



Inductive proximity sensors Cylindrical threaded housing, IME12

IME12-04BPPZC0K



Model Name > [IME12-04BPPZC0K](#)
Part No. > [1060546](#)



At a glance

- Size M12
- 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

Housing:	Cylindrical
Thread size:	M12 x 1
Sensing range Sn:	4 mm
Assured sensing range Sa:	3.24 mm
Installation type:	Flush
Switching frequency:	± 2,000 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
Power consumption:	≤ 10 mA ¹⁾
Time delay before availability:	≤ 100 ms
Hysteresis:	5 % ... 15 %
Repeatability:	≤ 2 % ^{2) 3)}
Temperature drift (% of Sr):	± 10 %
EMC:	According to EN 60947-5-2

Output current I_a :	$\leq 200 \text{ mA}$
Short-circuit protection:	✓
Reverse polarity protection:	✓
Power-up pulse protection:	✓
Shock/vibration:	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:	46 mm
Thread length:	28.5 mm
Tightening torque, max.:	$\leq 12 \text{ Nm}$

1) Without load 2) U_b and T_a constant 3) Of S_r

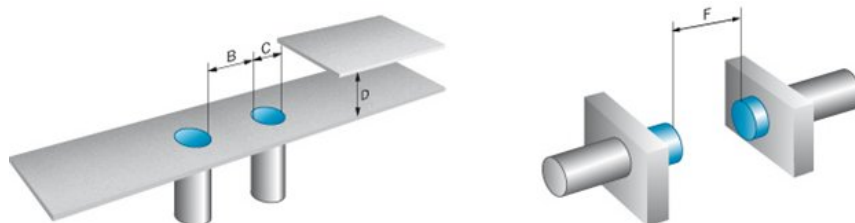
Reduction factors

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

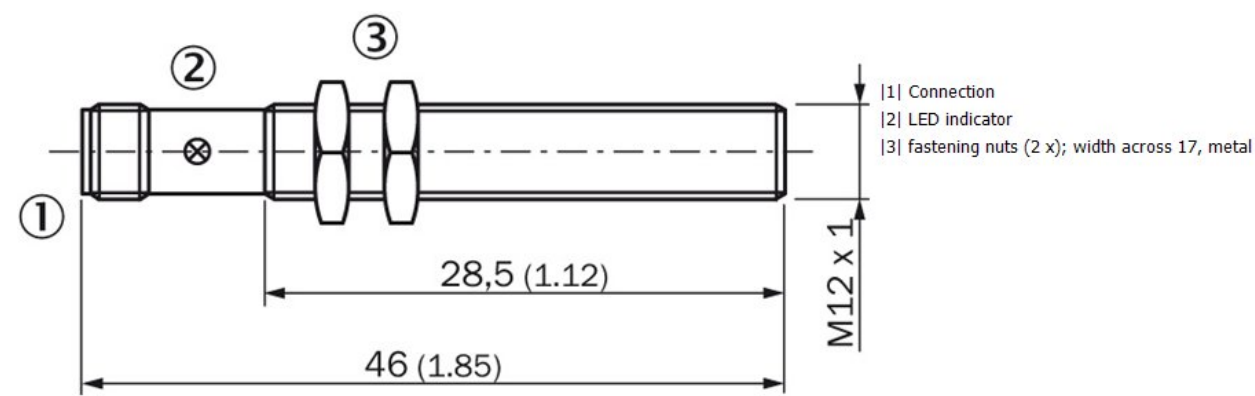
Installation note

Remark:	Associated graphic see "Installation"
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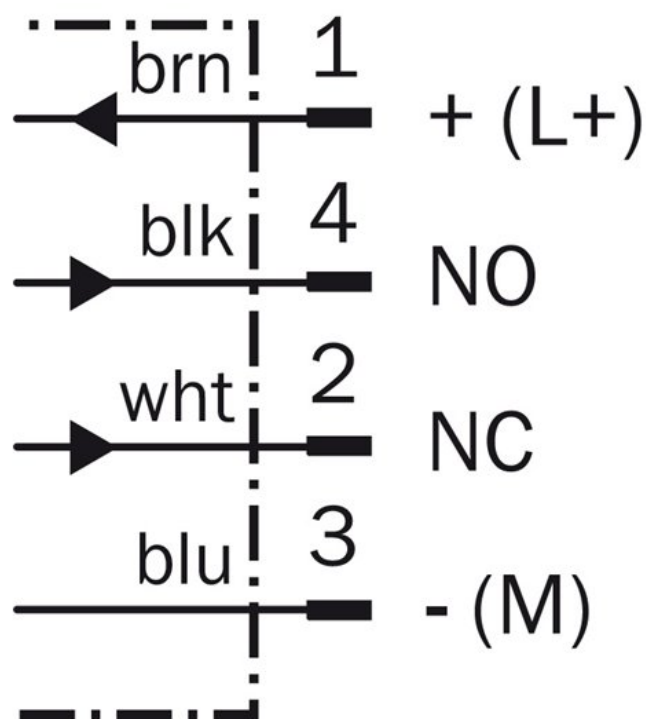
Installation note



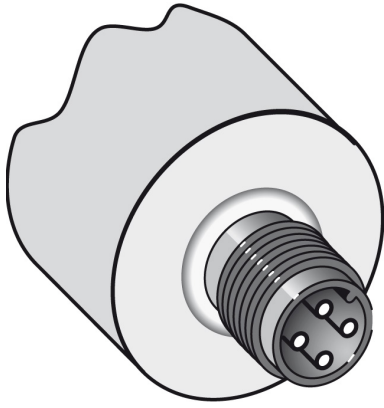
Dimensional drawing



Connection diagram



Connection type



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