

ONLINE DATA SHEET
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Inductive proximity sensors
Rectangular housing, IQ04

IQ04-1B5NOKW2S



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Rectangular housing, IQ04

Model Name > IQ04-1B5NOKW2S
Part No. > 6042020





At a glance

- Flat, compact design
- Long sensing distance up to 1.5 mm
- Easily visible indication LEDs
- Available in a plastic housing
- Dimensions: 8 mm x 16 mm x 4 mm

Your benefits

- Reduced mechanical damage due to space-saving flat housing, which does not protrude from sensor
- Time-saving simple installation with one or two screws
- No restrictions on machine design

Features

Design:	Rectangular
Dimensions (W x H x D):	8 mm x 16 mm x 4 mm
Sensing range Sn:	1.5 mm
Assured sensing range Sa:	1.215 mm
Installation type:	Flush
Switching frequency:	600 Hz
Output type:	NPN
Output function:	NC
Electrical wiring:	DC 3-wire
Enclosure rating:	IP 67 [1]
Electrical connection:	Cable, 3-wire, 2 m

[1] According to EN 60529

Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC
Residual ripple:	≤ 10 % [1]
Voltage drop:	< 1.5 V [2]
Power consumption:	10 mA [3]
Time delay before availability:	≤ 10 ms
Hysteresis:	1 % ... 15 %
Repeatability::	± 1 % [4] [5]
Temperature drift (of Sr):	± 10 %

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EMC:	According to EN 60947-5-2
Output current Ia:	100 mA
Cable material:	PVC
Conductor cross-section:	0.09 mm²
Cable diameter:	2.5 mm
Short-circuit protection:	✓
Shock and vibration resistance:	30 g, 11 ms／10 ... 55 Hz, 1 mm
Ambient temperature operation:	-25 °C ... 70 °C
Housing material:	Plastic
Sensing face material:	Plastic, PA 6
Tightening torque, max.:	0.06 Nm

[1] Of V_S [2] At I_a max [3] Without load [4] Ub and Ta constant [5] Of Sr

Reduction factors

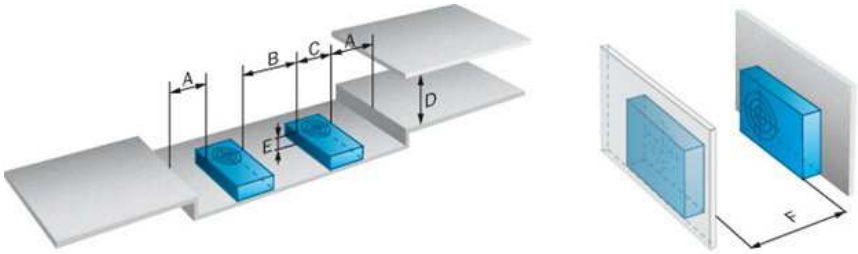
Note:	The values are reference values which may vary
Stainless steel (V2A, 304):	Ca. 0.7
Copper (Cu):	Ca. 0.3
Aluminum (Al):	Ca. 0.4
Brass (Br):	Ca. 0.4

