



Inductive proximity sensors
Rectangular housing, IQ40

IQ40-20NPP-KK1



Model Name > [IQ40-20NPP-KK1](#)
Part No. > [6025815](#)



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 118 mm
Sensing range S_n :	20 mm
Assured sensing range S_a :	16.2 mm
Installation type:	Non-flush
Switching frequency:	150 Hz
Output type:	PNP
Output function:	Complementary
Electrical wiring:	DC 4-wire
Enclosure rating:	IP 68 ¹⁾
Electrical connection:	Terminal connection with M20 gland
Housing:	Standard

¹⁾ According to EN 60529

Mechanics/electronics

Supply voltage:	10 V DC ... 60 V DC
Voltage drop:	$\leq 2.8 \text{ V}$ ¹⁾
Power consumption:	$\leq 10 \text{ mA}$ ²⁾
Temperature drift (of S_r):	$\pm 10 \%$

EMC:	According to EN 60947-5-2
Output current I _a :	≤ 200 mA
Wire size:	≤ 2.5 mm ²
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, PBT
Terminal thread size:	M20 x 1.5

1) With I_a max and U_b 60 V 2) Without load

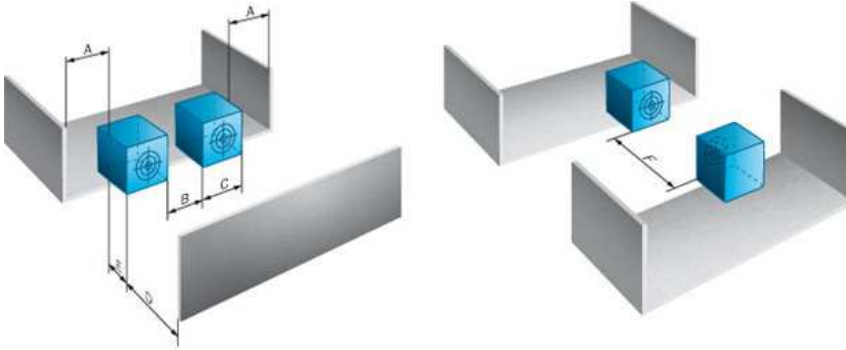
Reduction factors

Note:	The values are reference values which may vary
Stainless steel (V2A, 304):	Ca. 0.8
Copper (Cu):	Ca. 0.35
Aluminum (Al):	Ca. 0.35

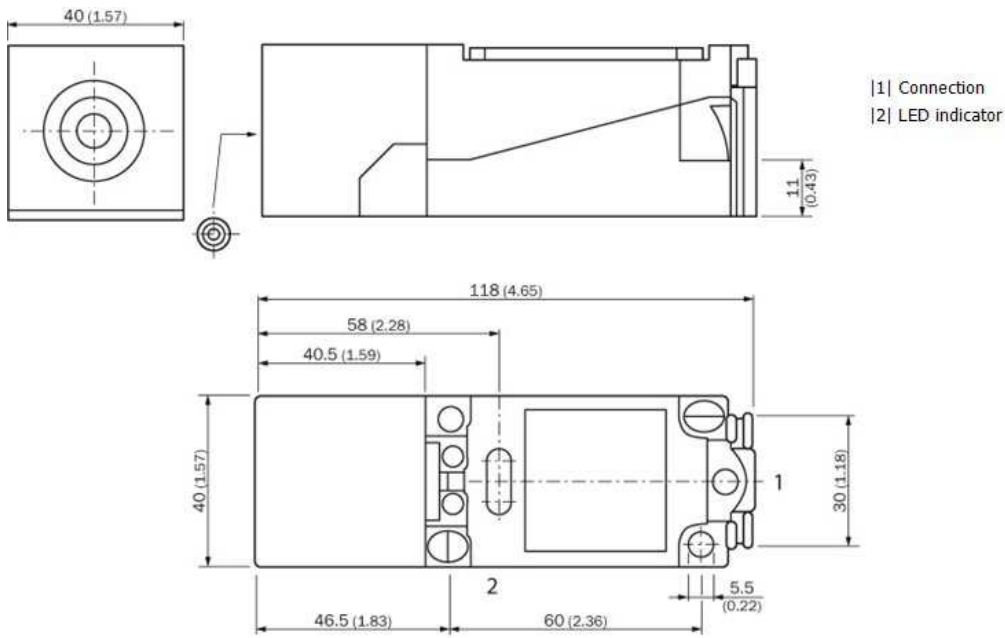
Installation note

A:	0 mm
B:	120 mm
C:	40 mm
D:	60 mm
E:	25 mm
F:	120 mm
Remark:	Associated graphic see "Installation"

Installation note

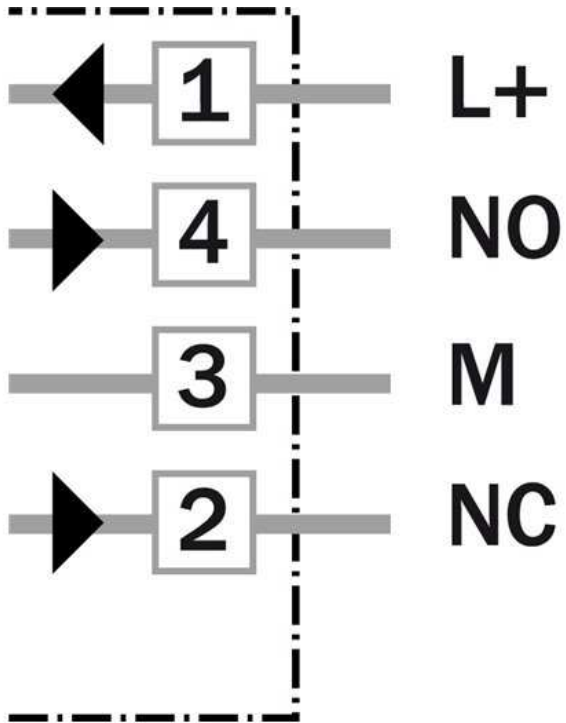


Dimensional drawing

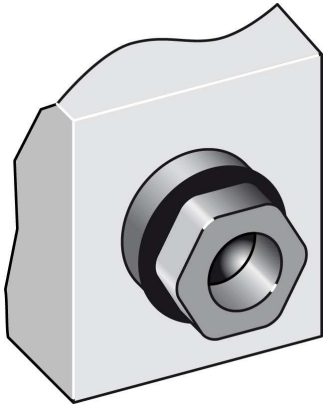


All dimensions in mm (inch)

Connection diagram



Connection type



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