

IQ06-03BPOKU2S

INDUCTIVE PROXIMITY SENSORS





Ordering information

Туре	Part no.
IQ06-03BP0KU2S	6042023

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



Detailed technical data

Features

Housing	Rectangular
Tiousnig	Neotangulai
Dimensions (W x H x D)	10 mm x 30 mm x 6 mm
Sensing range S _n	3 mm
Safe sensing range S _a	2.43 mm
Installation type	Flush
Switching frequency	1,000 Hz
Connection type	Cable, 3-wire, 2 m
Switching output	PNP
Output function	NC
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	≤ 10 % ¹⁾
Voltage drop	< 1.5 V ²⁾
Time delay before availability	≤ 10 ms
Hysteresis	1 % 15 %
Reproducibility	± 1 % ^{3) 4)}
Temperature drift (of S _r)	± 10 %
EMC	According to EN 60947-5-2
Continuous current I _a	≤ 100 mA
Cable material	PUR

 $^{^{1)}}$ Of V_S .

 $^{^{2)}\,\}mathrm{At}\,\mathrm{I}_{\mathrm{a}}\,\mathrm{max}.$

 $^{^{\}rm 3)}$ Supply voltage Ub and constant ambient temperature Ta.

⁴⁾ Of Sr.

Conductor size	0.14 mm²
Cable diameter	Ø 3 mm
Short-circuit protection	√
Shock and vibration resistance	30 g, 11 ms / 10 55 Hz, 1 mm
Ambient operating temperature	-25 °C +70 °C
Housing material	Plastic, PA6
Sensing face material	Plastic, PA6
Tightening torque, max.	0.6 Nm

 $^{^{1)}}$ Of V_{S} .

Safety-related parameters

MTTF _D	1,328 years
DC _{avg}	0%
T _M (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. 0.4
Copper (Cu)	Approx. 0.3
Brass (Br)	Approx. 0.4

Installation note

Remark	Associated graphic see "Installation"
Α	1.5 mm
В	20 mm
c	10 mm
D	9 mm
E	0 mm
F	30 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
eCl@ss 8.1	27270101
eCl@ss 9.0	27270101
eCl@ss 10.0	27270101
eCl@ss 11.0	27270101

²⁾ At I_a max.

³⁾ Supply voltage Ub and constant ambient temperature Ta.

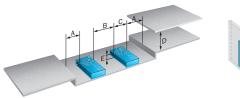
⁴⁾ Of Sr.

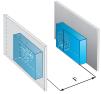
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INDUCTIVE PROXIMITY SENSORS

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



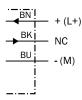


Connection type



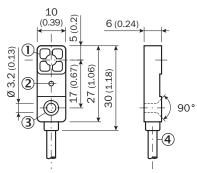
Connection diagram

Cd-003



Dimensional drawing (Dimensions in mm (inch))

IQ06



- ① Sensing face
- ② Function indicator (red)③ Fixing hole
- ④ Connection

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