

Model Name > [IME08-02BNOZT0K](#)
Part No. > [1040881](#)



At a glance

- Size M08
- 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

Sensing range S_n :	≤ 2 mm
Installation type:	Flush
Switching frequency:	4,000 Hz
Connection type:	Connector M8, 3-pin
Output type:	NPN
Output function:	NC
Electrical wiring:	DC 3-wire
Enclosure rating:	IP 67 ¹⁾
Housing:	Cylindrical
Housing-design:	Short-body housing
Assured sensing range S_a :	1.62 mm

¹⁾ According to EN60529

Mechanics/electronics

Housing length:	41 mm
Supply voltage:	10 V DC ... 30 V DC
Residual ripple:	≤ 10 %
Power consumption:	≤ 10 mA ¹⁾
Voltage drop:	≤ 2 V
Output current I_a :	≤ 200 mA
Hysteresis:	5 % ... 15 %
Repeatability:	≤ 2 % ^{2) 3)}
Temperature drift (% of S_r):	± 10 %
EMC:	According to EN 60947-5-2

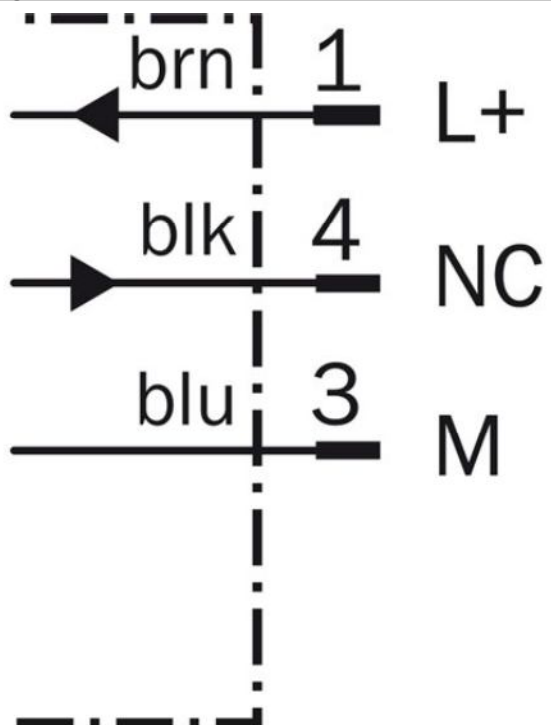
Reverse polarity protection:	✓
Short-circuit protection:	✓
Housing material:	Metal, Nickel-plated brass
Housing cap material:	Plastic, PA6
Power-up pulse protection:	✓
Time delay before availability:	≤ 100 ms
Ambient operating temperature:	-25 °C ... 75 °C
Shock/vibration:	30 g, 11 ms/10 ... 55 Hz, 1 mm
Tightening torque, max.:	Typ. 5 Nm
Thread size:	M8 x 1
Thread length:	25 mm
Wire-break protection:	1

1) Without load 2) Ub and Ta constant 3) Of Sr

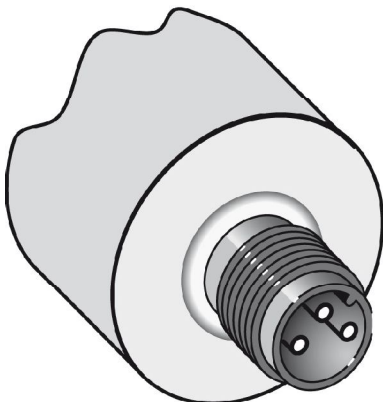
Dimensional drawing

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Connection diagram



Connection type



Model Name > [IME12-02BNOZW2K](#)
Part No. > [1040745](#)



At a glance

- Precise operating distances due to ASIC technology
- Extra tough thanks to high fastener torque and hot melt adhesive
- Protection class IP 67
- Operating temperature from -25 to +75 °C
- Operating distance from 2 mm to 8 mm
- Size M12
- Customer-specific models available

