

IQ08-02BPSKT0S

**INDUCTIVE PROXIMITY SENSORS** 





## Ordering information

Туре	Part no.
IQ08-02BPSKT0S	1055494

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

### Detailed technical data

CE UL EHE

#### Features

i catules	
Housing	Rectangular
Dimensions (W x H x D)	8 mm x 40 mm x 8 mm
Sensing range S <sub>n</sub>	2 mm
Safe sensing range S <sub>a</sub>	1.62 mm
Installation type	Flush
Switching frequency	2,000 Hz
Connection type	Connector M8, 3-pin
Switching output	PNP
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP67, 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 $^{2)}$
Time delay before availability	≤ 100 ms
Hysteresis	5 % 15 %
Reproducibility	≤ 2 % <sup>3) 4)</sup>
Temperature drift (of S <sub>r</sub> )	± 10 %

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

 $<sup>^{2)}</sup>$  At I $_{\rm a}$  max.

 $<sup>^{</sup>m 3)}$  Ub and Ta constant.

<sup>&</sup>lt;sup>4)</sup> Of Sr.

EMC	According to EN 60947-5-2
Continuous current I <sub>a</sub>	≤ 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.	≤ 1.5 Nm
UL File No.	NRKH.E348498

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

## Safety-related parameters

MTTF <sub>D</sub>	1,730 years
DC <sub>avg</sub>	0 %
T <sub>M</sub> (mission time)	20 years

### Reduction factors

Note	The values are reference values which may vary
Stainless steel (V2A, 304)	Approx. 0.7
Aluminum (AI)	Approx. 0.3
Copper (Cu)	Approx. 0.2
Brass (Br)	Approx. 0.3

### Installation note

Remark	Associated graphic see "Installation"
A	0 mm
В	10 mm
С	8 mm
D	6 mm
E	0 mm
F	16 mm
G	0 mm

### Classifications

eCl@ss 5.0	27270101
eCl@ss 5.1.4	27270101
eCl@ss 6.0	27270101
eCl@ss 6.2	27270101
eCl@ss 7.0	27270101
eCl@ss 8.0	27270101

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

 $<sup>^{</sup>m 3)}$  Ub and Ta constant.

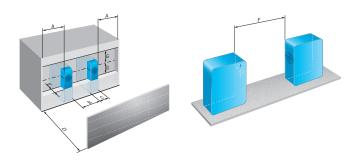
<sup>&</sup>lt;sup>4)</sup> Of Sr.

# IQ08-02BPSKT0S | IQY

## INDUCTIVE PROXIMITY SENSORS

eCl@ss 8.1	27270101
eCl@ss 9.0	27270101
eCl@ss 10.0	27270101
eCl@ss 11.0	27270101
eCl@ss 12.0	27274001
ETIM 5.0	EC002714
ETIM 6.0	EC002714
ETIM 7.0	EC002714
ETIM 8.0	EC002714
UNSPSC 16.0901	39122230

### Installation note



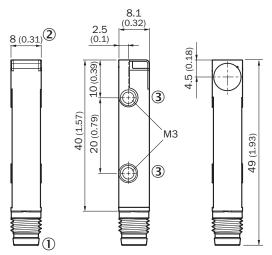
## Connection diagram

Cd-002



### Dimensional drawing (Dimensions in mm (inch))

IQ08, connector



- ① Connection
- ② LED indicator 270°
- 3 Threaded mounting hole M3

### Recommended accessories

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

	Brief description	Туре	Part no.	
Plug connect	Plug connectors and cables			
	Head A: female connector, M8, 3-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YF8U13- 020VA1XLEAX	2095860	
	Head A: female connector, M8, 3-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YF8U13- 050VA1XLEAX	2095884	
3	Head A: female connector, M8, 3-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YG8U13- 020VA1XLEAX	2096165	
	Head A: female connector, M8, 3-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YG8U13- 050VA1XLEAX	2096166	
	Head A: female connector, M8, 3-pin, straight Cable: unshielded	DOS-0803-G	7902077	
	Head A: female connector, M8, 3-pin, angled Cable: unshielded	DOS-0803-W	7902078	

## SICK AT A GLANCE

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."

## **WORLDWIDE PRESENCE:**

Contacts and other locations -www.sick.com

