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# Inductive proximity sensors
# Rectangular housing, IQ08

IQ08-02BP0KW2S




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# Rectangular housing, IQ08

**Model Name** > IQ08-02BPOKW2S
**Part No.** > 1055491



## 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: | 2 mm |
| Assured sensing range Sa: | 1.62 mm |
| Installation type: | Flush |
| Switching frequency: | 2,000 Hz |
| Output type: | PNP |
| Output function: | NC |
| Electrical wiring: | DC 3-wire |
| Enclosure rating: | IP 67<br>IP 68 1) |
| Connection type: | Cable, 3-wire, 2 m |


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[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

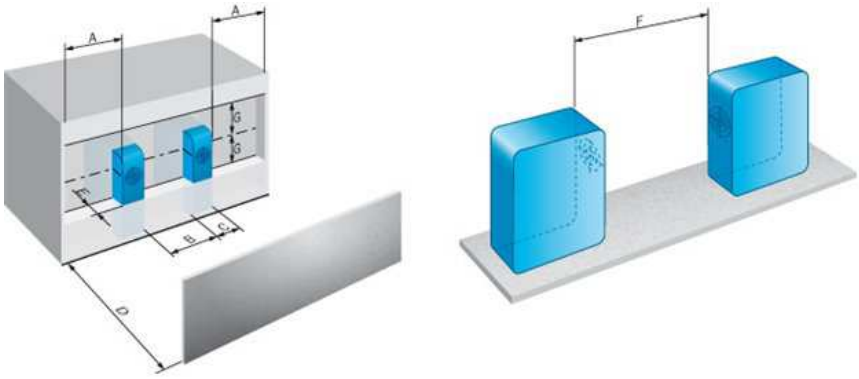
| | |
|---|---|
| Note: | The values are reference values which may vary |
| Stainless steel (V2A, 304): | 0.7 |
| Copper (Cu): | 0.2 |
| Aluminum (Al): | 0.3 |
| Brass (Br): | 0.3 |

## Installation note

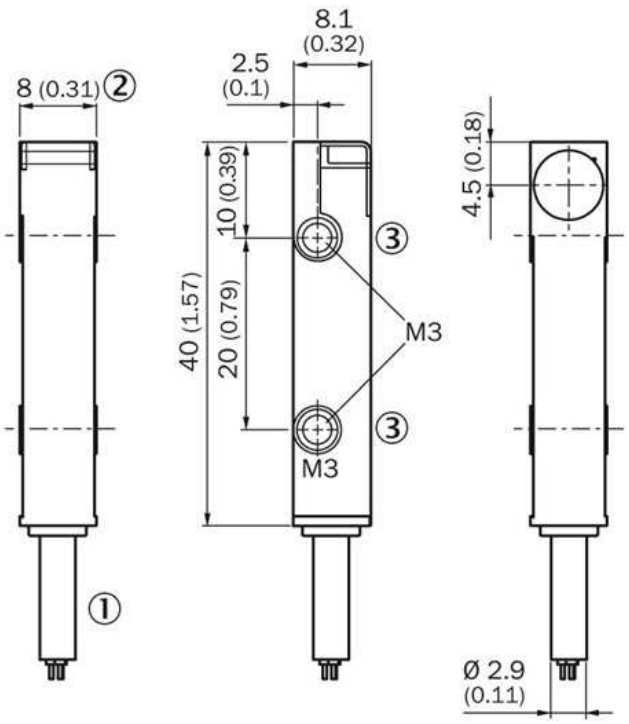
| | |
|---|---|
| A: | 0 mm |
| B: | 10 mm |
| C: | 8 mm |
| D: | 6 mm |
| E: | 0 mm |
| F: | 16 mm |
| G: | 0 mm |
| Remark: | Associated graphic see "Installation" |


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## Installation note



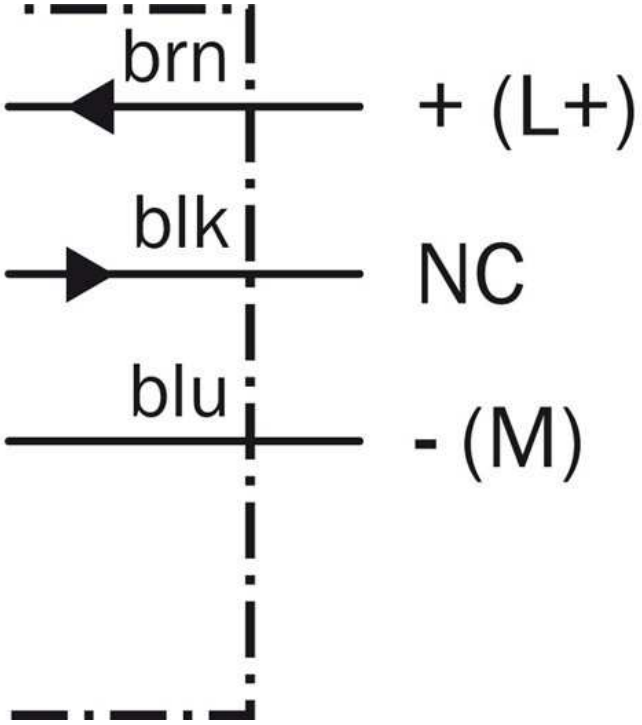

## Dimensional drawing




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


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**Connection diagram**





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A4 4c int43

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