



## Inductive proximity sensors Cylindrical threaded housing, IM30

IM30-15NUS-ZUX



**Model Name** > [IM30-15NUS-ZUX](#)  
**Part No.** > [6021588](#)

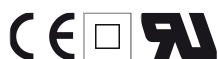


#### At a glance

- Size M30
- IP 67 enclosure rating
- Operating temperature from -25° C to +70° 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:          | M30 x 1.5                     |
| Sensing range Sn:     | 15 mm                         |
| Installation type:    | Non-flush                     |
| Switching frequency:: | 25 Hz, 30 Hz <sup>1) 2)</sup> |
| Output function:      | NO                            |
| Electrical wiring:    | AC/DC 2-wire                  |
| Enclosure rating:     | IP 67 <sup>3)</sup>           |
| Connection type:      | Cable, 2-wire, 2 m            |
| Housing:              | Standard                      |

<sup>1)</sup> AC <sup>2)</sup> DC <sup>3)</sup> According to EN 60529

#### Mechanics/electronics

|                                 |                                                               |
|---------------------------------|---------------------------------------------------------------|
| Supply voltage:                 | 20 V AC/DC ... 250 V AC/DC                                    |
| Voltage drop:                   | ≤ 6.5 V AC<br>≤ 6 V DC                                        |
| Time delay before availability: | ≤ 8 ms                                                        |
| Hysteresis:                     | 1 % ... 15 %                                                  |
| Repeatability::                 | ≤ 10 % <sup>1) 2)</sup>                                       |
| Temperature drift (% of Sr):    | ± 10 %                                                        |
| EMC:                            | According to EN 60947-5-2                                     |
| Output current Ia:              | ≤ 100 mA (DC), ≤ 250 mA (AC (+80 °C)), ≤ 350 mA (AC (+50 °C)) |
| Off-state current:              | ≤ 0.8 mA (DC 24 V), ≤ 1.3 mA (AC 110 V), ≤ 2.5 mA (AC 250 V)  |
| Load resistance, min.:          | 5 mA                                                          |

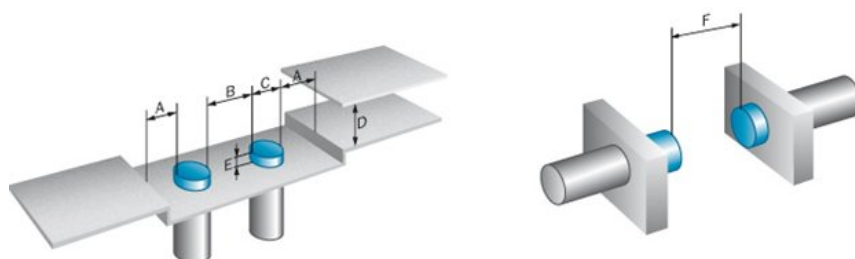
|                                          |                                |
|------------------------------------------|--------------------------------|
| Short-time withstand current:            | 2.2 A <sup>3)</sup>            |
| Cable material:                          | PVC                            |
| Conductor cross-section:                 | 0.5 mm <sup>2</sup>            |
| Wire-break protection:                   | 0                              |
| Short-circuit protection <sup>4)</sup> : | -                              |
| Reverse polarity protection:             | -                              |
| Power-up pulse protection:               | ✓                              |
| Shock/vibration:                         | 30 g, 11 ms/10 ... 55 Hz, 1 mm |
| Ambient operating temperature:           | -25 °C ... 70 °C               |
| Housing material:                        | Metal, Nickel-plated brass     |
| Housing cap material:                    | Plastic                        |
| Housing length:                          | 81 mm                          |
| Thread length:                           | 44 mm                          |
| Tightening torque, max.:                 | ≤ 50 Nm                        |
| Protection class:                        | II                             |
| Special features:                        | Series connectable             |

1)  $U_b$  and  $T_a$  constant 2) Of Sr 3) 20 ms/0.5 Hz 4) Miniature fuse as per IEC 60217-2 Sheet 1, ≤ 2 A (quick-blow)

