

IQ06-03BP0KU5S

IQM

INDUCTIVE PROXIMITY SENSORS

SICK
Sensor Intelligence.



Ordering information

| Type | Part no. |
|----------------|----------|
| IQ06-03BP0KU5S | 6067958 |

Other models and accessories → www.sick.com/IQM



Detailed technical data

Features

| | |
|--|----------------------|
| Housing | Rectangular |
| Dimensions (W x H x D) | 10 mm x 30 mm x 6 mm |
| Sensing range S_n | 3 mm |
| Safe sensing range S_a | 2.43 mm |
| Installation type | Flush |
| Switching frequency | 1,000 Hz |
| Connection type | Cable, 3-wire, 5 m |
| Switching output | PNP |
| Output function | NC |
| Electrical wiring | DC 3-wire |
| Enclosure rating | IP67 ¹⁾ |

¹⁾ According to EN 60529.

Mechanics/electronics

| | |
|--|---------------------------|
| Supply voltage | 10 V DC ... 30 V DC |
| Ripple | ≤ 10 % ¹⁾ |
| Voltage drop | < 1.5 V ²⁾ |
| Time delay before availability | ≤ 10 ms |
| Hysteresis | 1 % ... 15 % |
| Reproducibility | ± 1 % ^{3) 4)} |
| Temperature drift (of S_r) | ± 10 % |
| EMC | According to EN 60947-5-2 |
| Continuous current I_a | ≤ 100 mA |
| Cable material | PUR |
| Conductor size | 0.14 mm ² |

¹⁾ Of V_s .

²⁾ At I_a max.

³⁾ U_b and T_a constant.

⁴⁾ Of S_r .

| | |
|---------------------------------------|----------------------------------|
| Cable diameter | Ø 3 mm |
| Short-circuit protection | ✓ |
| Shock and vibration resistance | 30 g, 11 ms / 10 ... 55 Hz, 1 mm |
| Ambient operating temperature | -25 °C ... +70 °C |
| Housing material | Plastic, PA6 |
| Sensing face material | Plastic, PA6 |
| Tightening torque, max. | 0.6 Nm |

1) Of V_S .

2) At I_a max.

3) U_b and T_a constant.

4) Of S_r .

Safety-related parameters

| | |
|-------------------------------------|-------------|
| MTTF_D | 1,328 years |
| DC_{avg} | 0% |
| T_M (mission time) | 20 years |

Reduction factors

| | |
|-----------------------------------|--|
| Note | The values are reference values which may vary |
| Stainless steel (V2A, 304) | Approx. 0.7 |
| Aluminum (Al) | Approx. 0.4 |
| Copper (Cu) | Approx. 0.3 |
| Brass (Br) | Approx. 0.4 |

Installation note

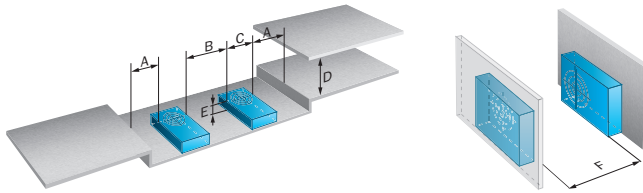
| | |
|---------------|---------------------------------------|
| Remark | Associated graphic see "Installation" |
| A | 1.5 mm |
| B | 20 mm |
| C | 10 mm |
| D | 9 mm |
| E | 0 mm |
| F | 30 mm |

Classifications

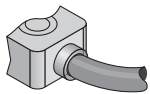
| | |
|---------------------|----------|
| eCl@ss 5.0 | 27270101 |
| eCl@ss 5.1.4 | 27270101 |
| eCl@ss 6.0 | 27270101 |
| eCl@ss 6.2 | 27270101 |
| eCl@ss 7.0 | 27270101 |
| eCl@ss 8.0 | 27270101 |
| eCl@ss 8.1 | 27270101 |
| eCl@ss 9.0 | 27270101 |
| eCl@ss 10.0 | 27270101 |
| eCl@ss 11.0 | 27270101 |
| eCl@ss 12.0 | 27274001 |

| | |
|-----------------------|----------|
| ETIM 5.0 | EC002714 |
| ETIM 6.0 | EC002714 |
| ETIM 7.0 | EC002714 |
| ETIM 8.0 | EC002714 |
| UNSPSC 16.0901 | 39122230 |

Installation note

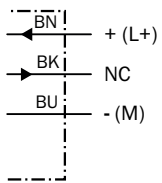


Connection type



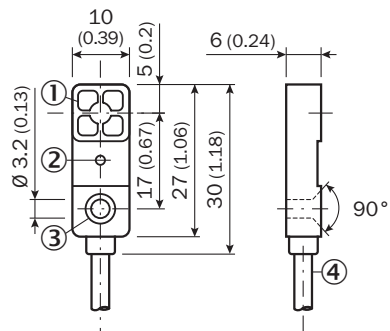
Connection diagram

Cd-003



Dimensional drawing (Dimensions in mm (inch))

IQ06



- ① Sensing face
- ② Function indicator (red)
- ③ Fixing hole
- ④ Connection

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

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