


ONLINE DATA SHEET
www.mysick.com

# Inductive proximity sensors
# Rectangular housing, IQ08

IQ08-04NNSKW2S




SICK
Sensor Intelligence.

SICK
Sensor Intelligence.

# Inductive proximity sensors
# Rectangular housing, IQ08

**Model Name** > IQ08-04NNSKW2S
**Part No.** > 1055500



### At a glance

- Tough VISTALTM housing
- SICK-ASIC technology
- 270° status display with extra-bright LED
- Extended sensing range of up to 4 mm
- Hotmelt molding
- Threaded metal inserts
- IP 68 enclosure rating

### Your benefits

- Best mechanical and electronic stability for extra-long service life
- Highest levels of process reliability for your application
- Long service life that reduce maintenance costs thanks to SICK's ASIC technology and rugged VISTALTM housing
- Precise detection and high sensor accuracy enable fast handling and assembly processes
- Space-saving integration in every application
- Increased levels of protection against shock and vibration reduce maintenance costs
- Quick viewing of sensor status from any position in the room reduces mounting time and commissioning
- Safe, fast mounting without any need for readjustment saves installation time and maintenance costs

### Features

| | |
|---|---|
| Design: | Rectangular |
| Dimensions (W x H x D): | 8 mm x 8 mm x 40 mm |
| Sensing range Sn: | 4 mm |
| Assured sensing range Sa: | 3.24 mm |
| Installation type: | Non-flush |
| Switching frequency: | 2,000 Hz |
| Output type: | NPN |
| Output function: | NO |
| Electrical wiring: | DC 3-wire |
| Enclosure rating: | IP 67<br>IP 68 1) |
| Connection type: | Cable, 3-wire, 2 m |


© SICK AG. Subject to change without notice.

[1] According to EN 60529

## Mechanics/electronics

| | |
|---|---|
| Supply voltage: | 10 V DC ... 30 V DC |
| Ripple: | ≤ 10 % [1] |
| Voltage drop: | ≤ 2 V [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: | ≤ 200 mA |
| Cable material: | PVC |
| Conductor cross-section: | 0.14 mm² |
| Cable diameter: | Ø 2.9 mm |
| Short-circuit protection: | ✓ |
| Reverse polarity protection: | ✓ |
| Power-up pulse protection: | ✓ |
| Shock and vibration resistance: | 30 g, 11 ms／10 ... 55 Hz, 1 mm |
| Ambient operating temperature: | -25 °C ... +75 °C |
| Sensing face material: | Plastic, VISTAL |
| Tightening torque, max.: | ≤ 1.5 Nm |
| Housing material: | Plastic, VISTAL |
| UL File No.: | NRKH.E348498 |

[1] Of $V_S$ [2] At $I_a$ max [3] Without load [4] Ub and Ta constant [5] Of Sr

## Reduction factors

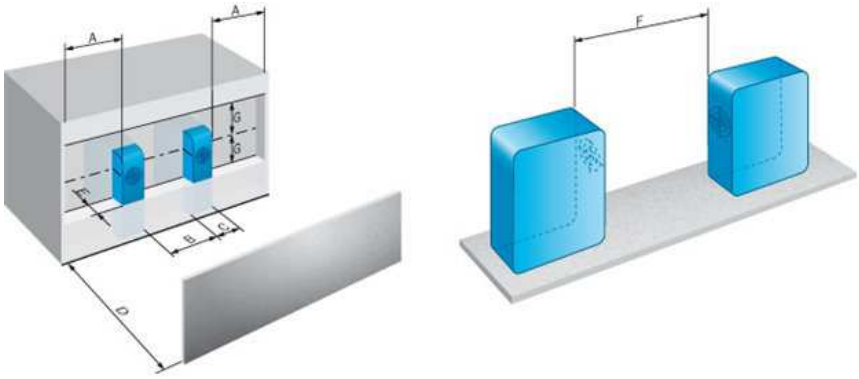
| | |
|---|---|
| Note: | The values are reference values which may vary |
| Stainless steel (V2A, 304): | 0.7 |
| Copper (Cu): | 0.4 |
| Aluminum (Al): | 0.5 |
| Brass (Br): | 0.5 |

## Installation note

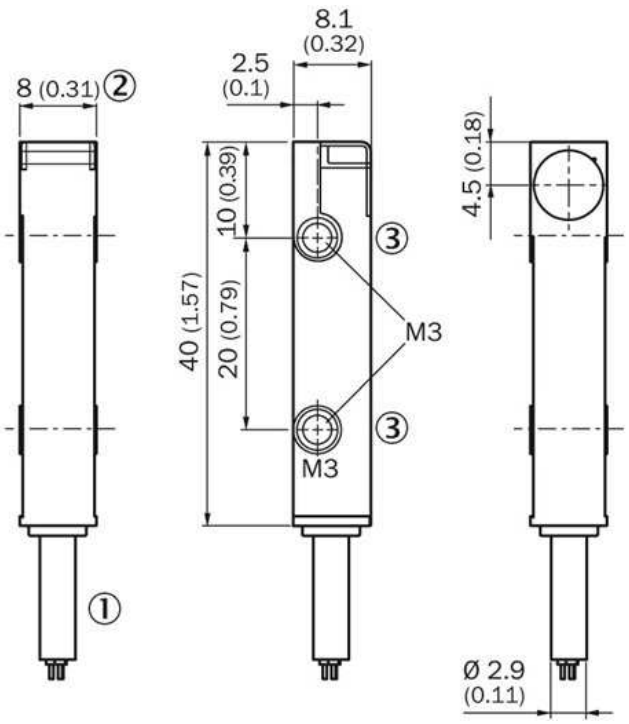
| | |
|---|---|
| A: | 4 mm |
| B: | 24 mm |
| C: | 8 mm |
| D: | 12 mm |
| E: | 20 mm |
| F: | 32 mm |
| G: | 8 mm |
| Remark: | Associated graphic see "Installation" |


© SICK AG. Subject to change without notice.

## Installation note



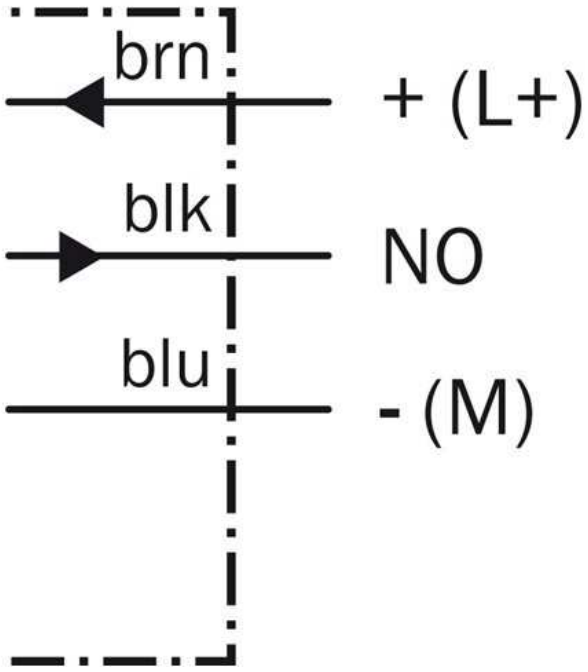

## Dimensional drawing




|1| Connection
|2| LED indicator 270°
|3| Threaded mounting hole M3


© SICK AG. Subject to change without notice.

## Connection diagram





© SICK AG. Subject to change without notice.

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.