

ONLINE DATA SHEET
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Inductive proximity sensors
Rectangular housing, IQ12

IQ12-04BNOKW2S



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Sensor Intelligence.

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Rectangular housing, IQ12

Model Name > IQ12-04BNOKW2S
Part No. > 1055431



At a glance

- Tough VISTALTM housing
- SICK-ASIC technology
- 270° status display with extra-bright LED
- Extended sensing range of up to 8 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):	12 mm x 26 mm x 40 mm
Sensing range Sn:	4 mm
Assured sensing range Sa:	3.24 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:	Cable, 3-wire, 2 m

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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
Cable material:	PVC
Conductor cross-section:	0.25 mm²
Cable diameter:	Ø 3.7 mm
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
Sensing face material:	Plastic, VISTAL
Tightening torque, max.:	≤ 1 Nm
Housing material:	Plastic, VISTAL

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

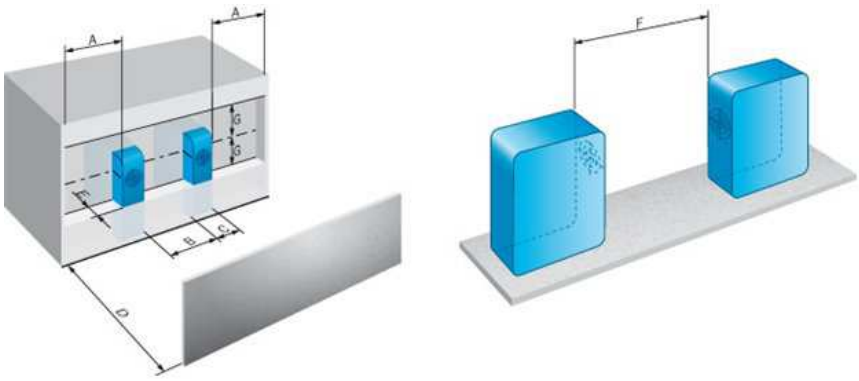
Reduction factors

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

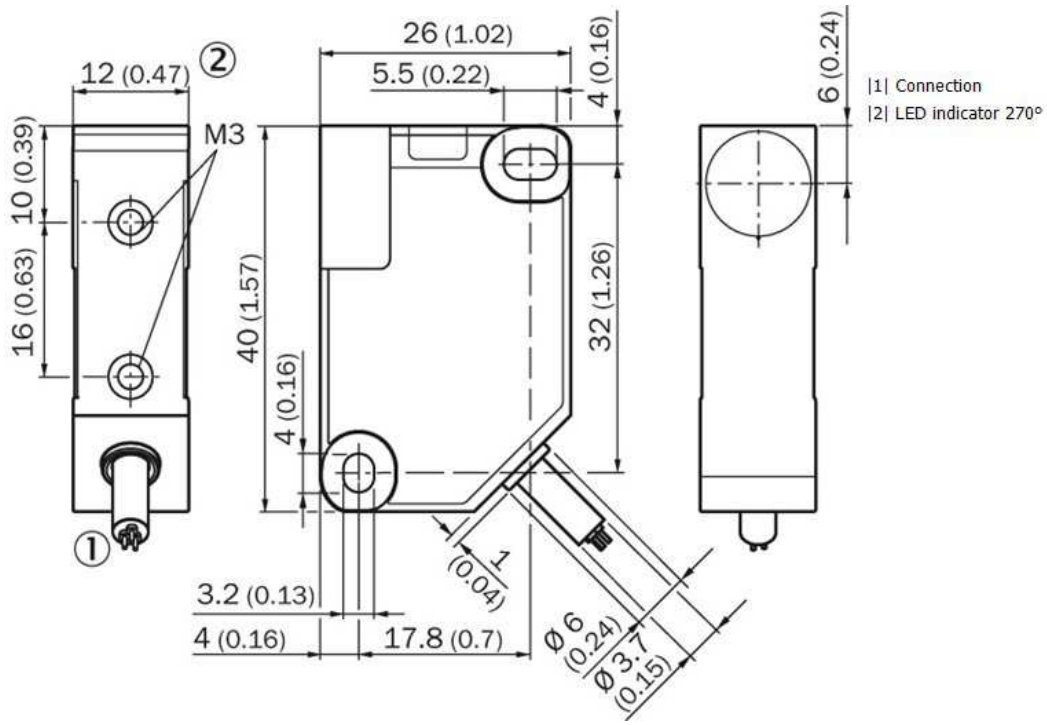
Installation note

A:	0 mm
B:	12 mm
C:	12 mm
D:	12 mm
E:	0 mm
F:	32 mm
G:	0 mm
Remark:	Associated graphic see "Installation"

Installation note

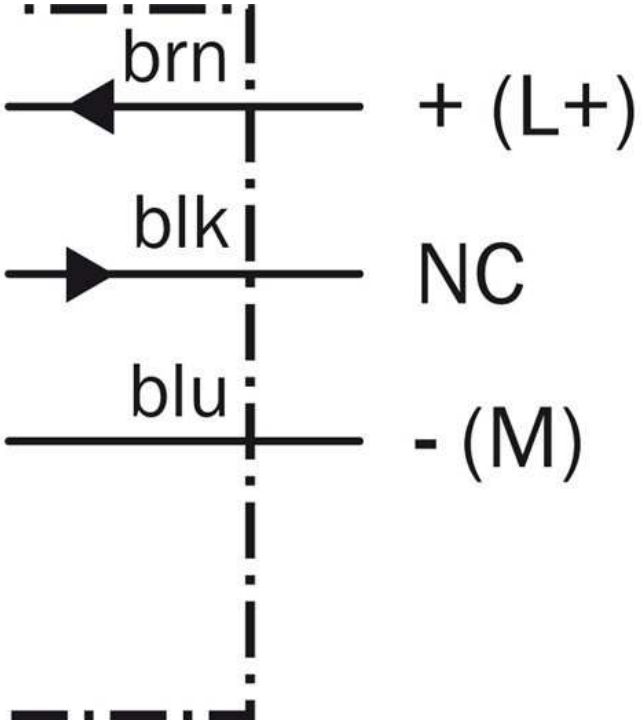


Dimensional drawing



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Connection diagram



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