

ONLINE DATA SHEET
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Inductive proximity sensors
Cylindrical threaded housing, IME30

IME30-20NPSZC0K



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Inductive proximity sensors
Cylindrical threaded housing, IME30

Model Name > IME30-20NPSZC0K
Part No. > 1041045





At a glance

- Size M30
- IP 67 enclosure rating
- Operating temperature from -25° C to +75° C

Your benefits

- Reduced machine downtime
- Reduced mechanical damage
- Fewer maintenance costs due to longer service life
- High resistance to shock and vibrations

Features

Design:	Cylindrical
Thread size:	M30 x 1.5
Sensing range Sn:	20 mm
Assured sensing range Sa:	16.2 mm
Installation type:	Non-flush
Switching frequency:	500 Hz
Output type:	PNP
Output function:	NO
Electrical wiring:	DC 3-wire
Enclosure rating:	IP 67 [1]
Connection type:	Connector M12, 4-pin
Housing:	Short-body

[1] According to EN 60529

Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC
Ripple:	≤ 10 %
Voltage drop:	≤ 2 V
Power consumption:	≤ 10 mA [1]
Time delay before availability:	≤ 125 ms
Hysteresis:	5 % ... 15 %
Repeatability::	≤ 2 % [2] [3]
Temperature drift (of Sr):	± 10 %
EMC:	According to EN 60947-5-2

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Output current Ia:	≤ 200 mA
Short-circuit protection:	✓
Reverse polarity protection:	✓
Power-up pulse protection:	✓
Shock and vibration resistance:	30 g, 11 ms/10 Hz ... 55 Hz, 1 mm
Ambient operating temperature:	-25 °C ... 75 °C
Housing material:	Metal, Nickel-plated brass
Housing cap material:	Plastic, PA6
Housing length:	52 mm
Thread length:	22 mm
Tightening torque, max.:	100 Nm

[1] Without load [2] Ub and Ta constant [3] Of Sr

Reduction factors

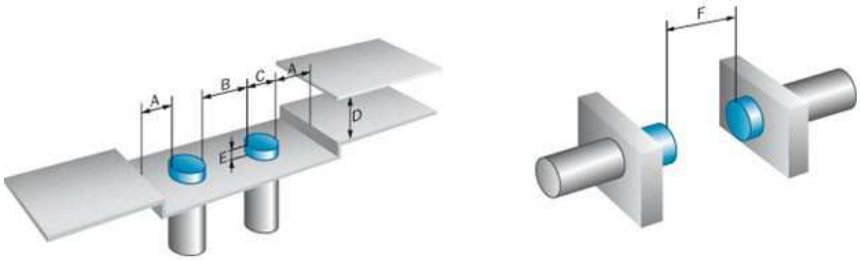
Note:	The values are reference values which may vary
Carbon steel St37 (Fe):	1
Stainless steel (V2A, 304):	Ca. 0.8
Copper (Cu):	Ca. 0.4
Aluminum (Al):	Ca. 0.45
Brass (Br):	Ca. 0.4

Installation note

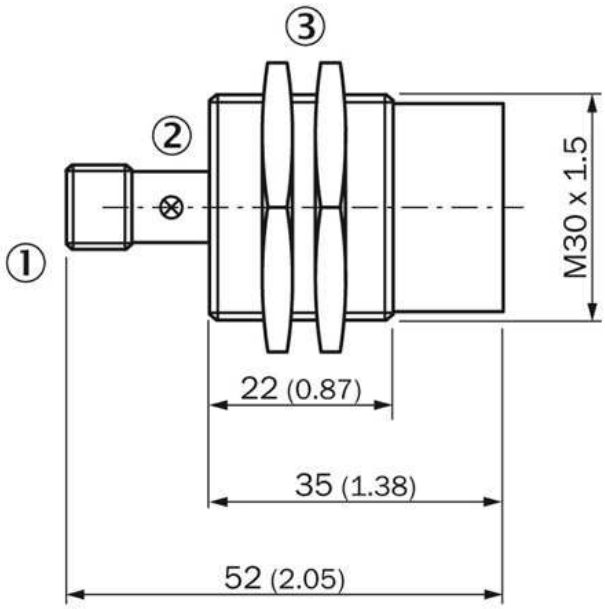
A:	30 mm
B:	60 mm
C:	30 mm
D:	60 mm
E:	40 mm
F:	160 mm
Remark:	Associated graphic see "Installation"

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Installation note



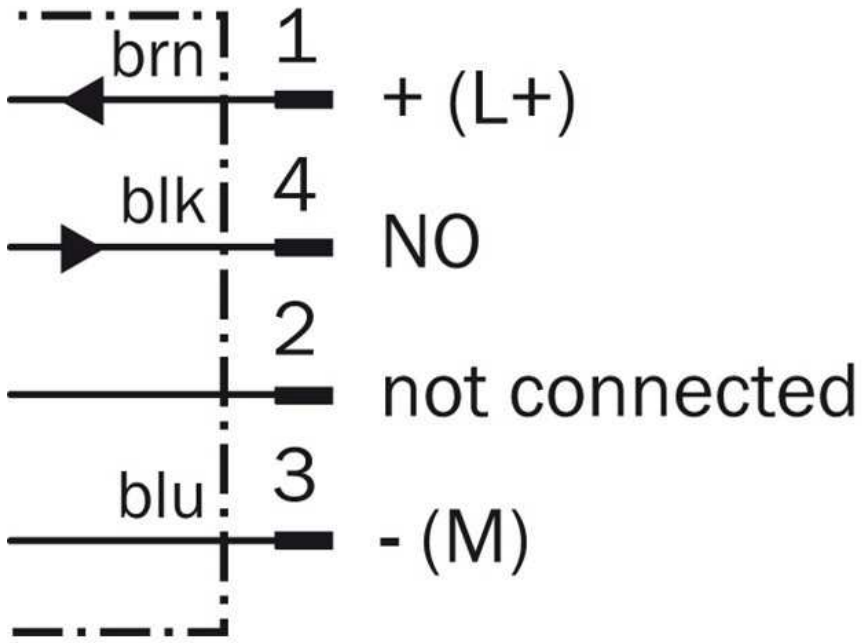
Dimensional drawing



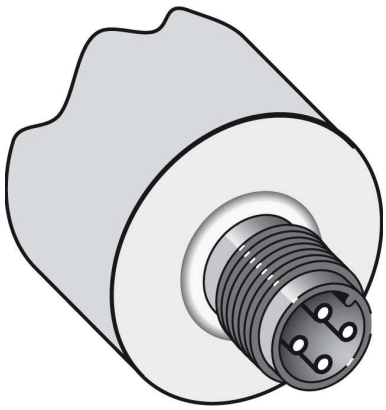
|1| Connection
|2| LED indicator
|3| fastening nuts (2 x); 36 mm hex, metal

All dimensions in mm (inch)

Connection diagram



Connection type



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