

SICK.COM



DATA SHEET

IQ10-06NPS-KT1

IQ Standard
Inductive proximity sensors

SICK Sensor Intelligence



INDUCTIVE PROXIMITY SENSORS

IQ10-06NPS-KT1

ORDERING INFORMATION

Type	part no.
IQ10-06NPS-KT1	7900209

Further device versions and accessories at www.sick.com/IQ_Standard

DETAILED TECHNICAL DATA

FEATURES

Housing	Rectangular
Dimensions (W x H x D)	10 mm x 16 mm x 28 mm
Sensing range S_n	6 mm
Installation type	Non-flush
Switching frequency	1,000 Hz
Connection type	Connector M8, 3-pin
Switching output	PNP
Output function	NO
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⁾
Current consumption	10 mA ³⁾
Time delay before availability	≤ 100 ms
Hysteresis	1 % ... 20 %

¹⁾ Of V_s .

²⁾ At I_a max.

³⁾ Without load.

⁴⁾ $U_b = 20\text{ V DC} \dots 30\text{ V DC}$, $T_a = 23\text{ °C} \pm 5\text{ °C}$.

⁵⁾ Of S_r .

Reproducibility	$\leq 5\%$ ^{4) 5)}
Temperature drift (of S _r)	$\pm 10\%$
EMC	According to EN 60947-5-2
Continuous current I _a	$\leq 300\text{ mA}$
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 ... +70 °C
Housing material	Plastic
Sensing face material	Plastic, PA

¹⁾ Of V_s.

²⁾ At I_a max.

³⁾ Without load.

⁴⁾ U_b = 20 V DC ... 30 V DC, T_a = 23 °C ± 5 °C.

⁵⁾ Of S_r.

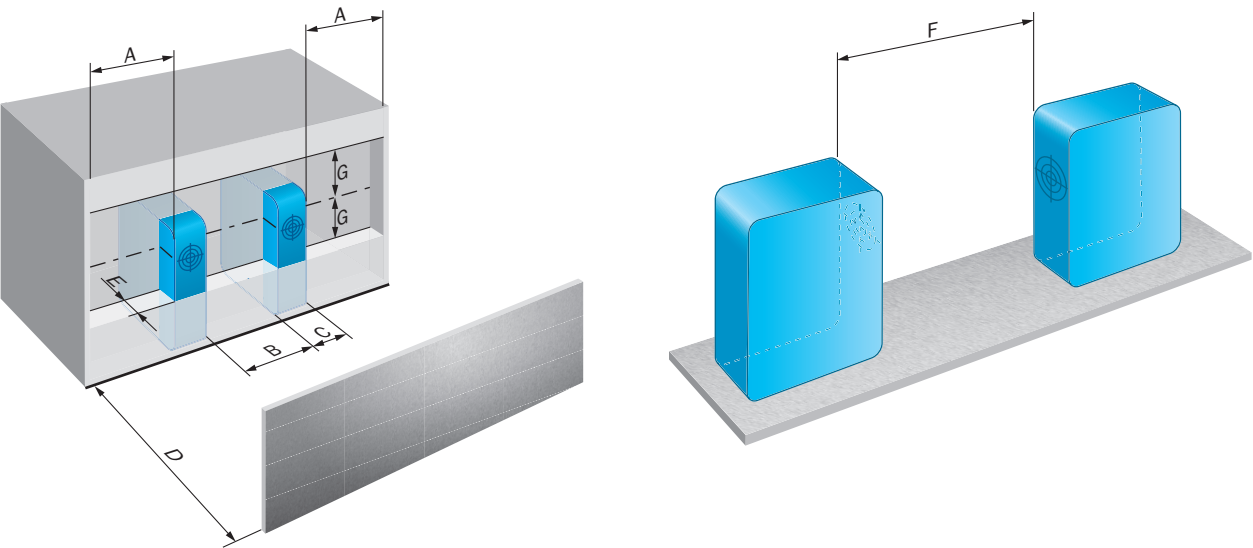
INSTALLATION NOTE

Remark	Associated graphic see "Installation"
A	7 mm
B	20 mm
C	10 mm
D	18 mm
E	8 mm
F	48 mm
G	12 mm

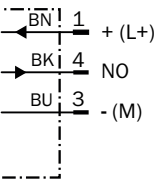
CLASSIFICATIONS

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
ETIM 5.0	EC002714
ETIM 6.0	EC002714
UNSPSC 16.0901	39122230

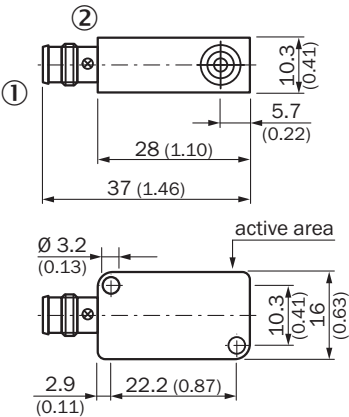
INSTALLATION NOTE



CONNECTION DIAGRAM CD-002



DIMENSIONAL DRAWING



Dimensions in mm (inch)

- ① Connection
- ② Indication LED

Further information as well as suitable accessories, example applications and downloads such as CAD di-
mensional models, operating instructions and software can be found at www.sick.com/7900209



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SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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