



DATA SHEET

IQ08-04NPSKRDSS15

IQY
Inductive proximity sensors

SICK

Sensor Intelligence



Illustration may differ

INDUCTIVE PROXIMITY SENSORS

IQ08-04NPSKRDSS15

ORDERING INFORMATION

Type	part no.
IQ08-04NPSKRDSS15	1118197

Further device versions and accessories at 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	4 mm
Safe sensing range S_a	3.24 mm
Installation type	Non-flush
Switching frequency	2,000 Hz
Connection type	Cable with plug M8, 3-pin, with knurled nut, 0.26 m
Switching output	PNP
Switching output detail	PNP
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP67 ¹⁾ IP68

¹⁾ According to EN 60529.

MECHANICS/ELECTRONICS

Supply voltage	10 V DC ... 30 V DC
Ripple	$\leq 10\%$ ¹⁾
Voltage drop	$\leq 2\text{ V}$ ²⁾
Time delay before availability	$\leq 100\text{ ms}$

¹⁾ Of V_s .

²⁾ At I_a max.

³⁾ Supply voltage U_s and constant ambient temperature T_a .

⁴⁾ Of S_r .

Hysteresis	5 % ... 15 %
Reproducibility	$\leq 2\%$ ³⁾ ⁴⁾
Temperature drift (of S _r)	$\pm 10\%$
EMC	According to EN 60947-5-2
Continuous current I _s	$\leq 200\text{ mA}$
No load current	10 mA
Cable material	PVC
Cable diameter	Ø 2.9 mm
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.	$\leq 1.5\text{ Nm}$
UL File No.	NRKH.E348498

¹⁾ Of V_s.²⁾ At I_s max.³⁾ Supply voltage U_s and constant ambient temperature Ta.⁴⁾ Of S_r.

SAFETY-RELATED PARAMETERS

MTTF _D	1,775 years
DC _{avg}	0 %

REDUCTION FACTORS

Note	The values are reference values which may vary
Stainless steel (V2A, 304)	Approx. 0.7
Aluminum (Al)	Approx. 0.5
Copper (Cu)	Approx. 0.4
Brass (Br)	Approx. 0.5

INSTALLATION NOTE

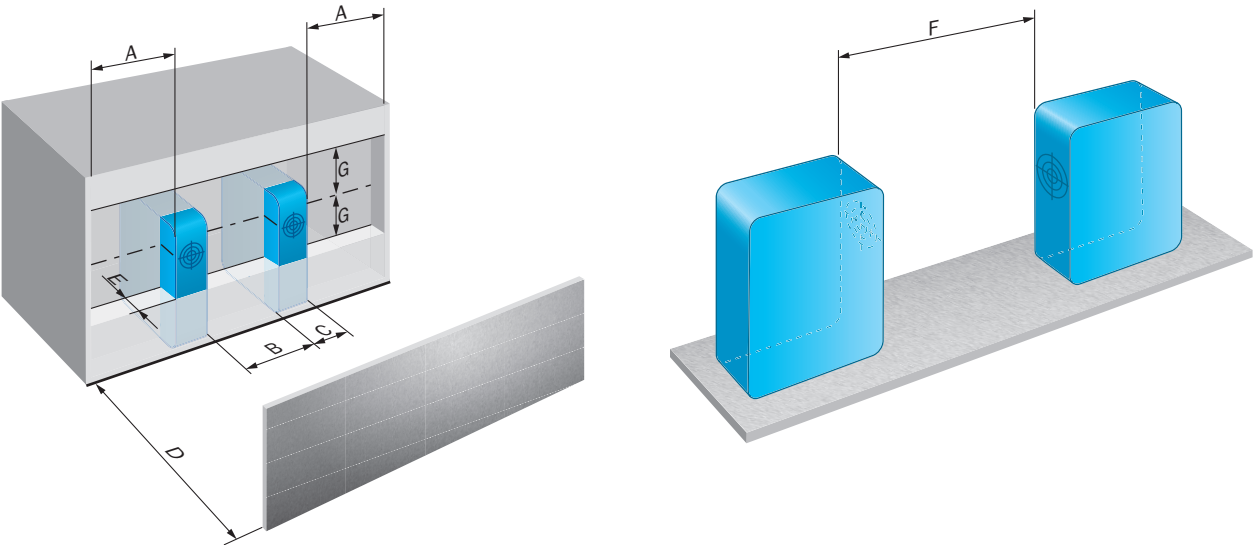
Remark	Associated graphic see "Installation note"
A	4 mm
B	24 mm
C	8 mm
D	12 mm
E	20 mm
F	32 mm
G	8 mm

