


ONLINE DATA SHEET
www.mysick.com

# Inductive proximity sensors
# Cylindrical threaded housing, IME18

IME18-12ND0ZY2S



SICK
Sensor Intelligence.

SICK
Sensor Intelligence.

# Inductive proximity sensors
# Cylindrical threaded housing, IME18

**Model Name** > IME18-12NDOZY2S
**Part No.** > 1068260



**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: | NC |
| Electrical wiring: | DC 2-wire |
| Enclosure rating: | IP 67 [1)] |
| Electrical connection: | Cable, 2-wire, 2 m |
| 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 |


© SICK AG. Subject to change without notice.

| | |
|---|---|
| Off-state current: | ≤ 0.8 mA |
| Load resistance, min.: | 3 mA |
| Cable material: | Oil-resistant PVC |
| 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

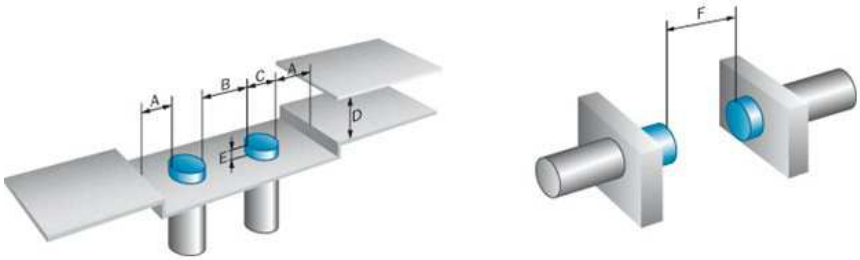
| | |
|---|---|
| Note: | The values are reference values which may vary |
| Carbon steel St37 (Fe): | 1 |
| Stainless steel (V2A, 304): | Ca. 0.8 |
| Copper (Cu): | Ca. 0.4 |
| Aluminum (Al): | Ca. 0.45 |
| Brass (Br): | Ca. 0.4 |

## Installation note

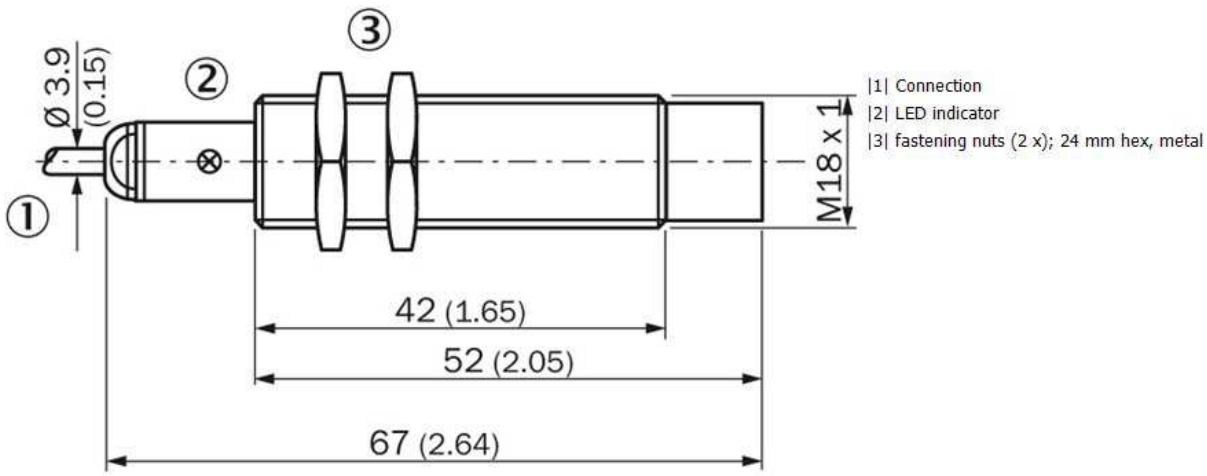
| | |
|---|---|
| A: | 18 mm |
| B: | 36 mm |
| C: | 18 mm |
| D: | 36 mm |
| E: | 24 mm |
| F: | 96 mm |
| Remark: | Associated graphic see "Installation" |


© SICK AG. Subject to change without notice.

