Product data sheet



IQ05-0B8PS-ZU1

IQY

INDUCTIVE PROXIMITY SENSORS

SICK
Sensor Intelligence.



Ordering information

Type	Part no.
IQ05-0B8PS-ZU1	6020161

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

Detailed technical data

Features

Housing	Rectangular
Dimensions (W x H x D)	5 mm x 25 mm x 5 mm
Sensing range S_n	0.8 mm
Safe sensing range S_a	0.648 mm
Installation type	Flush
Switching frequency	5,000 Hz
Connection type	Cable, 3-wire, 2 m
Switching output	PNP
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP67 [1]

[1] According to EN 60529.

Mechanics/electronics

Supply voltage	10 V DC ... 30 V DC
Ripple	≤ 20 % [1]
Voltage drop	≤ 2 V [2]
Time delay before availability	≤ 10 ms
Hysteresis	1 % ... 10 %
Reproducibility	≤ 1.5 % [3]
Temperature drift (of S_r)	± 10 %

[1] Of V_S.
[2] At I_a max.
[3] Ub = 20 V DC ... 30 V DC, Ta = 23 °C ± 5 °C.

EMC	According to EN 60947-5-2
Continuous current I_a	≤ 200 mA
Cable material	PUR
Conductor size	0.06 mm²
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 ... +70 °C
Housing material	Brass, chromium-plated
Sensing face material	Plastic, POM

[1] Of V_S.
[2] At I_a max.
[3] Ub = 20 V DC ... 30 V DC, Ta = 23 °C ± 5 °C.

Reduction factors

Note	The values are reference values which may vary
Stainless steel (V2A, 304)	Approx. 0.85
Aluminum (Al)	Approx. 0.6
Copper (Cu)	Approx. 0.6
Brass (Br)	Approx. 0.7

Installation note

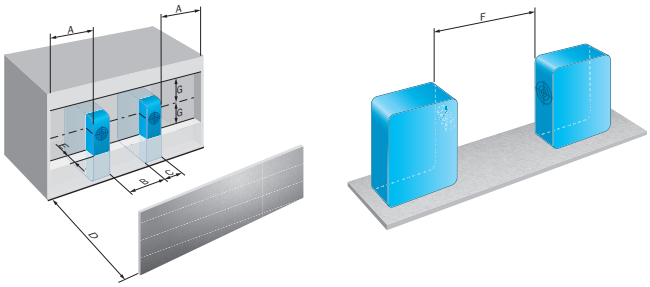
Remark	Associated graphic see "Installation"
A	0.8 mm
B	0 mm
C	5 mm
D	2.4 mm
E	0 mm
F	7 mm
G	3.3 mm

Classifications

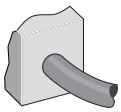
ECl@ss 5.0	27270101
ECl@ss 5.1.4	27270101
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ECl@ss 8.0	27270101
ECl@ss 8.1	27270101
ECl@ss 9.0	27270101
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ECl@ss 11.0	27270101
ECl@ss 12.0	27274001

ETIM 5.0	EC002714
ETIM 6.0	EC002714
ETIM 7.0	EC002714
ETIM 8.0	EC002714
UNSPSC 16.0901	39122230

Installation note

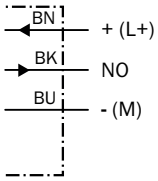


Connection type



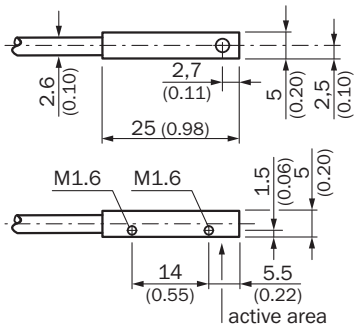
Connection diagram

Cd-001



Dimensional drawing (Dimensions in mm (inch))

IQ05



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:

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