



Inductive proximity sensors
Rectangular housing, IQ40

IQ40-40NPSKC0K



Model Name > IQ40-40NPSKC0K
Part No. > 6037071



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:	40 mm
Assured sensing range Sa:	32.4 mm
Installation type:	Non-flush
Switching frequency:	60 Hz
Output type:	PNP
Output function:	NO
Electrical wiring:	DC 3-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:	≤ 20 mA ²⁾
Hysteresis:	1 % ... 20 %

Temperature drift (of Sr):	± 10 %
EMC:	According to EN 60947-5-2
Output current I _a :	≤ 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 I_a max and U_b 24 V 2) Without load

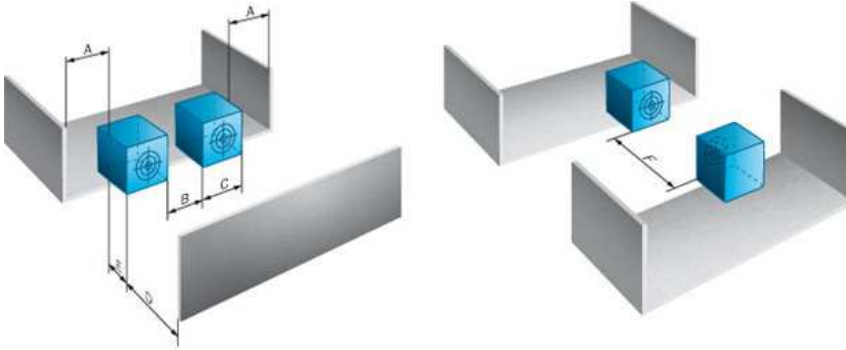
Reduction factors

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

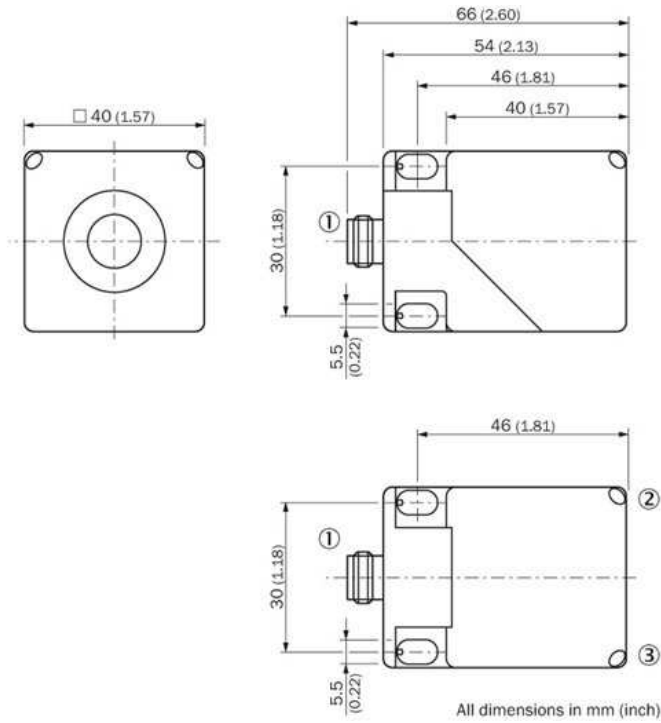
Installation note

A:	80 mm
B:	100 mm
C:	40 mm
D:	120 mm
E:	40 mm
F:	320 mm
Remark:	Associated graphic see "Installation"

Installation note

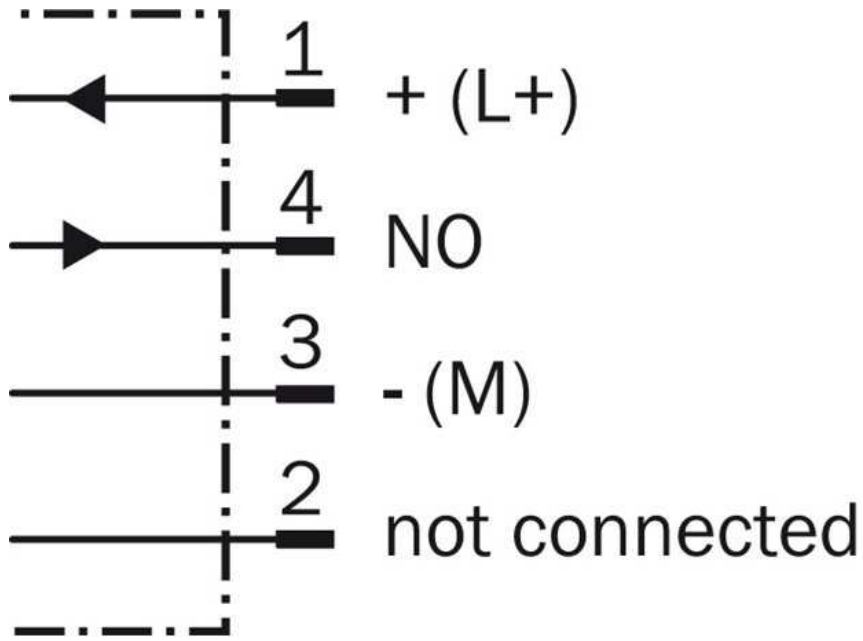


Dimensional drawing

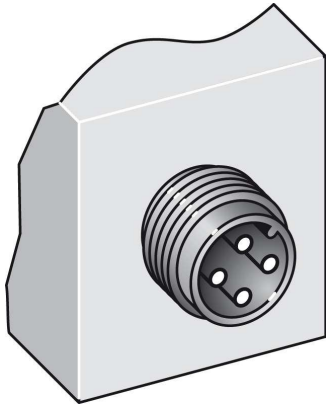


- |1| Connector M12, 4- pin
- |2| Status LED, yellow
- |3| Operation status LED, green

Connection diagram



Connection type



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