



Inductive proximity sensors  
Rectangular housing, IQ04

IQ04-1B5NSKW2S



**Model Name** > [IQ04-1B5NSKW2S](#)  
**Part No.** > [6042019](#)



**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:	NO
Electrical wiring:	DC 3-wire
Enclosure rating:	IP 67 <sup>1)</sup>
Electrical connection:	Cable, 3-wire, 2 m

<sup>1)</sup> According to EN 60529

**Mechanics/electronics**

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

EMC:	According to EN 60947-5-2
Output current $I_a$ :	100 mA
Cable material:	PVC
Conductor cross-section:	0.09 mm <sup>2</sup>
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)  $U_b$  and  $T_a$  constant 5) Of  $S_r$

### Reduction factors

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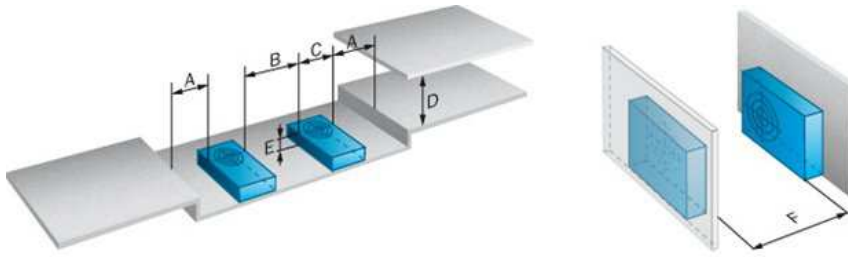
Note:	The values are reference values which may vary
Stainless steel (V2A, 304):	Ca. 0.7
Copper (Cu):	Ca. 0.3
Aluminum (Al):	Ca. 0.4
Brass (Br):	Ca. 0.4

### Installation note

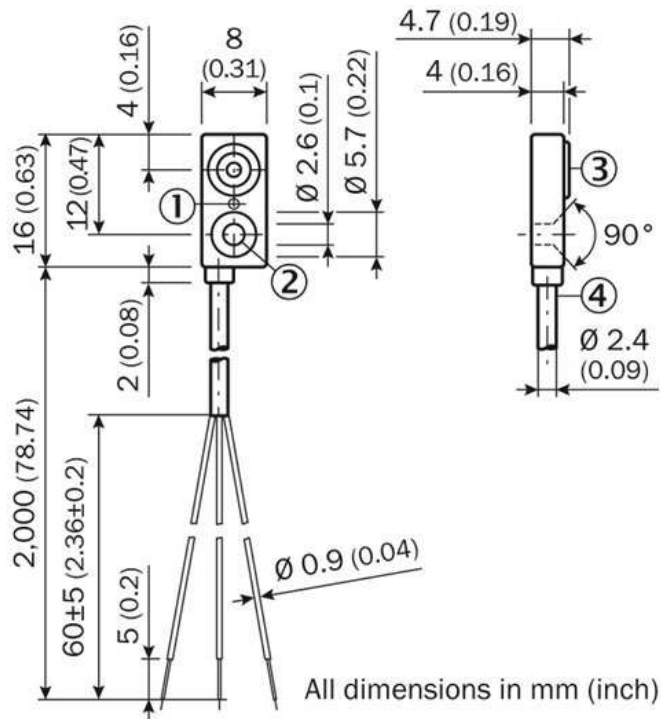
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A:	0 mm
B:	16 mm
C:	8 mm
D:	4.5 mm
E:	0 mm
F:	24 mm
Remark:	Associated graphic see "Installation"

## Installation note



## Dimensional drawing



- [1] Function indicator (red)
- [2] Mounting hole
- [3] Sensing face
- [4] Connection

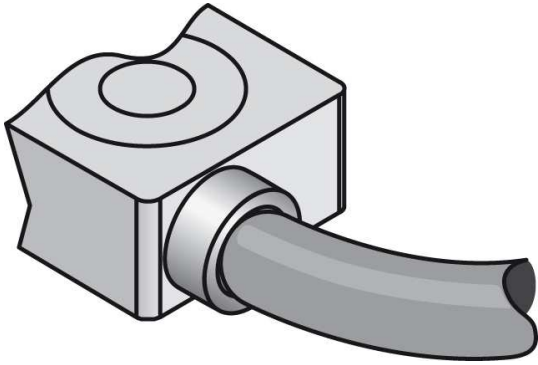
Connection diagram

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Connection type

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