Installation note

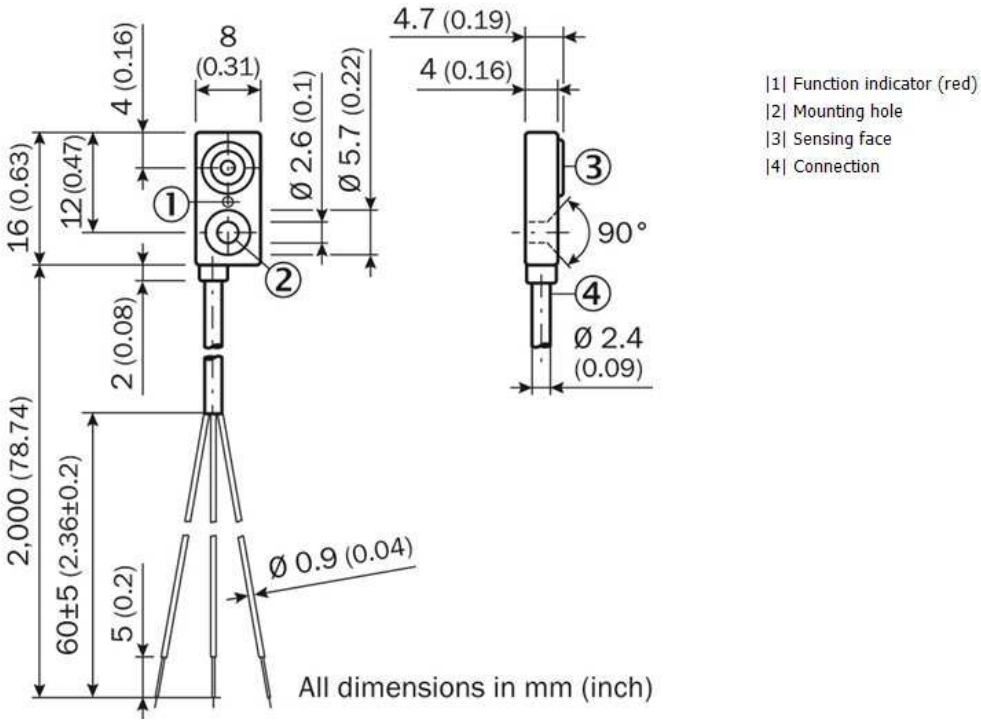
A:	0 mm
B:	16 mm
C:	8 mm
D:	4.5 mm
E:	0 mm
F:	24 mm
Remark:	Associated graphic see "Installation"

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Installation note



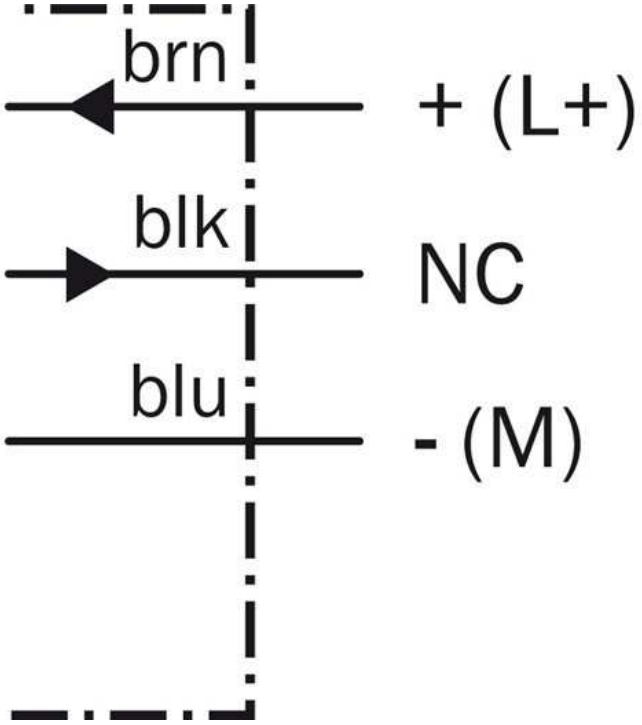
Dimensional drawing



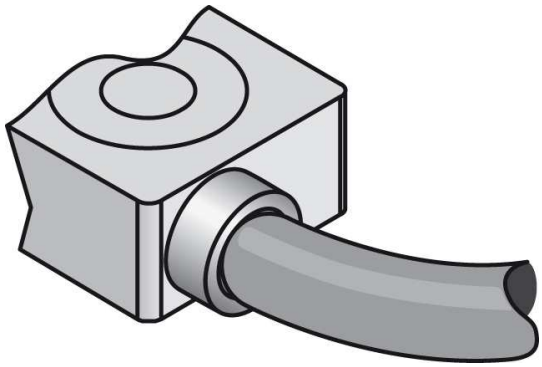
|1| Function indicator (red)
|2| Mounting hole
|3| Sensing face
|4| Connection

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Connection diagram



Connection type



A4 4c int43

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