Your benefits

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



Features

Sensing range Sn:	2 mm
Installation in metal:	Flush
Switching frequency:	2,000 Hz
Connection type:	Cable, 3-wire, 2 m
Switching output:	NPN
Output function:	NC
Electrical wiring:	DC 3-wire
Enclosure rating:	IP 67 ¹⁾
Switching mode:	NC

¹⁾ According to EN60529

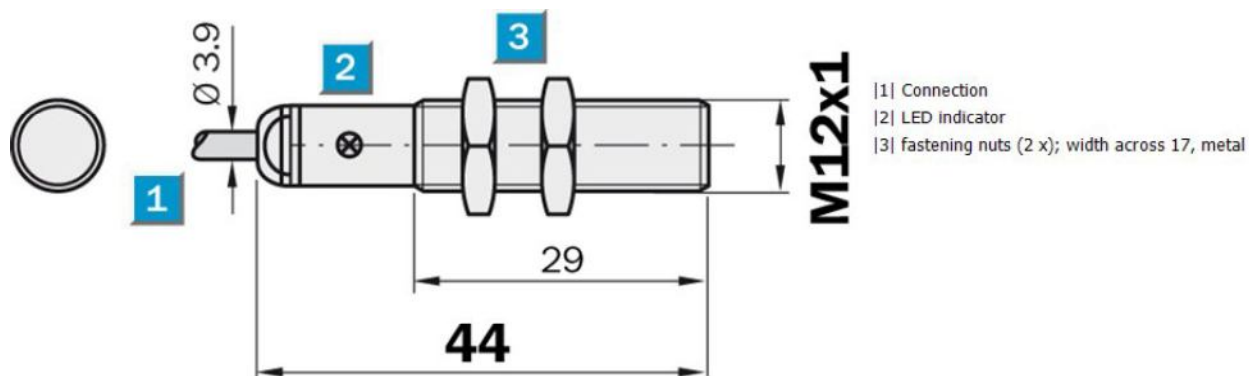
Mechanics/electronics

Design:	cylindrical
Housing length:	44 mm
Supply voltage:	10 V DC ... 30 V DC
Residual ripple:	≤ 10 %
Power consumption:	≤ 10 mA ¹⁾
Voltage drop:	≤ 2 V
Continuous current I _a :	≤ 200 mA
Hysteresis:	5 % ... 15 %

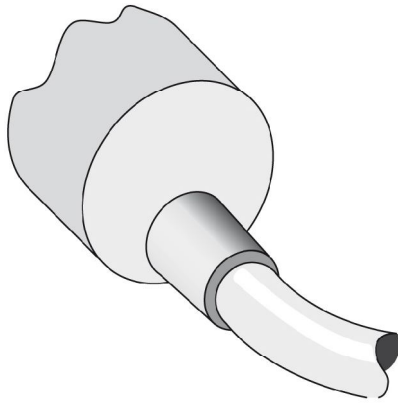
Repeatability::	$\leq 2 \%$ ^{2) 3)}
Temperature drift (of sr)::	$\pm 10 \%$
EMC:	According to EN 60947-5-2
Cable material:	PVC
Reverse polarity protection:	✓
Short-circuit protection:	✓
Housing material:	Metal, Nickel-plated brass
Housing cap:	Plastic, PA6
Power-up pulse suppression:	✓
Time delay before availability:	$\leq 100 \text{ ms}$
Ambient temperature, operation:	$-25 \text{ }^{\circ}\text{C} \dots 75 \text{ }^{\circ}\text{C}$
Shock/vibration stress:	30 g, 11 ms/10 ... 55 Hz, 1 mm
Max. tightening torque:	12 Nm
Thread size:	M12 x 1
Thread lenght:	29 mm