## Installation note



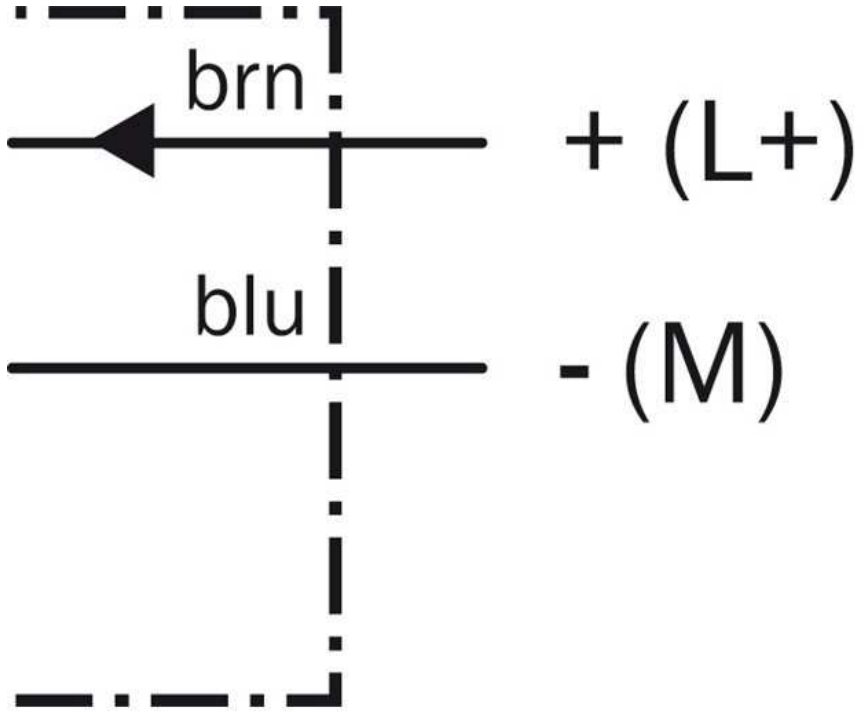

## Dimensional drawing





© SICK AG. Subject to change without notice.

## Connection diagram




## Connection type



A4 4c int43

**Australia**
Phone +61 3 9457 0600
1800 33 48 02 – tollfree
E-Mail sales@sick.com.au

**Belgium/Luxembourg**
Phone +32 (0)2 466 55 66
E-Mail info@sick.be

**Brasil**
Phone +55 11 3215-4900
E-Mail marketing@sick.com.br

**Canada**
Phone +1 905 771 14 44
E-Mail information@sick.com

**Česká republika**
Phone +420 2 57 91 18 50
E-Mail sick@sick.cz

**China**
Phone +86 4000 121 000
E-Mail info.china@sick.net.cn
Phone +852-2153 6300
E-Mail ghk@sick.com.hk

**Danmark**
Phone +45 45 82 64 00
E-Mail sick@sick.dk

**Deutschland**
Phone +49 211 5301-301
E-Mail info@sick.de

**España**
Phone +34 93 480 31 00
E-Mail info@sick.es

**France**
Phone +33 1 64 62 35 00
E-Mail info@sick.fr

**Great Britain**
Phone +44 (0)1727 831121
E-Mail info@sick.co.uk

**India**
Phone +91–22–4033 8333
E-Mail info@sick-india.com

**Israel**
Phone +972-4-6881000
E-Mail info@sick-sensors.com

**Italia**
Phone +39 02 27 43 41
E-Mail info@sick.it

**Japan**
Phone +81 (0)3 5309 2112
E-Mail support@sick.jp

**Magyarország**
Phone +36 1 371 2680
E-Mail office@sick.hu

**Nederland**
Phone +31 (0)30 229 25 44
E-Mail info@sick.nl

**Norge**
Phone +47 67 81 50 00
E-Mail sick@sick.no

**Österreich**
Phone +43 (0)22 36 62 28 8-0
E-Mail office@sick.at

**Polska**
Phone +48 22 837 40 50
E-Mail info@sick.pl

**România**
Phone +40 356 171 120
E-Mail office@sick.ro

**Russia**
Phone +7-495-775-05-30
E-Mail info@sick.ru

**Schweiz**
Phone +41 41 619 29 39
E-Mail contact@sick.ch

**Singapore**
Phone +65 6744 3732
E-Mail sales.gsg@sick.com

**Slovenija**
Phone +386 (0)1-47 69 990
E-Mail office@sick.si

**South Africa**
Phone +27 11 472 3733
E-Mail info@sickautomation.co.za

**South Korea**
Phone +82 2 786 6321/4
E-Mail info@sickkorea.net

**Suomi**
Phone +358-9-25 15 800
E-Mail sick@sick.fi

**Sverige**
Phone +46 10 110 10 00
E-Mail info@sick.se

**Taiwan**
Phone +886 2 2375-6288
E-Mail sales@sick.com.tw

**Türkiye**
Phone +90 (216) 528 50 00
E-Mail info@sick.com.tr

**United Arab Emirates**
Phone +971 (0) 4 88 65 878
E-Mail info@sick.ae

**USA/México**
Phone +1(952) 941-6780
1 (800) 325-7425 – tollfree
E-Mail info@sickusa.com

More representatives and agencies
at **www.sick.com**



SICK
Sensor Intelligence.