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Inductive proximity sensors
Rectangular housing, IQ06

IQ06-03BNOKU2S

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Rectangular housing, IQ06

Model Name > IQ06-03BNOKU2S
Part No. > 6042025

At a glance

- Flat, compact design
- Long sensing distance up to 3 mm
- Easily visible indication LEDs
- Available in a plastic housing
- Dimensions: 10 mm x 30 mm x 6 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

Housing:	Rectangular
Dimensions (W x H x D):	10 mm x 30 mm x 6 mm
Sensing range Sn:	3 mm
Assured sensing range Sa:	2.43 mm
Installation type:	Flush
Switching frequency:	1,000 Hz
Output type:	NPN
Output function:	NC
Electrical wiring:	DC 3-wire
Enclosure rating:	IP 67 [1]
Connection type:	Cable, 3-wire, 2 m

[1] According to EN 60529

Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC
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:	PUR
Conductor cross-section:	0.14 mm²
Cable diameter:	3 mm
Short-circuit protection:	✓
Shock/vibration:	30 g, 11 ms／10 ... 55 Hz, 1 mm
Ambient operating temperature:	-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:	1.5 mm
B:	20 mm
C:	10 mm
D:	9 mm
E:	0 mm
F:	30 mm
Remark:	Associated graphic see "Installation"

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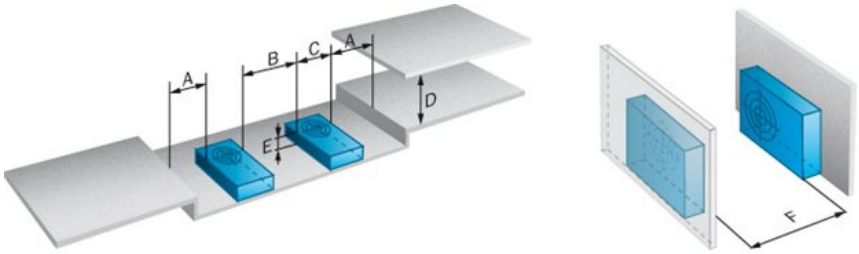
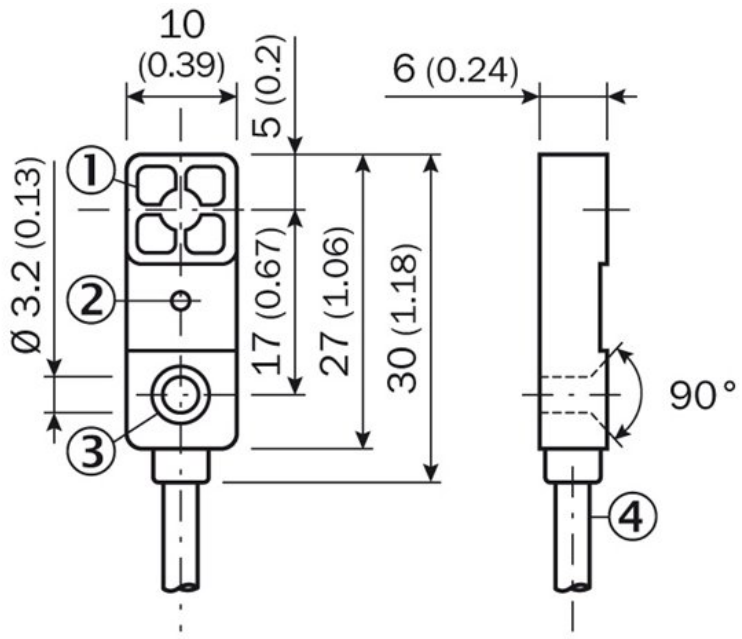
Installation note



Dimensional drawing



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

All dimensions in mm (inch)

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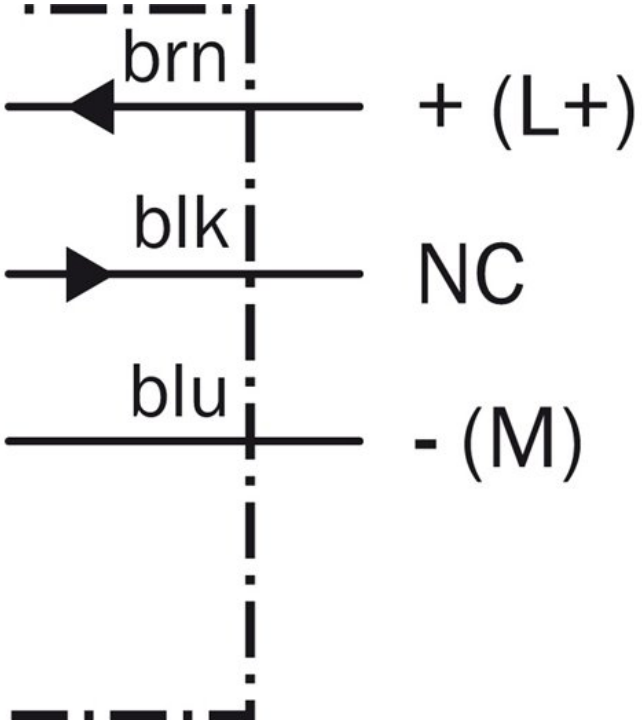
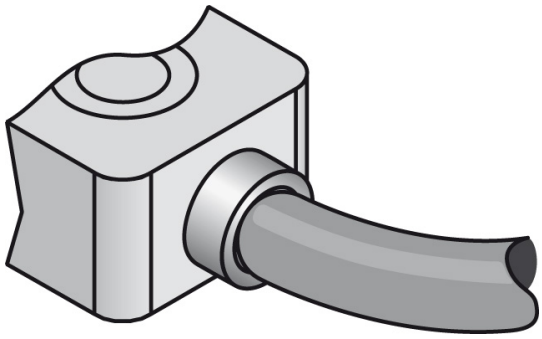
Connection diagram



Connection type



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