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

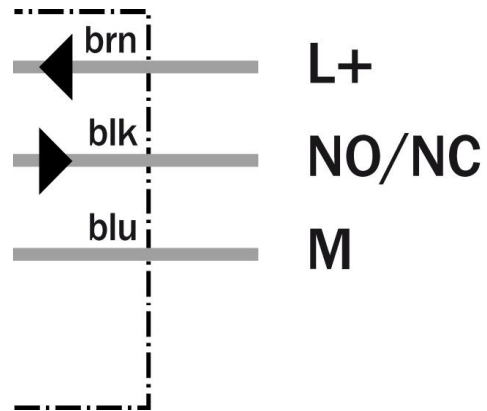
Dimensional drawing



Connection type



Connection diagram



Model Name > [IME18-05BNOZC0S](#)
Part No. > [1040946](#)



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

Housing:	Cylindrical
Thread size:	M18 x 1
Sensing range Sn:	5 mm
Assured sensing range Sa:	4.05 mm
Installation type:	Flush
Switching frequency:	1,000 Hz
Output type:	NPN
Output function:	NC
Electrical wiring:	DC 3-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
Residual 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 :	≤ 200 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:	69 mm
Thread length:	52 mm
Tightening torque, max.:	40 Nm

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

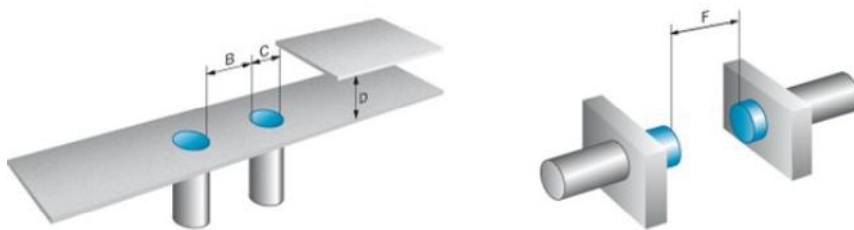
Reduction factors

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

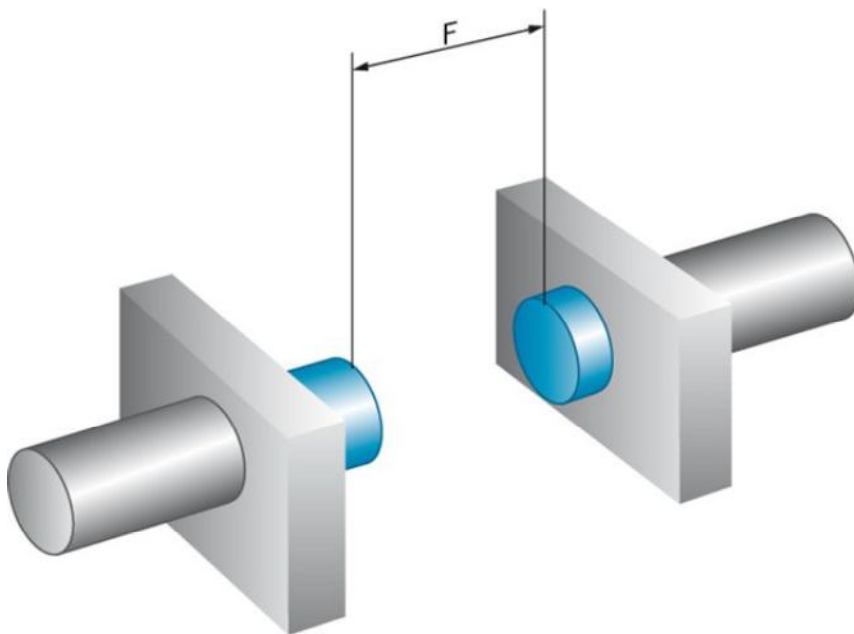
Installation note

B:	18 mm
C:	18 mm
D:	15 mm
F:	40 mm
Remark:	Associated graphic see "Installation"

