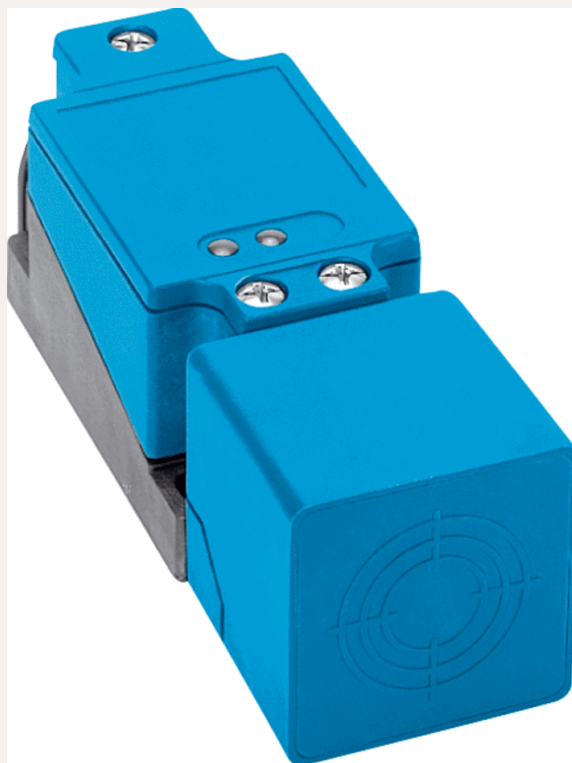




DATA SHEET

IQ40-15BPP-KK1

IQ Standard
Inductive proximity sensors

SICK

Sensor Intelligence



INDUCTIVE PROXIMITY SENSORS

IQ40-15BPP-KK1

ORDERING INFORMATION

Type	part no.
IQ40-15BPP-KK1	6025814

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

DETAILED TECHNICAL DATA

FEATURES

Housing	Rectangular
Housing	Standard
Dimensions (W x H x D)	40 mm x 40 mm x 118 mm
Sensing range S_n	15 mm
Safe sensing range S_a	12.15 mm
Installation type	Flush
Switching frequency	150 Hz
Connection type	Cable gland
Switching output	PNP
Output function	Complementary
Electrical wiring	DC 4-wire
Enclosure rating	IP68 ¹⁾

¹⁾ According to EN 60529.

MECHANICS/ELECTRONICS

Supply voltage	10 V DC ... 60 V DC
Voltage drop	$\leq 2.8 \text{ V}$ ¹⁾
Temperature drift (of S_n)	$\pm 10 \%$
EMC	According to EN 60947-5-2
Continuous current I_a	$\leq 200 \text{ mA}$
Cable gland clamping area	M20 1.5
Wire size	$\leq 2.5 \text{ mm}^2$
Short-circuit protection	✓
Reverse polarity protection	✓

¹⁾ With $I_a \text{ max}$ and $U_b 60 \text{ V}$.

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, PBT

¹⁾ With I_a max and U_b 60 V.

SAFETY-RELATED PARAMETERS

MTTF ₀	620 years
DC _{avg}	0 %

REDUCTION FACTORS

Note	The values are reference values which may vary
Stainless steel (V2A, 304)	Approx. 0.75
Aluminum (Al)	Approx. 0.3
Copper (Cu)	Approx. 0.25

