



DATA SHEET

IQ40-40NPPKC0KS06

IQG
Inductive proximity sensors

SICK

Sensor Intelligence



INDUCTIVE PROXIMITY SENSORS

IQ40-40NPPKC0KS06

ORDERING INFORMATION

Type	part no.
IQ40-40NPPKC0KS06	1138519

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



DETAILED TECHNICAL DATA

FEATURES

Housing	Rectangular
Housing	Short-body
Dimensions (W x H x D)	40 mm x 40 mm x 66 mm
Sensing range S_n	40 mm
Safe sensing range S_a	32.4 mm
Installation type	Non-flush
Switching frequency	4.5 Hz
Connection type	Male connector M12, 4-pin
Switching output	PNP
Switching output detail	PNP
Output function	Complementary
Electrical wiring	DC 4-wire
Enclosure rating	IP67, IP68, IP69K
Special applications	Difficult application conditions
Items supplied	Push-lock mounting system (1x)

MECHANICS/ELECTRONICS

Supply voltage	10 V DC ... 30 V DC
Ripple	$\leq 10 \text{ V}_{pp}^{1)}$
Voltage drop	$\leq 2 \text{ V}$
Time delay before availability	$\leq 200 \text{ ms}$
Hysteresis	$3 \% \dots 15 \%^{2)}$

¹⁾ Of U_b .

²⁾ Of S_n .

³⁾ Reference voltage: 50 V DC.

Reproducibility	≤ 6 %
Temperature drift (of S _r)	± 10 %
Continuous current I _a	≤ 200 mA
No load current	12.5 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 ... +85 °C
Ambient temperature, storage	-40 °C ... +85 °C
Housing material	Plastic, PA 66
Sensing face material	Plastic, PA 66
Tightening torque, max.	1.8 Nm
Protection class	II ³⁾
UL File No.	E348498

¹⁾ Of Ub.²⁾ Of S_r.³⁾ Reference voltage: 50 V DC.

SAFETY-RELATED PARAMETERS

MTTF _D	1,125 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. 0.8
Aluminum (Al)	Approx. 0.34
Copper (Cu)	Approx. 0.27
Brass (Br)	Approx. 0.38

INSTALLATION NOTE

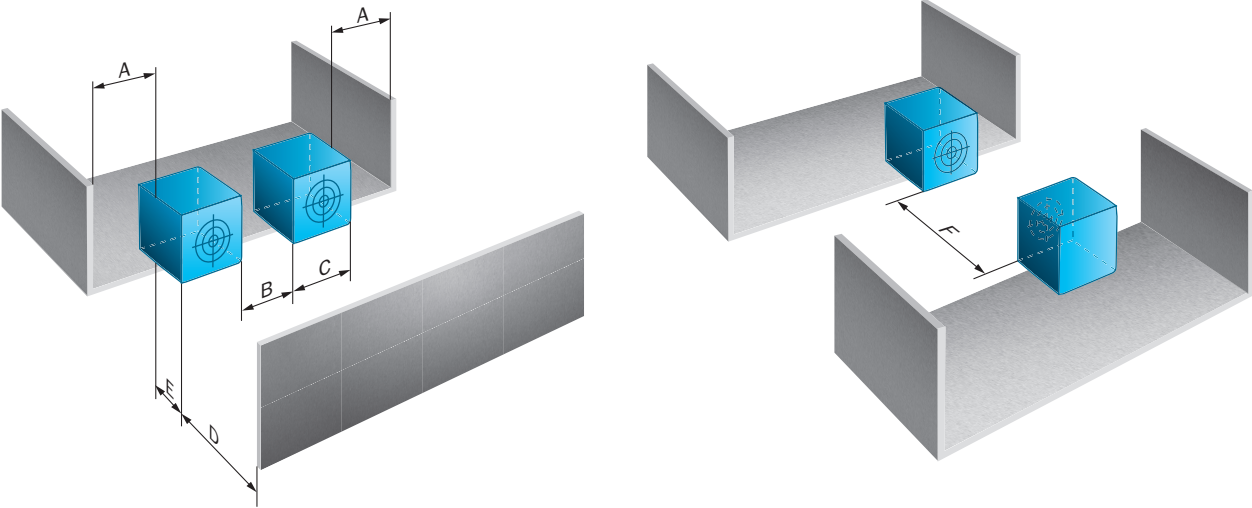
Remark	Associated graphic see "Installation"
A	42 mm
B	150 mm
C	40 mm
D	120 mm
E	40 mm
F	150 mm

CERTIFICATES

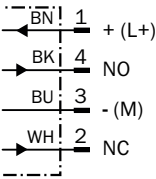
EU declaration of conformity	✓
UK declaration of conformity	✓
ACMA declaration of conformity	✓
Moroccan declaration of conformity	✓
China RoHS	✓

China Compulsory Product Certification (CCC) exempt	✓
cULus certificate	✓

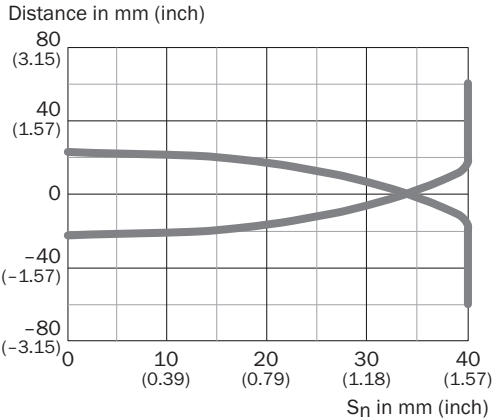
INSTALLATION NOTE



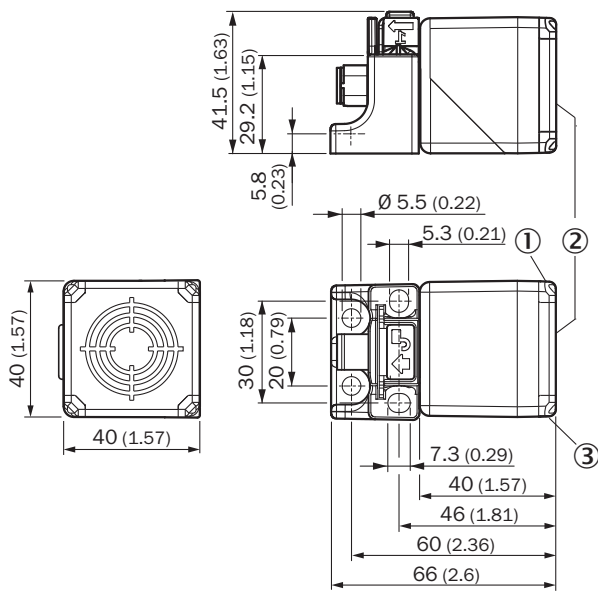
CONNECTION DIAGRAM CD-009



RESPONSE DIAGRAM



DIMENSIONAL DRAWING IQG SHORT-BODY HOUSING



Dimensions in mm (inch)

① LED output state, yellow

② Sensing face

③ operational status LED, green

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/1138519



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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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