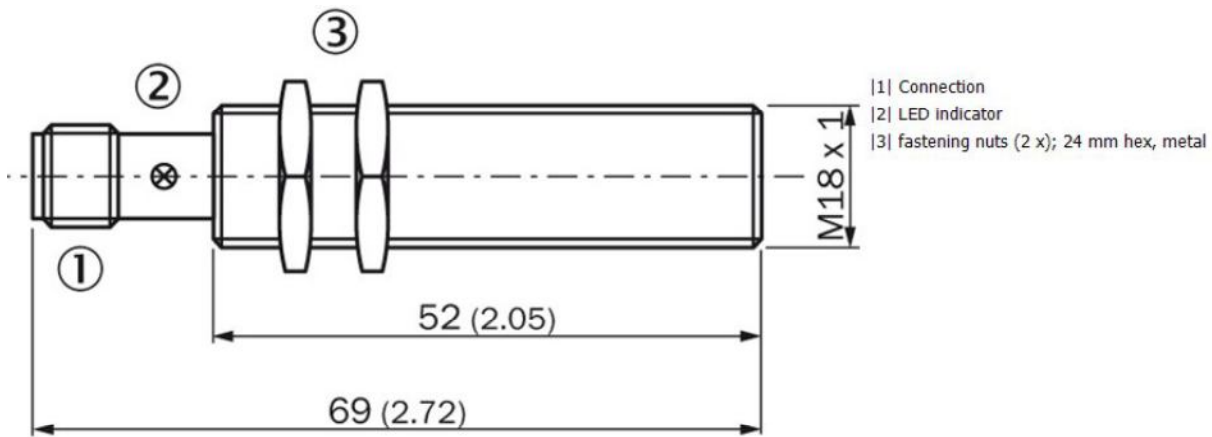
Installation note



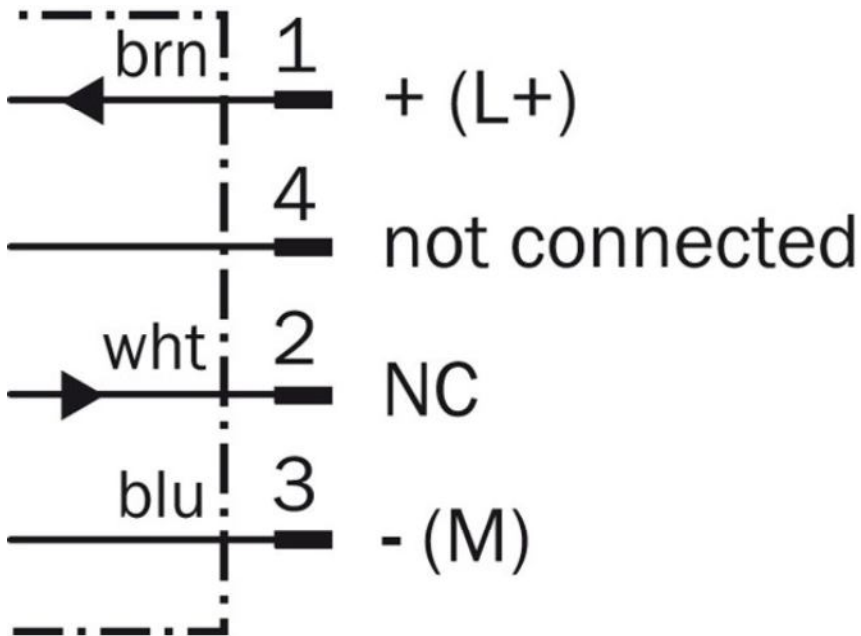
Installation note



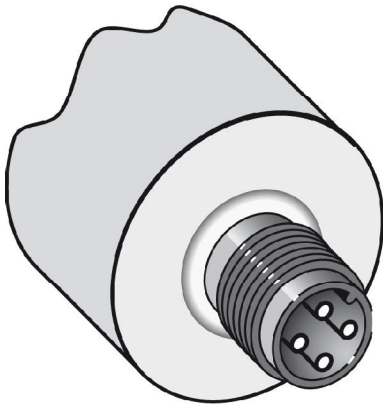
Dimensional drawing



Connection diagram



Connection type



Model Name > [IME30-10BPOZW2S](#)
Part No. > [1041004](#)



At a glance

- Precise operating distances due to ASIC technology
- Extra tough thanks to high fastener torque and hot melt adhesive
- Protection class IP 67
- Operating temperature from -25 to +75 °C
- Operating distance from 10 mm to 20 mm
- Size M30
- Customer-specific models available