CERTIFICATES

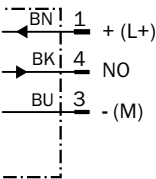
EU declaration of conformity	✓
UK declaration of conformity	✓

ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China RoHS	✓
China Compulsory Product Certification (CCC) exempt	✓
cULus certificate	✓

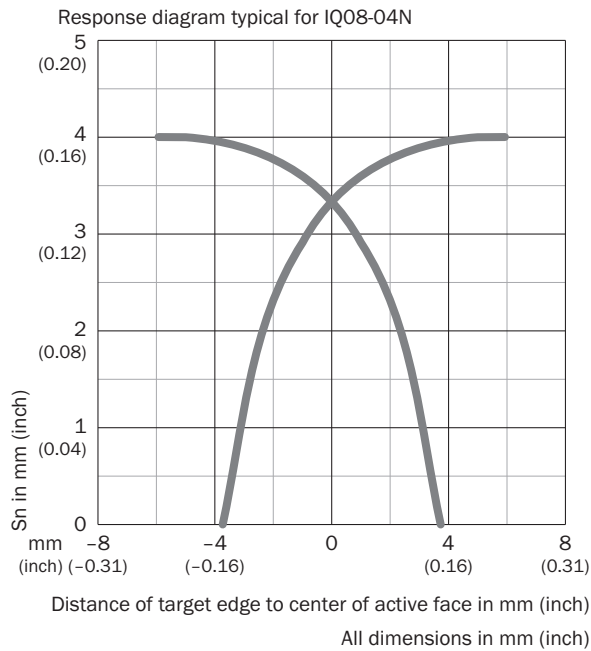
INSTALLATION NOTE



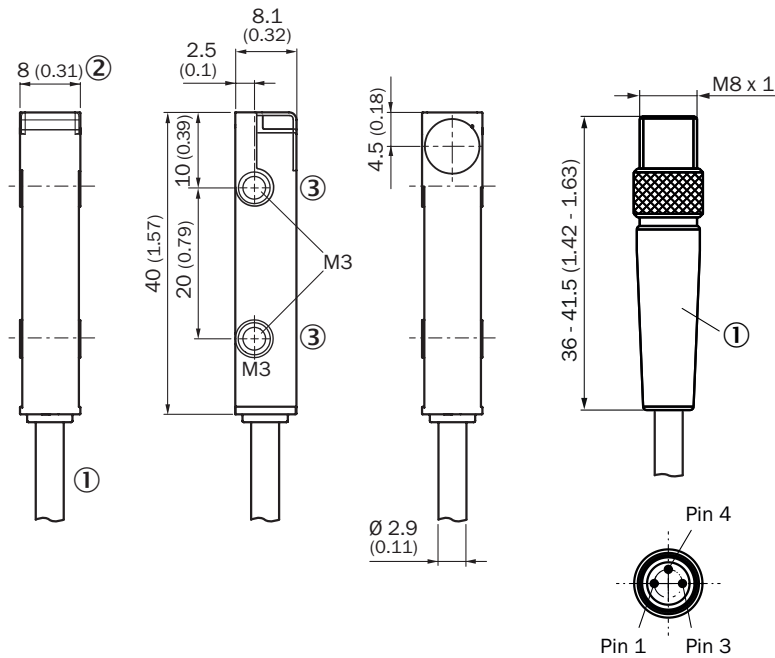
CONNECTION DIAGRAM CD-002



RESPONSE DIAGRAM



DIMENSIONAL DRAWING IQ08, CABLE WITH MALE CONNECTOR



Dimensions in mm (inch)

- ① Connection
- ② LED indicator 270°
- ③ Threaded mounting hole M3

Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/1118197



SICK AG
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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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