



Inductive proximity sensors Rectangular housing, IQ12

IQ12-04BNOKW2S



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 ¹⁾ IP 68
Connection type:	Cable, 3-wire, 2 m

1) According to EN 60529

Mechanics/electronics

Supply voltage:	10 V DC ... 30 V DC
Ripple:	$\leq 10\%$ ¹⁾
Voltage drop:	$\leq 2\text{ V}$ ²⁾
Power consumption:	$\leq 10\text{ mA}$ ³⁾
Time delay before availability:	$\leq 100\text{ ms}$
Hysteresis:	5 % ... 15 %
Repeatability:	$\leq 2\%$ ⁴⁾ ⁵⁾
Temperature drift (of Sr):	$\pm 10\%$
EMC:	According to EN 60947-5-2
Output current I _a :	$\leq 200\text{ mA}$
Cable material:	PVC
Conductor cross-section:	0.25 mm ²
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.:	$\leq 1\text{ Nm}$
Housing material:	Plastic, VISTAL

1) Of V_S ²⁾ At I_a max ³⁾ Without load ⁴⁾ U_b and T_a constant ⁵⁾ Of Sr

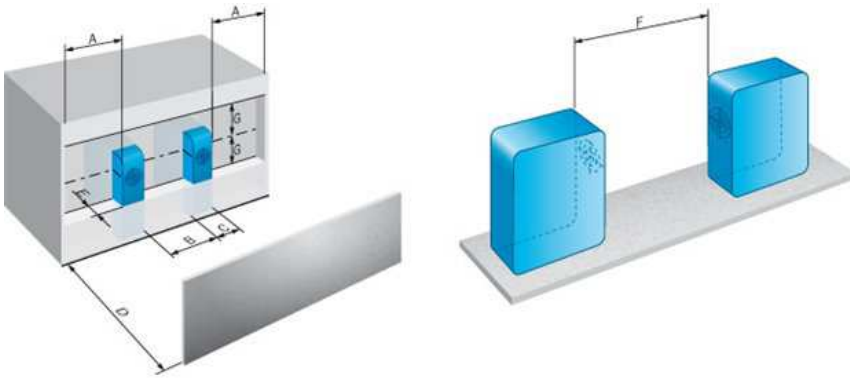
Reduction factors

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

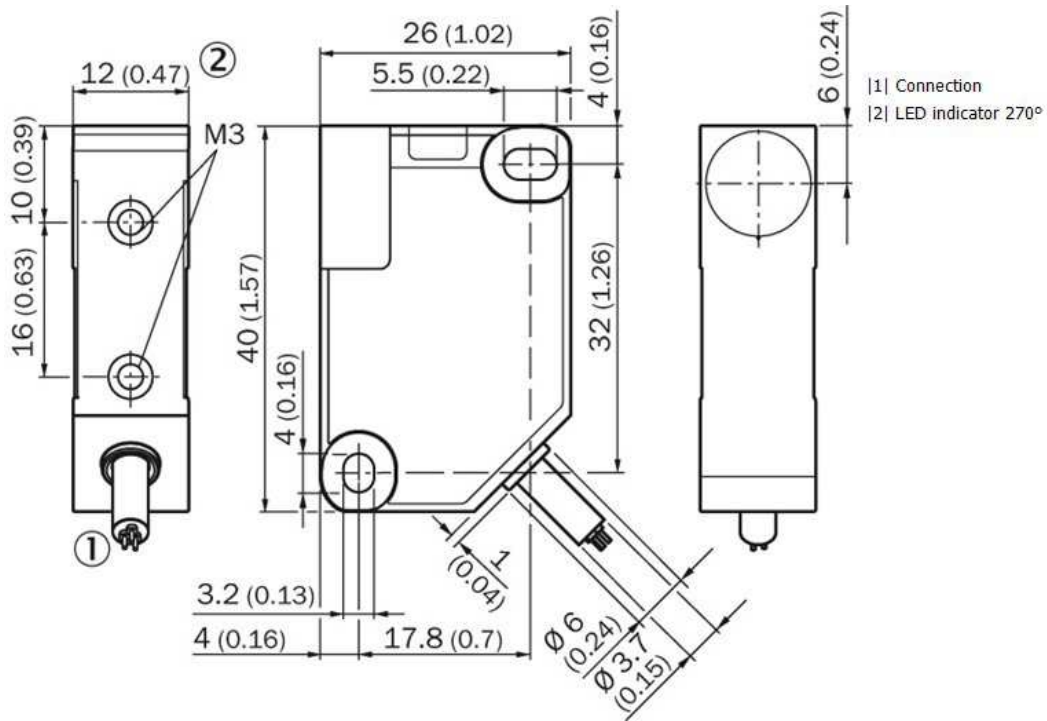
Installation note

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"

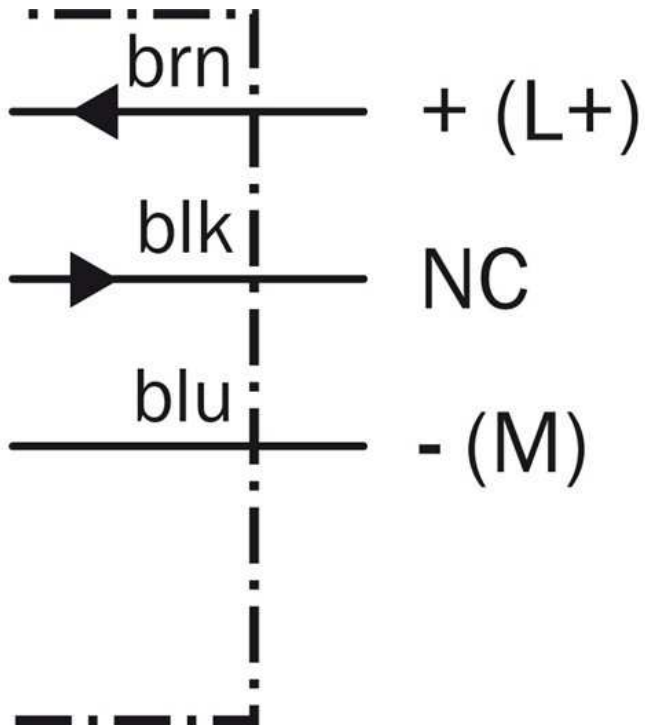
Installation note



Dimensional drawing



Connection diagram



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