

ONLINE DATA SHEET
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Inductive proximity sensors
Rectangular housing, IQ40

IQ40-15BDP-KK1



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Inductive proximity sensors
Rectangular housing, IQ40

Model Name > IQ40-15BDP-KK1
Part No. > 6025817





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

CE

Features

Design:	Rectangular
Dimensions (W x H x D):	40 mm x 40 mm x 118 mm
Sensing range Sn:	15 mm
Assured sensing range Sa:	12.15 mm
Installation type:	Flush
Switching frequency:	400 Hz
Output function:	NC or NO
Electrical wiring:	DC 2-wire
Enclosure rating:	IP 68 [1]
Electrical connection:	Terminal connection with M20 gland
Housing:	Standard
Output characteristic:	Wire configurable

[1] According to EN 60529

Mechanics/electronics

Supply voltage:	5 V DC ... 60 V DC
Voltage drop:	≤ 5 V [1]
Temperature drift (of Sr):	± 10 %
EMC:	According to EN 60947-5-2

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Output current Ia:	≤ 200 mA (2 mA)
Off-state current:	≤ 1 mA
Wire size:	≤ 2.5 mm²
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 Ia max and Ub 60 V

Reduction factors

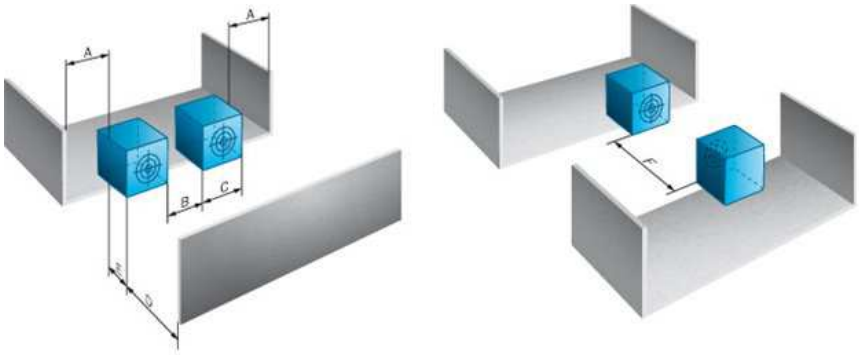
Note:	The values are reference values which may vary
Stainless steel (V2A, 304):	Ca. 0.75
Copper (Cu):	Ca. 0.25
Aluminum (Al):	Ca. 0.28

Installation note

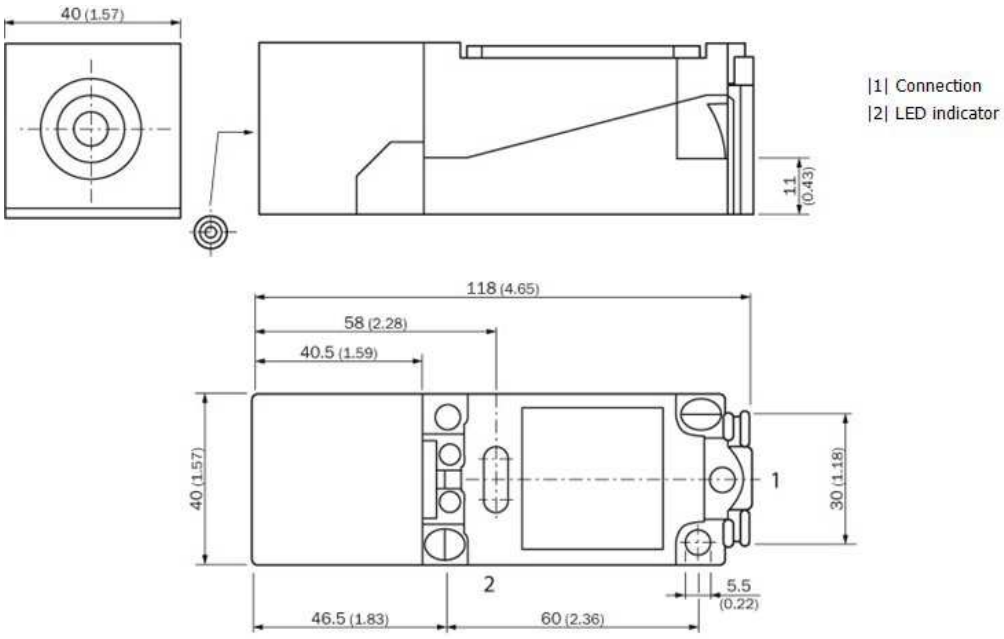
A:	0 mm
B:	60 mm
C:	40 mm
D:	45 mm
E:	0 mm
F:	80 mm
Remark:	Associated graphic see "Installation"

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Installation note



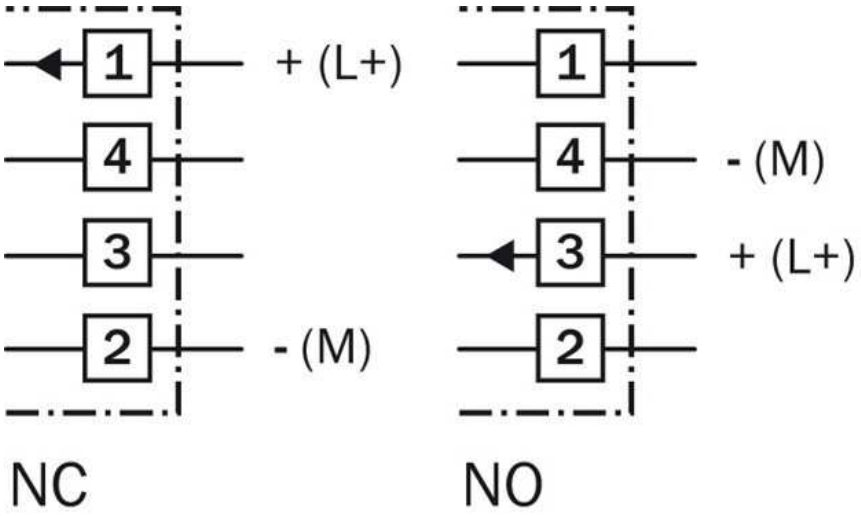
Dimensional drawing



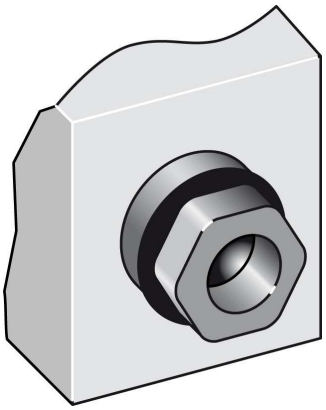
All dimensions in mm (inch)

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Connection diagram



Connection type



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A4 4c int43

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