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Product data sheet




# IQ10-06NPSKWDSS07

## IQB

**INDUCTIVE PROXIMITY SENSORS**

SICK
Sensor Intelligence.

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# IQ10-06NPSKWDSS07 | IQB

INDUCTIVE PROXIMITY SENSORS



## Ordering information

| Type | Part no. |
|---|---|
| IQ10-06NPSKWDSS07 | 1062439 |

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

## Detailed technical data

### Features

| | |
|---|---|
| **Housing** | Rectangular |
| **Dimensions (W x H x D)** | 10 mm x 28 mm x 16 mm |
| **Sensing range $S_n$** | 6 mm |
| **Safe sensing range $S_a$** | 4.86 mm |
| **Installation type** | Non-flush |
| **Switching frequency** | 2,000 Hz |
| **Connection type** | Cable, 3-wire, 6 m |
| **Switching output** | PNP |
| **Output function** | NO |
| **Electrical wiring** | DC 3-wire |
| **Enclosure rating** | IP68 [1] |

[1] According to EN 60529.

### Mechanics/electronics

| | |
|---|---|
| **Supply voltage** | 10 V DC ... 30 V DC |
| **Ripple** | ≤ 10 % [1] |
| **Voltage drop** | ≤ 3 V [2] |
| **Time delay before availability** | ≤ 100 ms |
| **Hysteresis** | 5 % ... 15 % |
| **Reproducibility** | ≤ 2 % [3] [4] |
| **Temperature drift (of $S_r$)** | ± 10 % |

[1] Of $V_S$.
[2] At $I_a$ max.
[3] Ub and Ta constant.
[4] Of Sr.

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| | |
|---|---|
| **EMC** | According to EN 60947-5-2 |
| **Continuous current $I_a$** | ≤ 200 mA |
| **Cable material** | PVC |
| **Conductor size** | 0.25 mm² |
| **Cable diameter** | Ø 3.7 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 |
| **Housing material** | Plastic, VISTAL® |
| **Sensing face material** | Plastic, VISTAL® |
| **Tightening torque, max.** | ≤ 1 Nm |

[1] Of $V_S$.
[2] At $I_a$ max.
[3] Ub and Ta constant.
[4] Of Sr.

## Reduction factors

| | |
|---|---|
| **Note** | The values are reference values which may vary |
| **Stainless steel (V2A, 304)** | 0.7 |
| **Aluminum (Al)** | 0.5 |
| **Copper (Cu)** | 0.35 |
| **Brass (Br)** | 0.5 |

## Installation note

| | |
|---|---|
| **Remark** | Associated graphic see "Installation" |
| **A** | 7 mm |
| **B** | 30 mm |
| **C** | 10.3 mm |
| **D** | 18 mm |
| **E** | 8 mm |
| **F** | 48 mm |
| **G** | 12 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 |

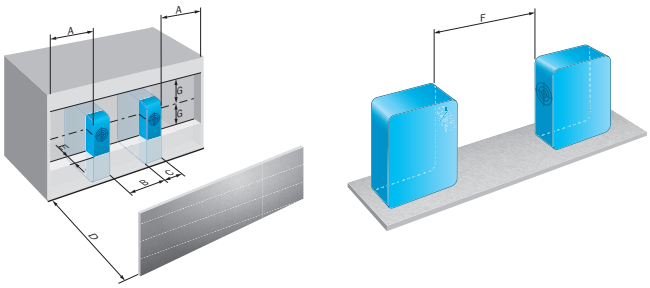
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INDUCTIVE PROXIMITY SENSORS

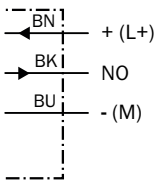
| | |
|---|---|
| **eCl@ss 10.0** | 27270101 |
| **eCl@ss 11.0** | 27270101 |
| **eCl@ss 12.0** | 27274001 |
| **ETIM 5.0** | EC002714 |
| **ETIM 6.0** | EC002714 |
| **ETIM 7.0** | EC002714 |
| **ETIM 8.0** | EC002714 |
| **UNSPSC 16.0901** | 39122230 |

## Installation note




## Connection diagram

Cd-001

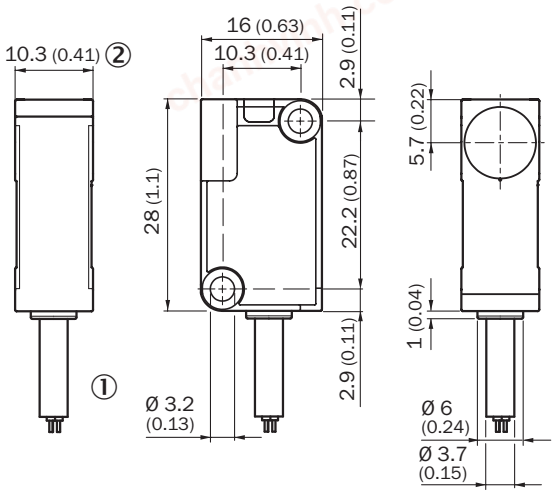


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## Dimensional drawing (Dimensions in mm (inch))

IQ10, cable




① Connection
② LED indicator 270°

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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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