

# IQ10-03BNSKW2S

**INDUCTIVE PROXIMITY SENSORS** 





## Ordering information

Туре	Part no.
IQ10-03BNSKW2S	1055450

Other models and accessories → www.sick.com/IQB



## Detailed technical data

### **Features**

Housing	Rectangular
Dimensions (W x H x D)	10 mm x 28 mm x 16 mm
Sensing range S <sub>n</sub>	3 mm
Safe sensing range S <sub>a</sub>	2.43 mm
Installation type	Flush
Switching frequency	2,000 Hz
Connection type	Cable, 3-wire, 2 m
Switching output	NPN
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP68 <sup>1)</sup>

<sup>&</sup>lt;sup>1)</sup> According to EN 60529.

## Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	≤ 10 % <sup>1)</sup>
Voltage drop	$\leq$ 2 V <sup>2)</sup>
Current consumption	$\leq$ 10 mA $^{3)}$
Time delay before availability	≤ 100 ms
Hysteresis	5 % 15 %
Reproducibility	≤ 2 % <sup>4)</sup>
Temperature drift (of S <sub>r</sub> )	± 10 %

 $<sup>^{1)}</sup>$  Of  $V_{S}$ .

 $<sup>^{2)}</sup>$  At  $\rm I_a$  max.

<sup>&</sup>lt;sup>3)</sup> Without load.

<sup>&</sup>lt;sup>4)</sup> Ub and Ta constant.

ЕМС	According to EN 60947-5-2
Continuous current I <sub>a</sub>	≤ 200 mA
Cable material	PVC
Conductor size	0.25 mm <sup>2</sup>
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
Housing material	Plastic, VISTAL®
Sensing face material	Plastic, VISTAL®
Tightening torque, max.	≤ 1 Nm

 $<sup>^{1)}</sup>$  Of  $V_S$ .

## Reduction factors

Note	The values are reference values which may vary
Stainless steel (V2A, 304)	0.7
Aluminum (AI)	0.4
Copper (Cu)	0.3
Brass (Br)	0.5

### Installation note

Remark	Associated graphic see "Installation"
A	0 mm
В	10 mm
c	10.3 mm
D	9 mm
E	0 mm
F	24 mm
G	0 mm

## Classifications

ECI@ss 5.0	27270101
ECI@ss 5.1.4	27270101
ECI@ss 6.0	27270101
ECI@ss 6.2	27270101
ECI@ss 7.0	27270101
ECI@ss 8.0	27270101
ECI@ss 8.1	27270101
ECI@ss 9.0	27270101

<sup>&</sup>lt;sup>2)</sup> At I<sub>a</sub> max.

<sup>3)</sup> Without load.

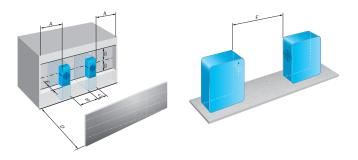
<sup>4)</sup> Ub and Ta constant.

# IQ10-03BNSKW2S | IQB

## INDUCTIVE PROXIMITY SENSORS

ETIM 5.0	EC002714
ETIM 6.0	EC002714
UNSPSC 16.0901	39122230

### Installation note



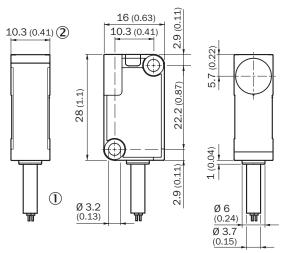
## Connection diagram

cd-001



# Dimensional drawing (Dimensions in mm (inch))

IQ10, cable



- ① Connection
- ② LED indicator 270°

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SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

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