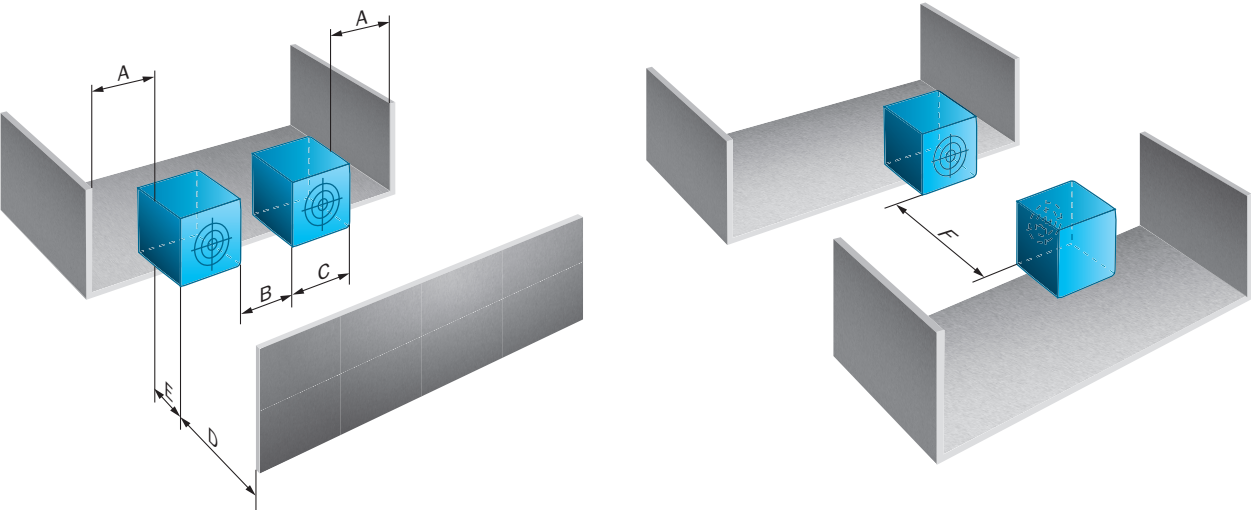
INSTALLATION NOTE

Remark	Associated graphic see "Installation"
A	0 mm
B	60 mm
C	40 mm
D	45 mm
E	0 mm
F	80 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
ECl@ss 10.0	27270101
ECl@ss 11.0	27270101
ETIM 5.0	EC002714
ETIM 6.0	EC002714
ETIM 7.0	EC002714
ETIM 8.0	EC002714
UNSPSC 16.0901	39122230

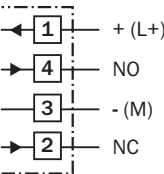
INSTALLATION NOTE



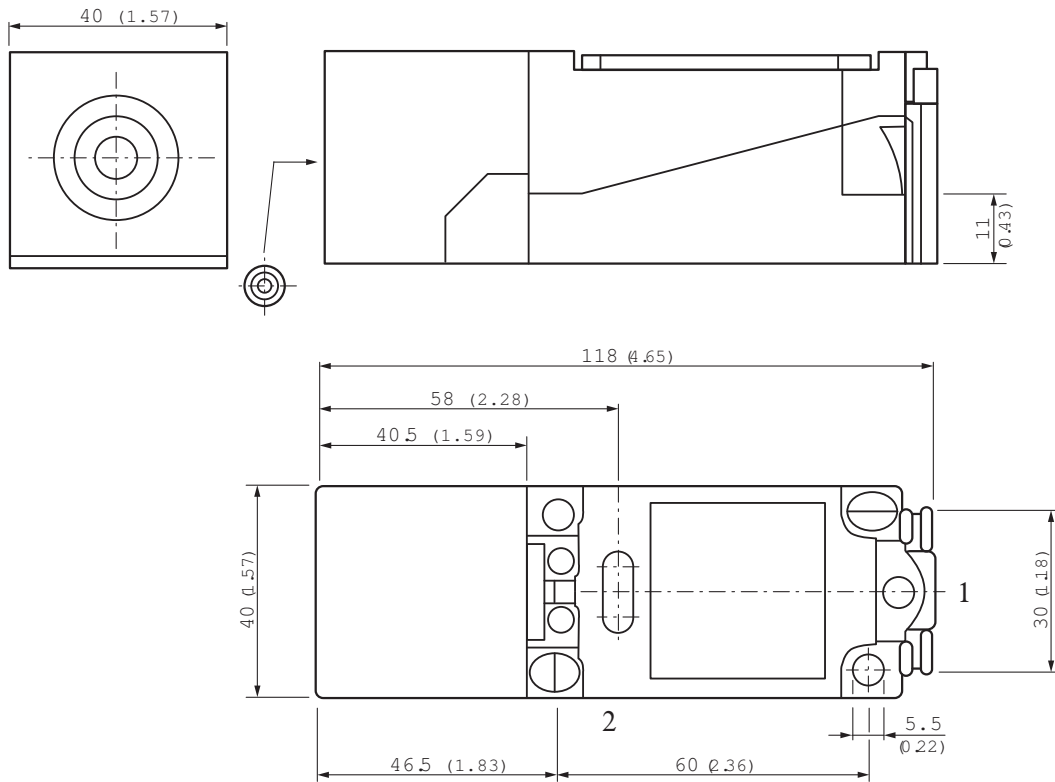
CONNECTION TYPE



CONNECTION DIAGRAM CD-030



DIMENSIONAL DRAWING



Dimensions in mm (inch)

- ① Connection
- ② Display LED

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/6025814



SICK AG
WALDKIRCH
GERMANY
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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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