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DATA SHEET

IQ04-1B5PSKW2S

IQM
Inductive proximity sensors

SICK Sensor Intelligence



Illustration may differ

INDUCTIVE PROXIMITY SENSORS

IQ04-1B5PSKW2S

ORDERING INFORMATION

Type	part no.
IQ04-1B5PSKW2S	6042017

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

DETAILED TECHNICAL DATA

FEATURES

Housing	Rectangular
Dimensions (W x H x D)	8 mm x 16 mm x 4 mm
Sensing range S_n	1.5 mm
Safe sensing range S_a	1.215 mm
Installation type	Flush
Switching frequency	600 Hz
Connection type	Cable, 3-wire, 2 m
Switching output	PNP
Switching output detail	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

[1] Of V_S.

[2] At I_a max.

[3] Supply voltage U_B and constant ambient temperature Ta.

[4] Of Sr.

Ripple	≤ 10 % [1]
Voltage drop	< 1.5 V [2]
Time delay before availability	≤ 10 ms
Hysteresis	1 % ... 15 %
Reproducibility	± 1 % [3] [4]
Temperature drift (of S_r)	± 10 %
EMC	According to EN 60947-5-2
Continuous current I_a	≤ 100 mA
Cable material	PVC
Conductor size	0.09 mm²
Cable diameter	Ø 2.5 mm
Short-circuit protection	✓
Shock and vibration resistance	30 g, 11 ms / 10 ... 55 Hz, 1 mm
Ambient operating temperature	–25 °C ... +70 °C
Housing material	Plastic, PA6
Sensing face material	Plastic, PA6
Tightening torque, max.	≤ 0.06 Nm

[1] Of V_s.

[2] At I_a max.

[3] Supply voltage U_B and constant ambient temperature Ta.

[4] Of Sr.

SAFETY-RELATED PARAMETERS

$MTTF_D$	1,328 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. 0.7
Aluminum (Al)	Approx. 0.4
Copper (Cu)	Approx. 0.3
Brass (Br)	Approx. 0.4

INSTALLATION NOTE

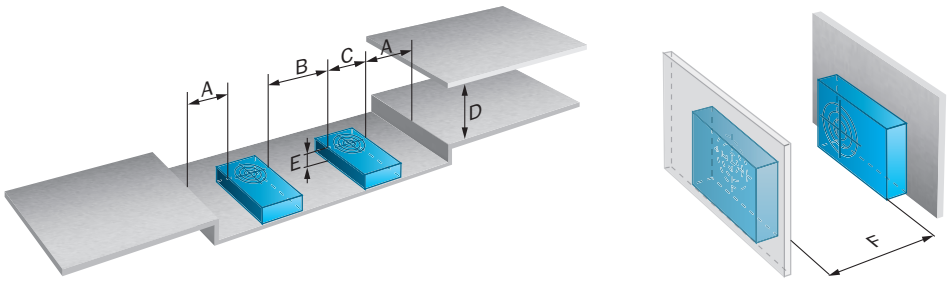
Remark	Associated graphic see "Installation"
A	0 mm
B	16 mm
C	8 mm
D	4.5 mm
E	0 mm
F	24 mm

CERTIFICATES

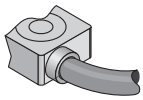
EU declaration of conformity	✓

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

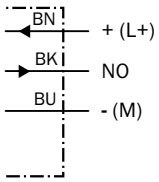
INSTALLATION NOTE



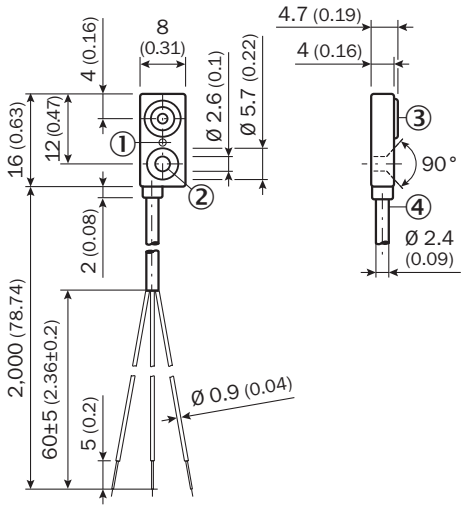
CONNECTION TYPE



CONNECTION DIAGRAM CD-001



DIMENSIONAL DRAWING IQ04



Dimensions in mm (inch)
① Function indicator (red)
② fixing hole
③ Sensing face
④ Connection

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/6042017

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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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