

ONLINE DATA SHEET
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Inductive proximity sensors
Cylindrical threaded housing, IME18

IME18-12NDSZC0S



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Inductive proximity sensors
Cylindrical threaded housing, IME18

Model Name > IME18-12NDSZC0S
Part No. > 1067181





At a glance

- Size M18
- 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:	M18 x 1
Sensing range Sn:	12 mm
Assured sensing range Sa:	9.72 mm
Installation type:	Non-flush
Switching frequency:	± 1,000 Hz
Output function:	NO
Electrical wiring:	DC 2-wire
Enclosure rating:	IP 67 [1]
Electrical connection:	Connector M12, 4-pin
Housing:	Standard

[1] According to EN 60529

Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC
Residual ripple:	≤ 10 %
Voltage drop::	≤ 4 V, ≤ 4.5 V [1] [2]
Power consumption:	≤ 10 mA [3]
Time delay before availability:	≤ 100 ms
Hysteresis:	5 % ... 15 %
Repeatability::	≤ 2 % [4] [5]
Temperature drift (of Sr):	± 10 %
EMC:	According to EN 60947-5-2
Output current Ia:	≤ 100 mA

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Off-state current:	≤ 0.8 mA
Load resistance, min.:	3 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:	69 mm
Thread length:	42 mm
Tightening torque, max.:	≤ 40 Nm
Power-up pulse:	≤ 5 ms

[1] At I_a = 30 mA [2] At I_a max [3] Without load [4] Ub and Ta constant [5] Of Sr

Reduction factors

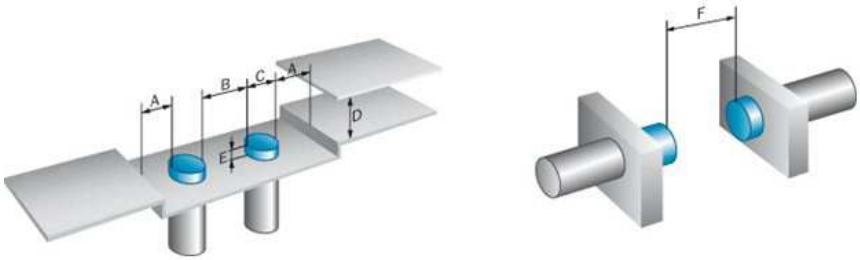
Note:	The values are reference values which may vary
Carbon steel St37 (Fe):	1
Stainless steel (V2A, 304):	Ca. 0.8
Copper (Cu):	Ca. 0.4
Aluminum (Al):	Ca. 0.45
Brass (Br):	Ca. 0.4

Installation note

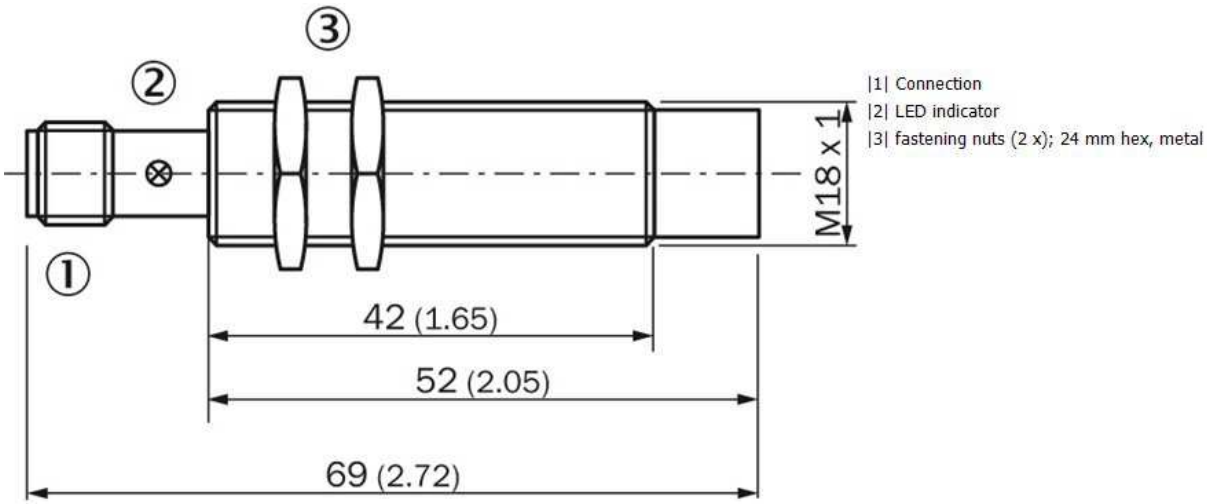
A:	18 mm
B:	36 mm
C:	18 mm
D:	36 mm
E:	24 mm
F:	96 mm
Remark:	Associated graphic see "Installation"

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Installation note

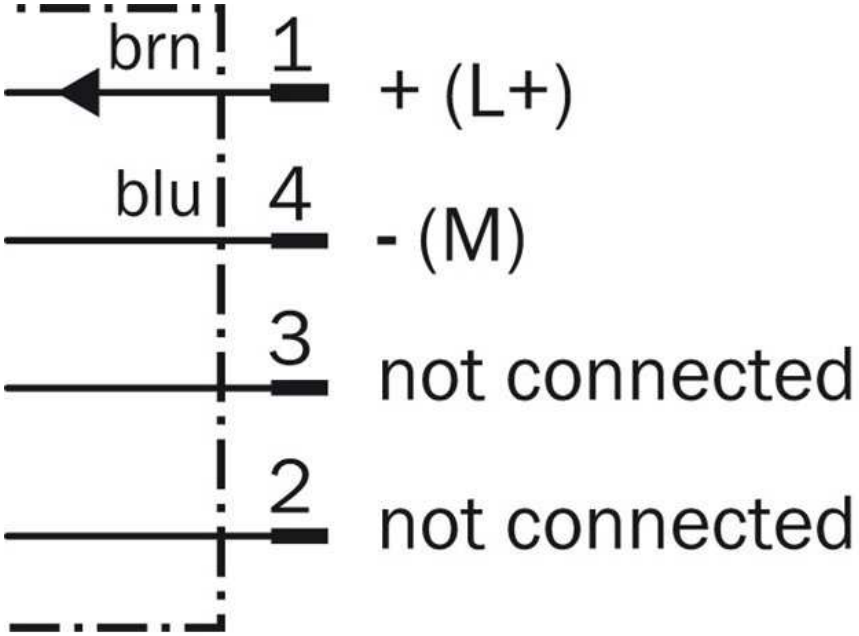


Dimensional drawing

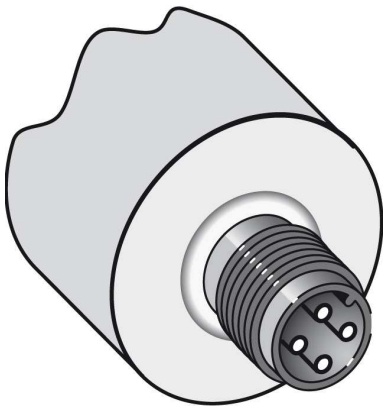


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Connection diagram



Connection type



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