

ONLINE DATA SHEET
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Inductive proximity sensors
Rectangular housing, IQ10

IQ10-03BNOKT0S



SICK
Sensor Intelligence.

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Rectangular housing, IQ10

Model Name > IQ10-03BNOKT0S
Part No. > 1055456



At a glance

- Tough VISTALTM housing
- SICK-ASIC technology
- 270° status display with extra-bright LED
- Extended sensing range of up to 6 mm
- Hotmelt molding
- Withstands high installation and tightening torque
- IP 68 enclosure rating

Your benefits

- Best mechanical and electronic stability for extra-long service life
- Highest levels of process reliability for your application
- Long service life that reduce maintenance costs thanks to SICK's ASIC technology and rugged VISTALTM housing
- Precise detection and high sensor accuracy enable fast handling and assembly processes
- Space-saving integration in every application
- Increased levels of protection against shock and vibration reduce maintenance costs
- Quick viewing of sensor status from any position in the room reduces mounting time and commissioning
- Safe, fast mounting without any need for readjustment saves installation time and maintenance costs

Features

Design:	Rectangular
Dimensions (W x H x D):	10 mm x 16 mm x 28 mm
Sensing range Sn:	3 mm
Assured sensing range Sa:	2.43 mm
Installation type:	Flush
Switching frequency:	2,000 Hz
Output type:	NPN
Output function:	NC
Electrical wiring:	DC 3-wire
Enclosure rating:	IP 67 IP 68 [1)]
Connection type:	Connector M8, 3-pin

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[1] According to EN 60529

Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC
Ripple:	≤ 10 % [1]
Voltage drop:	≤ 2 V [2]
Power consumption:	≤ 10 mA [3]
Time delay before availability:	≤ 100 ms
Hysteresis:	5 % ... 15 %
Repeatability::	≤ 2 % [4] [5]
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 operating temperature:	-25 °C ... +75 °C
Housing material:	Plastic, VISTAL
Sensing face material:	Plastic, VISTAL
Tightening torque, max.:	≤ 1 Nm

[1] Of V_S [2] At I_a max [3] Without load [4] Ub and Ta constant [5] Of Sr

Reduction factors

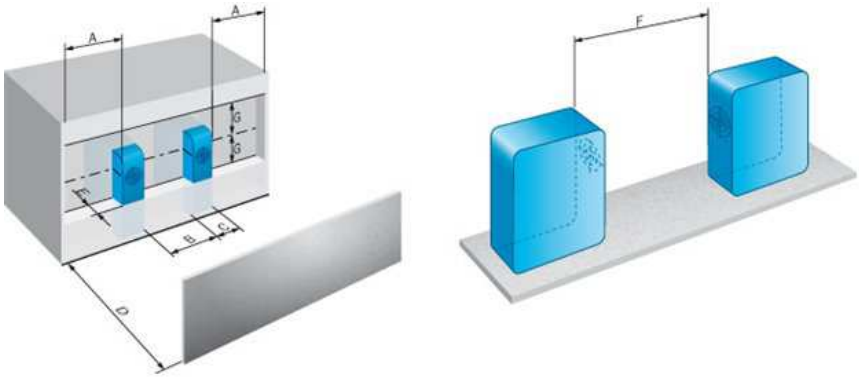
Note:	The values are reference values which may vary
Stainless steel (V2A, 304):	0.75
Copper (Cu):	0.35
Aluminum (Al):	0.4
Brass (Br):	0.5

Installation note

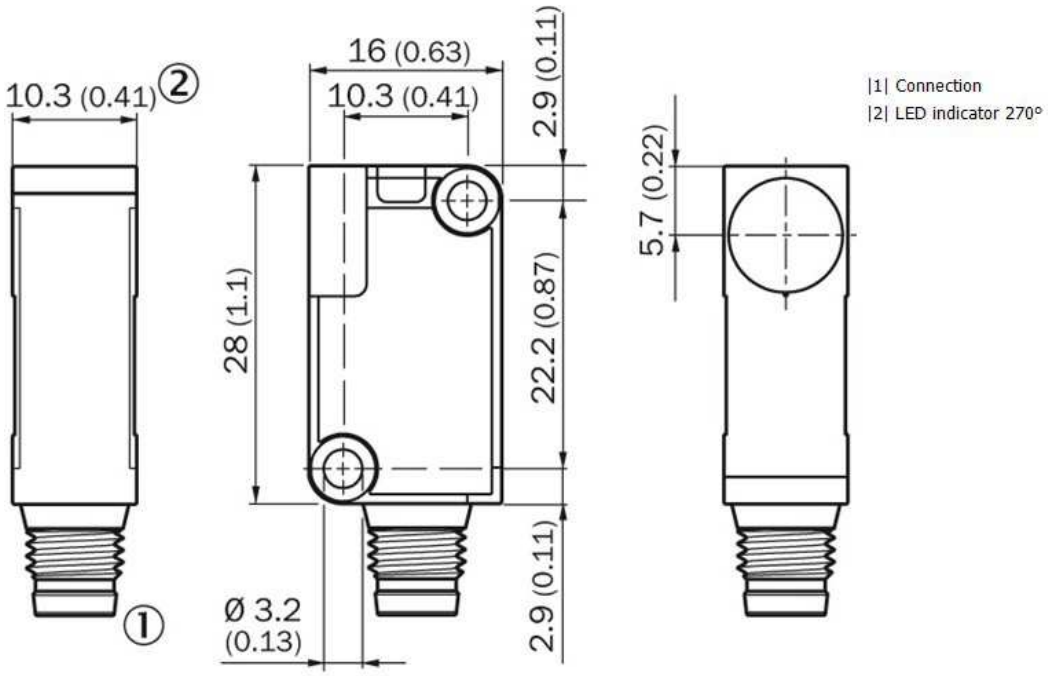
A:	0 mm
B:	10 mm
C:	10.3 mm
D:	9 mm
E:	0 mm
F:	24 mm
G:	0 mm
Remark:	Associated graphic see "Installation"

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Installation note

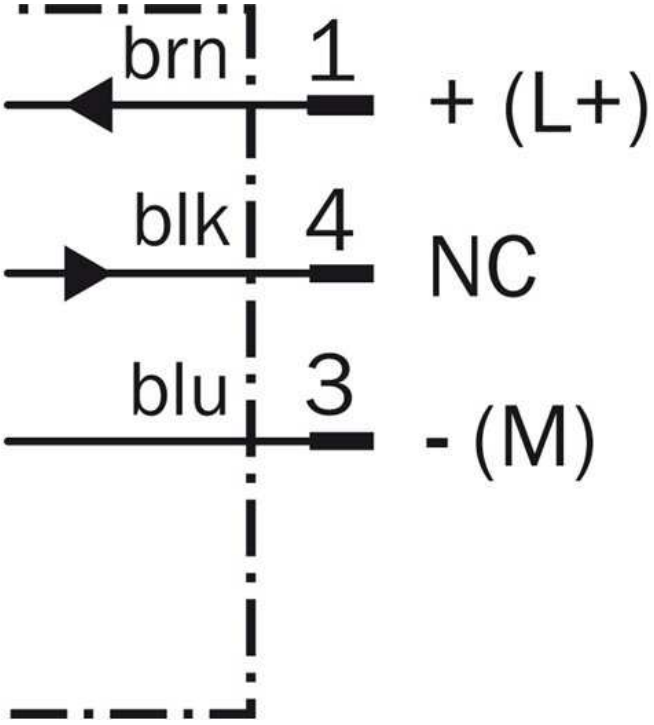


Dimensional drawing



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Connection diagram



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