Your benefits

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



Features

Sensing range Sn:	10 mm
Installation in metal:	Flush
Switching frequency:	500 Hz
Connection type:	Cable, 3-wire, 2 m
Switching output:	PNP
Output function:	NC
Electrical wiring:	DC 3-wire
Enclosure rating:	IP 67 ¹⁾
Switching mode:	NC

¹⁾ According to EN60529

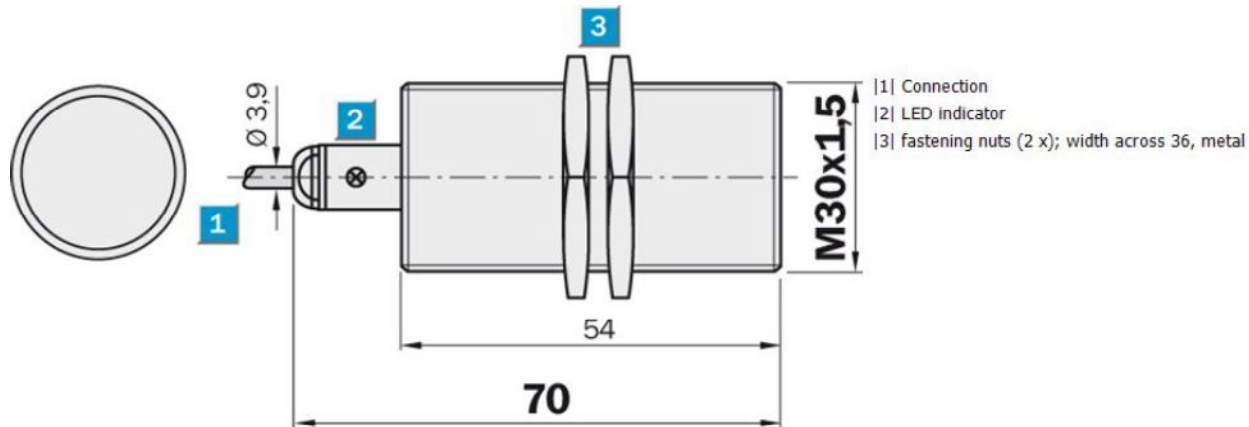
Mechanics/electronics

Design:	cylindrical
Housing length:	70 mm
Supply voltage:	10 V DC ... 30 V DC
Residual ripple:	≤ 10 %
Power consumption:	≤ 10 mA ¹⁾
Voltage drop:	≤ 2 V
Continuous current I _a :	≤ 200 mA
Hysteresis:	5 % ... 15 %

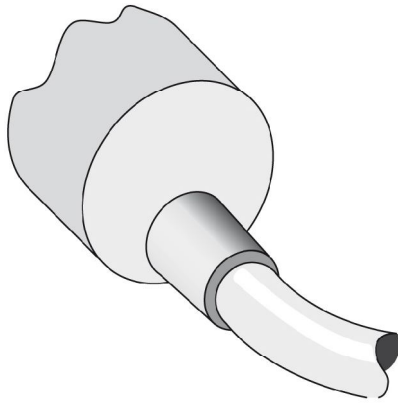
Repeatability::	$\leq 2 \%$ ^{2) 3)}
Temperature drift (of sr)::	$\pm 10 \%$
EMC:	According to EN 60947-5-2
Cable material:	PVC
Reverse polarity protection:	✓
Short-circuit protection:	✓
Housing material:	Metal, Nickel-plated brass
Housing cap:	Plastic, PA6
Power-up pulse suppression:	✓
Time delay before availability:	$\leq 125 \text{ ms}$
Ambient temperature, operation:	$-25 \text{ }^{\circ}\text{C} \dots 75 \text{ }^{\circ}\text{C}$
Shock/vibration stress:	30 g, 11 ms/10 ... 55 Hz, 1 mm
Max. tightening torque:	100 Nm
Thread size:	M30 x 1.5
Thread lenght:	54 mm

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

Dimensional drawing



Connection type



Connection diagram

