4) Of Sr 5) UB = 20 V DC ... 30 V DC, TA = 23 °C ± 5 °C

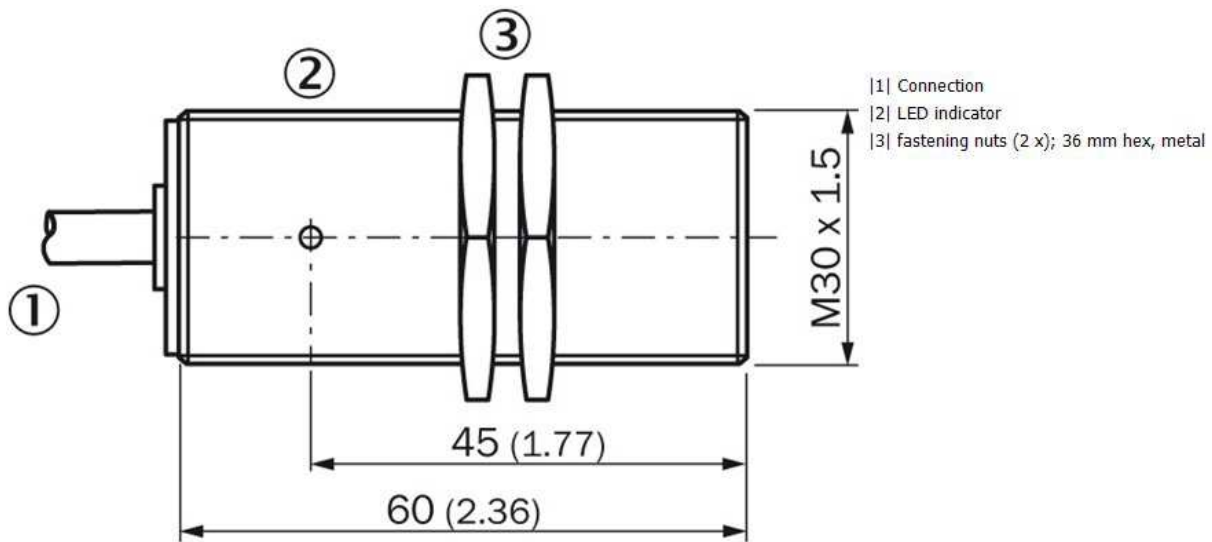
### Installation note

Remark: Associated graphic see "Installation"

### Installation note non-flush installation

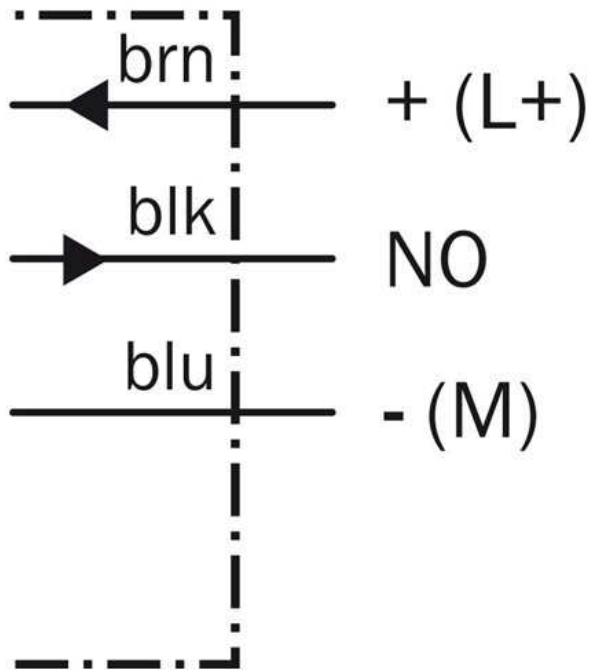


## Dimensional drawing



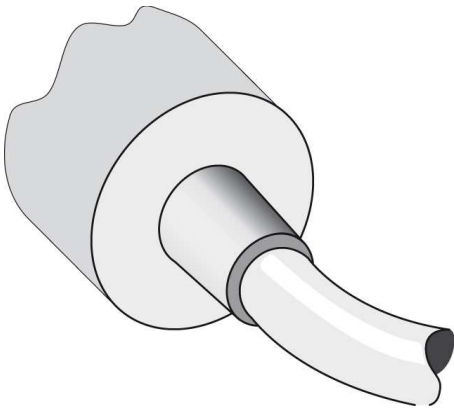
All dimensions in mm (inch)

## Connection diagram



**Connection type**

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