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# Inductive proximity sensors
# Rectangular housing, IQ10

IQ10-03BNSKT0S




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# Rectangular housing, IQ10

**Model Name** > IQ10-03BNSKT0S
**Part No.** > 1055455



### At a glance

- Tough VISTALTM housing
- SICK-ASIC technology
- 270° status display with extra-bright LED
- Extended sensing range of up to 6 mm
- Hotmelt molding
- Withstands high installation and tightening torque
- 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): | 10 mm x 16 mm x 28 mm |
| Sensing range Sn: | 3 mm |
| Assured sensing range Sa: | 2.43 mm |
| Installation type: | 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: | Connector M8, 3-pin |


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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 |
| 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 |
| Housing material: | Plastic, VISTAL |
| Sensing face material: | Plastic, VISTAL |
| Tightening torque, max.: | ≤ 1 Nm |

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

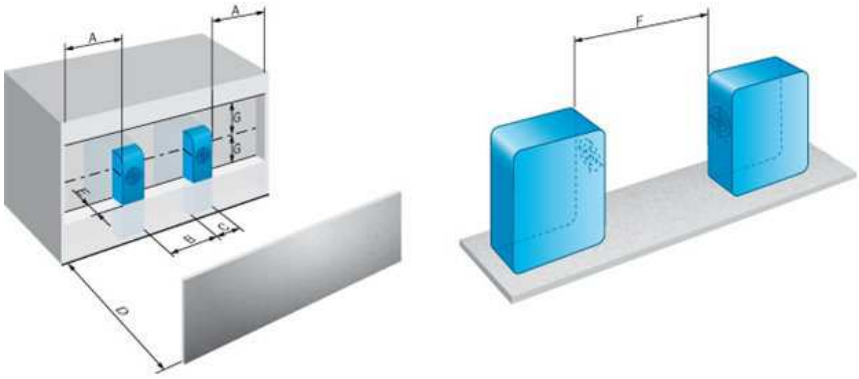
## Reduction factors

| | |
|---|---|
| Note: | The values are reference values which may vary |
| Stainless steel (V2A, 304): | 0.75 |
| Copper (Cu): | 0.35 |
| Aluminum (Al): | 0.4 |
| Brass (Br): | 0.5 |

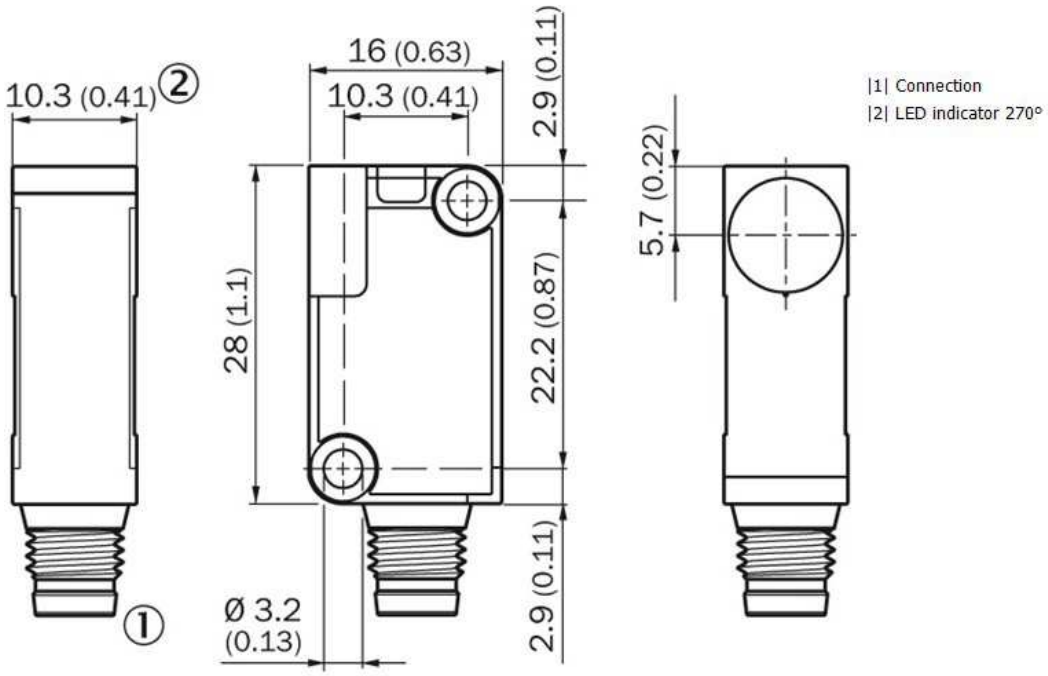
## Installation note

| | |
|---|---|
| A: | 0 mm |
| B: | 10 mm |
| C: | 10.3 mm |
| D: | 9 mm |
| E: | 0 mm |
| F: | 24 mm |
| G: | 0 mm |
| Remark: | Associated graphic see "Installation" |

## Installation note



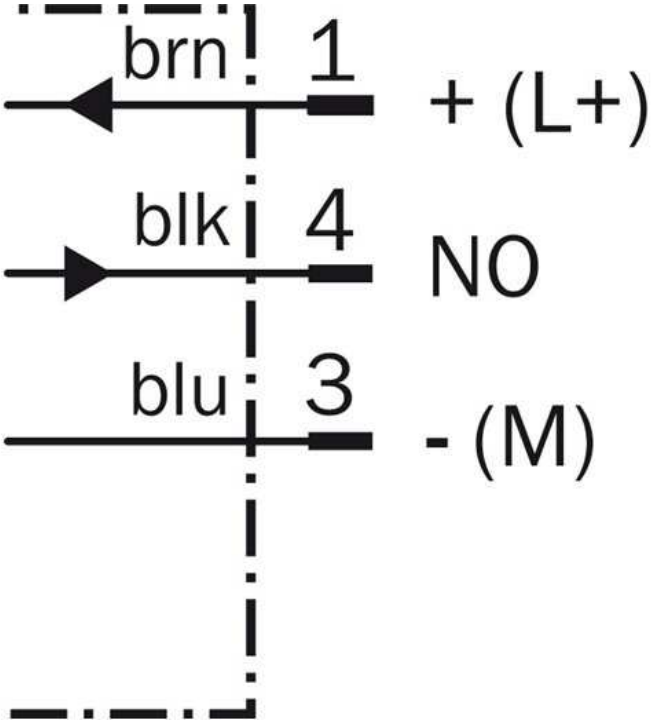

## Dimensional drawing





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**Connection diagram**





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