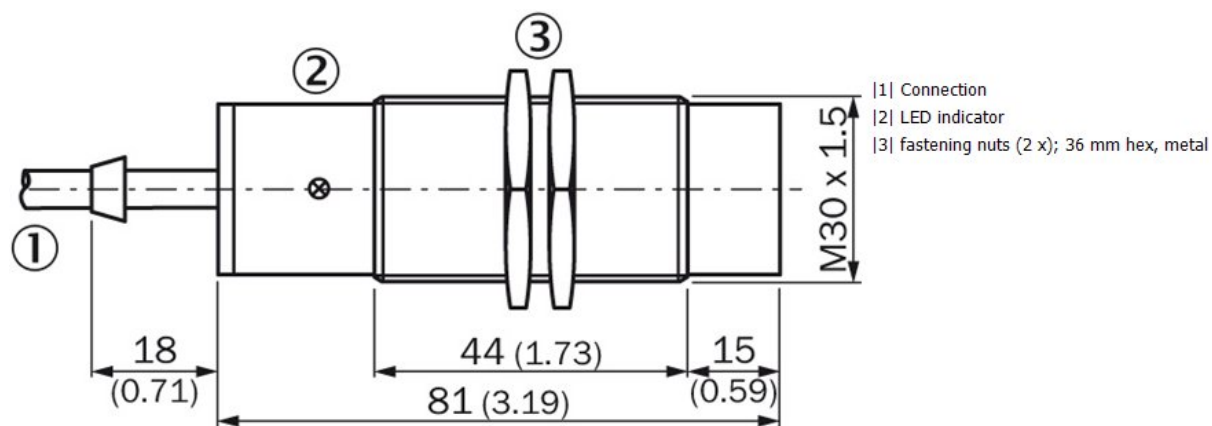
### Installation note

Remark: Associated graphic see "Installation"

### Installation note

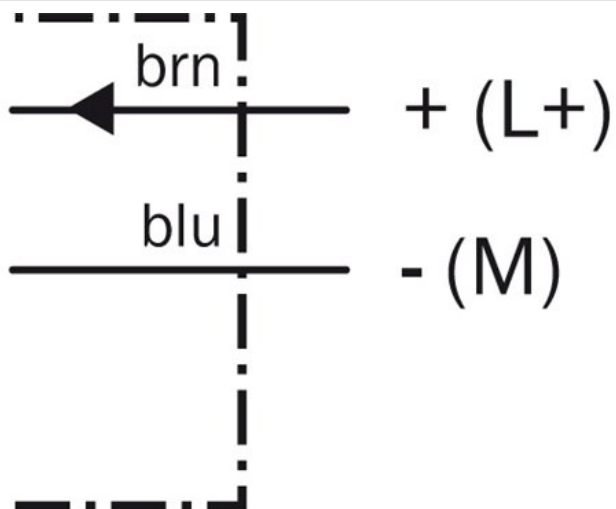


## Dimensional drawing



All dimensions in mm (inch)

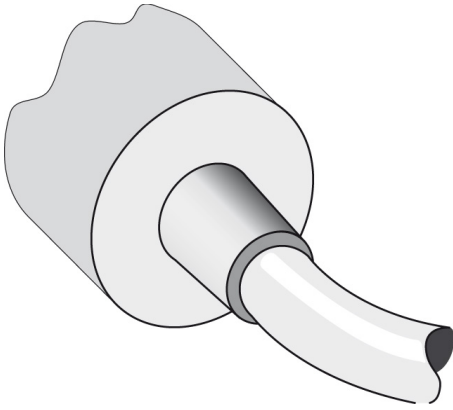
## Connection diagram



Miniature fuse to IEC60127-2  
sheet 1,  $\leq 2$  A (fast acting)

## Connection type

---



#### **Australia**

Phone +61 3 9457 0600  
1800 334 802 – 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 sac@sick.com.br

#### **Canada**

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

#### **Ceská 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 kundenservice@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 +972-4-6801000  
E-Mail info@sick-sensors.com

#### **Italia**

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

#### **Japan**

Phone +81 (0)3 3358 1341  
E-Mail support@sick.jp

#### **Magyarország**

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

#### **Nederlands**

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

#### **Norge**

Phone +47 67 81 50 00  
E-Mail austefjord@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 admin@sicksgp.com.sg

#### **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 8865 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](http://www.sick.com)