

ONLINE DATA SHEET
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Inductive proximity sensors
Rectangular housing, IQ40

IQ40-20BPPKC0K



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Inductive proximity sensors
Rectangular housing, IQ40

Model Name > IQ40-20BPPKC0K
Part No. > 6037072



At a glance

- Increased operating distance up to 40 mm
- Corner LEDs
- Sensing face rotatable in five directions
- Sturdy and compact design
- Integrated mounting clamp
- DC and AC/DC versions available

Your benefits

- Flexible mounting options due to rotatable sensor head
- Time-saving monitoring with highly visible power and output LEDs.
- Cost reduction due to reduced mechanical damage with increased sensing distance
- Shorter installation times due to integrated mounting fixture
- Reduced maintenance costs

Features

Design:	Rectangular
Dimensions (W x H x D):	40 mm x 40 mm x 66 mm
Sensing range Sn:	20 mm
Assured sensing range Sa:	16.2 mm
Installation type:	Flush
Switching frequency:	100 Hz
Output type:	PNP
Output function:	Complementary
Electrical wiring:	DC 4-wire
Enclosure rating:	IP 67 [1]
Electrical connection:	Connector M12, 4-pin [2]
Housing:	Short-body

[1] According to EN 60529 [2] Rotatable 270°, engaging

Mechanics/electronics

Supply voltage:	10 V DC ... 36 V DC
Voltage drop:	≤ 2.5 V [1]
Power consumption:	≤ 25 mA [2]
Hysteresis:	1 % ... 20 %

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Temperature drift (of Sr):	± 10 %
EMC:	According to EN 60947-5-2
Output current Ia:	≤ 200 mA
Short-circuit protection:	✓
Reverse polarity protection:	✓
Power-up pulse 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, PA6
Special features:	Class 2 power source, as per cULus

[1] With Ia max and Ub 24 V [2] Without load

Reduction factors

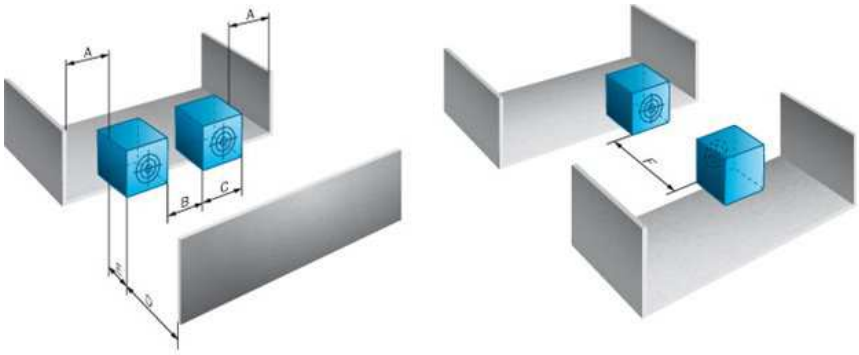
Note:	The values are reference values which may vary
Stainless steel (V2A, 304):	Ca. 0.7
Copper (Cu):	Ca. 0.3
Aluminum (Al):	Ca. 0.4
Brass (Br):	Ca. 0.4

Installation note

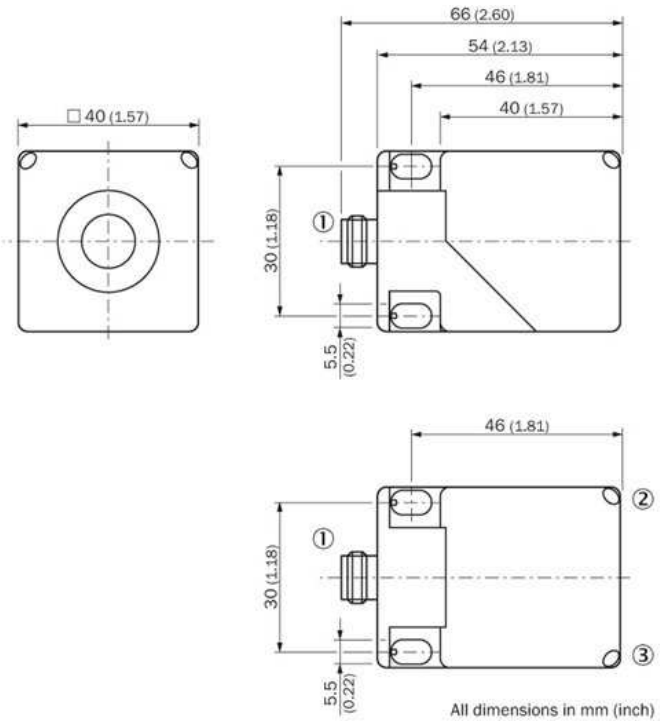
A:	0 mm
B:	40 mm
C:	40 mm
D:	60 mm
E:	0 mm
F:	160 mm
Remark:	Associated graphic see "Installation"

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Installation note



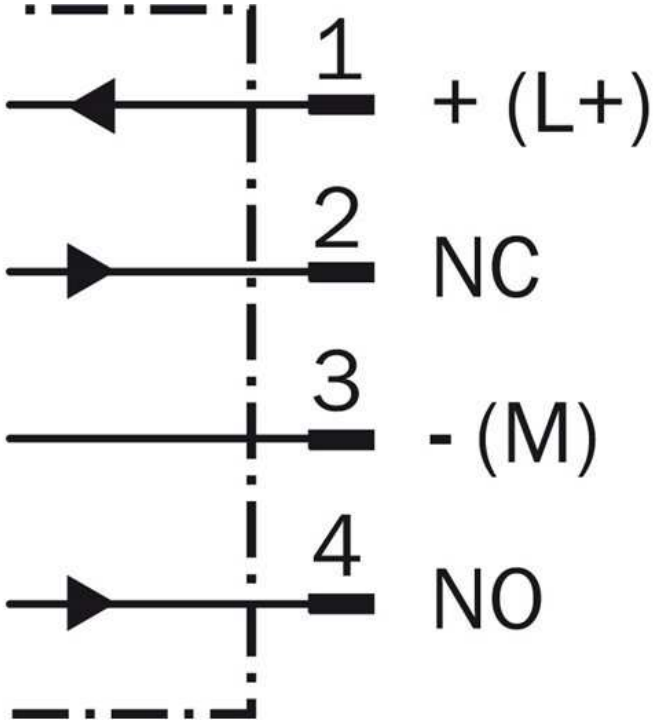
Dimensional drawing



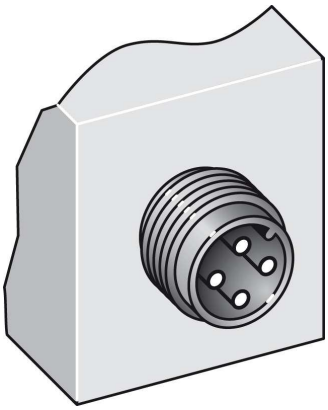
|1| Connector M12, 4- pin
|2| Status LED, yellow
|3| Operation status LED, green

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Connection diagram



Connection type



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A4 4c int43

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