

IQ04-1B5POKW2S

INDUCTIVE PROXIMITY SENSORS





Ordering information

Туре	Part no.
IQ04-1B5P0KW2S	6042018

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

Illustration may differ



Detailed technical data

Features

Housing	Rectangular
Dimensions (W x H x D)	8 mm x 16 mm x 4 mm
Sensing range S _n	1.5 mm
Safe sensing range S _a	1.215 mm
Installation type	Flush
Switching frequency	600 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 %
ЕМС	According to EN 60947-5-2
Continuous current I _a	≤ 100 mA

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

²⁾ At L may

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

⁴⁾ Of Sr.

Cable material	PVC
Conductor size	0.09 mm ²
Cable diameter	Ø 2.5 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.	0.06 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 (Al)	Approx. 0.4
Copper (Cu)	Approx. 0.3
Brass (Br)	Approx. 0.4

Installation note

Remark	Associated graphic see "Installation"
Α	0 mm
В	16 mm
С	8 mm
D	4.5 mm
E	0 mm
F	24 mm

Classifications

ECLASS 5.0	27270101
ECLASS 5.1.4	27270101
ECLASS 6.0	27270101
ECLASS 6.2	27270101
ECLASS 7.0	27270101
ECLASS 8.0	27270101
ECLASS 8.1	27270101
ECLASS 9.0	27270101
ECLASS 10.0	27270101

²⁾ At I_a max.

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

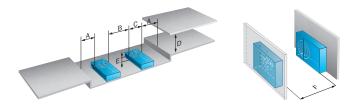
⁴⁾ Of Sr.

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ECLASS 11.0	27270101
ECLASS 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



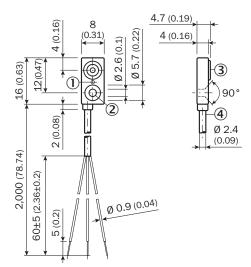
Connection diagram

Cd-003



Dimensional drawing (Dimensions in mm (inch))

IQ04



- ① Function indicator (red)
- ② Fixing hole③ Sensing face
- ④ Connection

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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.

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