



IQ08-02BPSKT0SS02

INDUCTIVE PROXIMITY SENSORS







Ordering information

| Туре | Part no. |
|-------------------|----------|
| IQ08-02BPSKT0SS02 | 1062449 |

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



Detailed technical data

Features

| Housing | Rectangular |
|-----------------------------------|--------------------------------|
| Dimensions (W x H x D) | 8 mm x 40 mm x 8 mm |
| Sensing range S _n | 2 mm |
| Safe sensing range S _a | 1.62 mm |
| Installation type | Flush |
| Switching frequency | 2,000 Hz |
| Connection type | Connector M8, 3-pin |
| Switching output | PNP |
| Output function | NO |
| Electrical wiring | DC 3-wire |
| Enclosure rating | IP67, IP68 ¹⁾ |
| Special characteristic | Different oscillator frequency |

¹⁾ According to EN 60529.

Mechanics/electronics

| ,, | |
|--------------------------------|------------------------|
| Supply voltage | 10 V DC 30 V DC |
| Ripple | ≤ 10 % ¹⁾ |
| Voltage drop | \leq 2 V $^{2)}$ |
| Time delay before availability | ≤ 100 ms |
| Hysteresis | 5 % 15 % |
| Reproducibility | ≤ 2 % ^{3) 4)} |

¹⁾ Of Va

²⁾ At L may

 $^{^{\}rm 3)}$ Supply voltage U_B and constant ambient temperature Ta.

⁴⁾ Of Sr.

| Temperature drift (of S _r) | ± 10 % |
|--|------------------------------|
| EMC | According to EN 60947-5-2 |
| Continuous current I _a | ≤ 200 mA |
| No load current | 10 mA |
| Short-circuit 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. | ≤ 1.5 Nm |
| UL File No. | NRKH.E348498 |

 $^{^{1)}}$ Of V_S.

Reduction factors

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

Installation note

| Remark | Associated graphic see "Installation" |
|--------|---------------------------------------|
| Α | 0 mm |
| В | 10 mm |
| c | 8 mm |
| D | 6 mm |
| E | 0 mm |
| F | 16 mm |
| G | 0 mm |

Classifications

| ECLASS 5.0 | 27270101 |
|--------------|----------|
| ECLASS 5.1.4 | 27270101 |
| ECLASS 6.0 | 27270101 |
| ECLASS 6.2 | 27270101 |
| ECLASS 7.0 | 27270101 |
| ECLASS 8.0 | 27270101 |
| ECLASS 8.1 | 27270101 |
| ECLASS 9.0 | 27270101 |
| ECLASS 10.0 | 27270101 |

²⁾ At I_a max.

 $^{^{\}rm 3)}$ Supply voltage $\rm U_B$ and constant ambient temperature Ta.

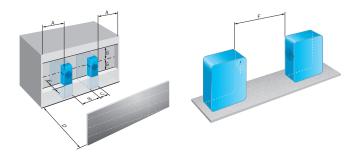
⁴⁾ Of Sr

IQ08-02BPSKT0SS02 | IQY

INDUCTIVE PROXIMITY SENSORS

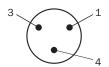
| ECLASS 11.0 | 27270101 |
|----------------|----------|
| ECLASS 12.0 | 27274001 |
| ETIM 5.0 | EC002714 |
| ETIM 6.0 | EC002714 |
| ETIM 7.0 | EC002714 |
| ETIM 8.0 | EC002714 |
| UNSPSC 16.0901 | 39122230 |

Installation note



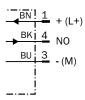
Connection type

Connector M8, 3-pin

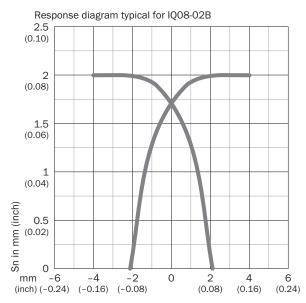


Connection diagram

Cd-002



Response diagram

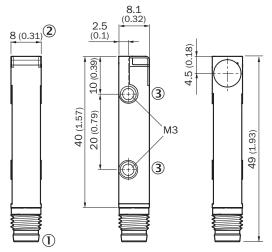


Distance of target edge to center of active face in mm (inch)

All dimensions in mm (inch)

Dimensional drawing (Dimensions in mm (inch))

IQ08, connector



- ① Connection
- ③ Threaded mounting hole M3

Recommended accessories

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

| | Brief description | Туре | Part no. |
|--------|--|------------------------|----------|
| Others | | | |
| | Connection type head A: Female connector, M8, 3-pin, straight, A-coded Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: 0.14 mm² 0.5 mm² | DOS-0803-G | 7902077 |
| | Connection type head A: Female connector, M8, 3-pin, angled, A-coded Description: Unshielded Connection systems: Solder connection Permitted cross-section: ≤ 0.25 mm² | DOS-0803-W | 7902078 |
| | Connection type head A: Female connector, M8, 3-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 3-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals | YF8U13- 020VA1XLEAX | 2095860 |
| | Connection type head A: Female connector, M8, 3-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 3-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals | YF8U13- 050VA1XLEAX | 2095884 |
| 3 | Connection type head A: Female connector, M8, 3-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 2 m, 3-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals | YG8U13- 020VA1XLEAX | 2096165 |
| 3 | Connection type head A: Female connector, M8, 3-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 3-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals | YG8U13- 050VA1XLEAX | 2096166 |

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For us, that is "Sensor Intelligence."

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