

ONLINE DATA SHEET
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Inductive proximity sensors
Cylindrical threaded housing, IME18

IME18-08BPPZC0S



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Inductive proximity sensors
Cylindrical threaded housing, IME18

Model Name > IME18-08BPPZC0S
Part No. > 1056708



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:	8 mm
Assured sensing range Sa:	6.48 mm
Installation type:	Flush
Switching frequency:	1,000 Hz
Output type:	PNP
Output function:	Complementary
Electrical wiring:	DC 4-wire
Enclosure rating:	IP 67 [1]
Connection type:	Connector M12, 4-pin
Housing:	Standard

[1] According to EN 60529

Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC
Ripple:	≤ 10 %
Voltage drop:	≤ 2 V [1]
Power consumption:	≤ 10 mA [2]
Time delay before availability:	≤ 100 ms
Hysteresis:	5 % ... 15 %
Repeatability::	≤ 2 % [3] [4]
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:	69 mm
Thread length:	52 mm
Tightening torque, max.:	≤ 40 Nm

1) At I_a max 2) Without load 3) Ub and Ta constant 4) Of Sr

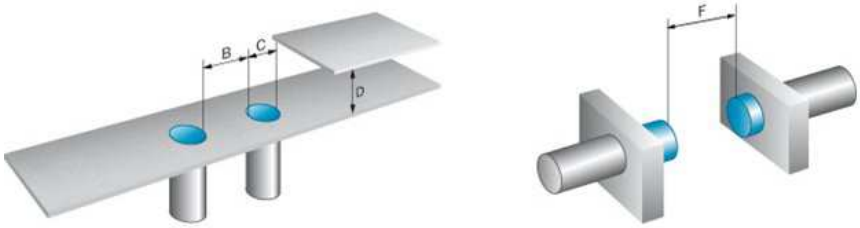
Reduction factors

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

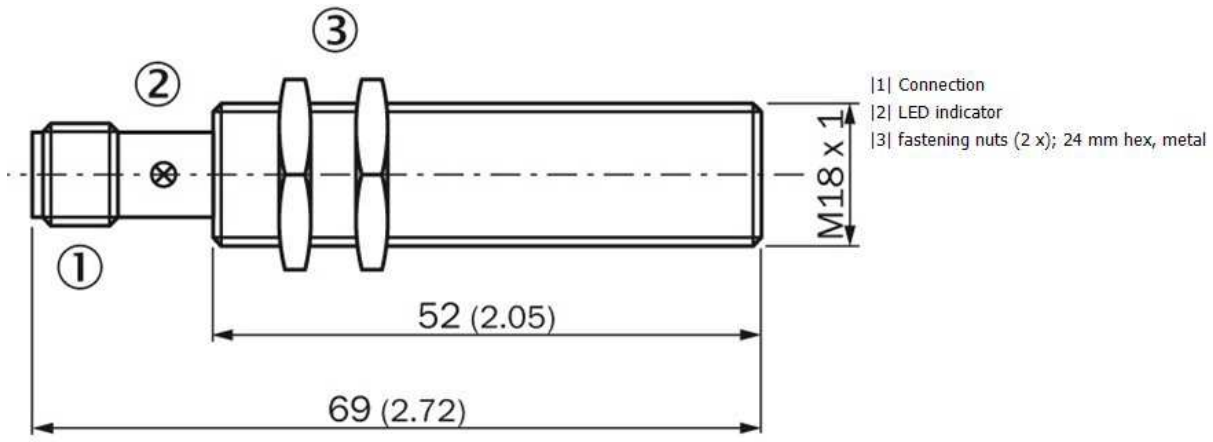
Remark:	Associated graphic see "Installation"

Installation note

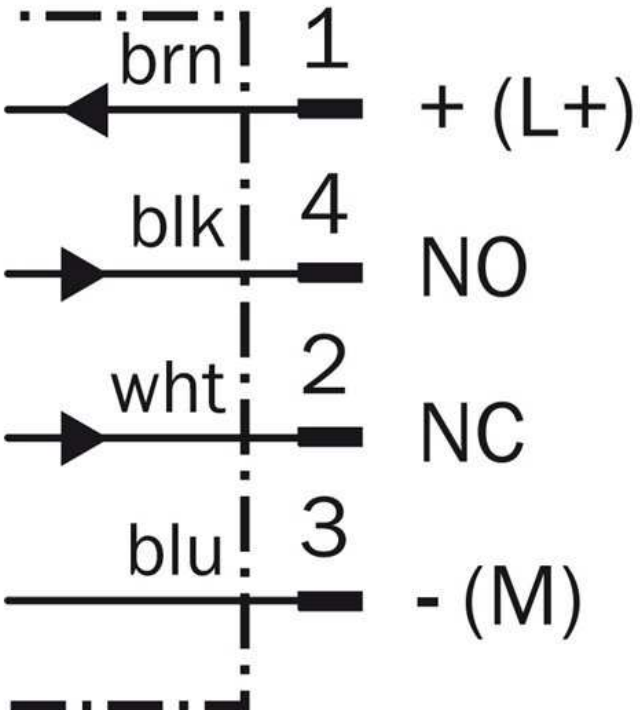


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Dimensional drawing

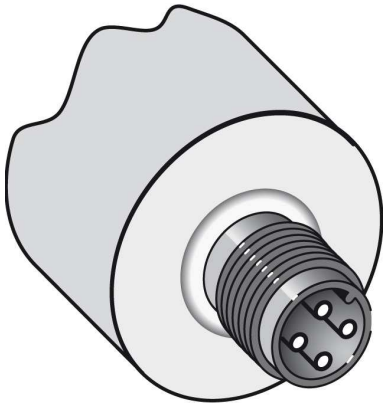


Connection diagram



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Connection type



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