

IQ40-15BUP-KK0 IQ Standard

INDUCTIVE PROXIMITY SENSORS





Ordering information

Туре	part no.
IQ40-15BUP-KK0	7902136

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



Detailed technical data

Features

Housing	Rectangular
Housing	Standard design
Dimensions (W x H x D)	40 mm x 40 mm x 121 mm
Sensing range S _n	15 mm
Safe sensing range S _a	12.15 mm
Installation type	Flush
Switching frequency	20 Hz ¹⁾ 55 Hz ²⁾
Connection type	Terminal connection with M20 gland
Output function	NC or NO
Output characteristic	Wire configurable
Electrical wiring	AC/DC 2-wire
Enclosure rating	IP65 ³⁾

¹⁾ AC.

²⁾ DC.

 $^{^{}m 3)}$ According to EN 60529.

Mechanics/electronics

Supply voltage	20 V AC/DC 250 V AC/DC
Voltage drop	≤ 6.5 V (AC) ≤ 6 V (DC)
Hysteresis	1 % 15 %
Reproducibility	≤ 10 % ^{1) 2) 3)}
Temperature drift (of S _r)	± 10 %
EMC	As per EN 55011, class B According to EN 60947-5-2
Continuous current I _a	≤ 350 mA ⁴⁾ ≤ 250 mA ⁵⁾ ≤ 100 mA ⁶⁾
Off-state current	≤ 2.5 mA (AC 250 V) ≤ 1.3 mA (AC 110 V) ≤ 0.8 mA (DC 24 V)
Minimum load current	> 5 mA
Short-time withstand current	2.2 A ⁷⁾
Cable gland clamping area	M20 1.5
Wire size	≤ 2.5 mm²
Short-circuit protection	8)
Shock and vibration resistance	30 g, 11 ms / 10 55 Hz, 1 mm
Ambient operating temperature	-25 °C +80 °C
Housing material	Plastic
Sensing face material	Plastic, PPE
Protection class	II .
Rated insulation voltage U _i	250 V AC
Usage category	AC-140 ⁹⁾ DC-13 ¹⁰⁾
Contamination rating	3
Rated impulse withstand voltage	4 kV

 $^{^{1)}\,\}mbox{Supply}$ voltage $\mbox{U}_{\mbox{\footnotesize B}}$ and constant ambient temperature Ta.

Safety-related parameters

MTTF _D	964 years
DC _{avg}	0 %
T _M (mission time)	20 years

²⁾ Of Sr.

³⁾ Repeatability (T_a not constant).

⁴⁾ AC (+50 °C).

⁵⁾ AC (+80 °C).

⁶⁾ DC.

^{7) 20} ms / 0.5 Hz.

 $^{^{8)}}$ Miniature fuse to IEC 60217-2 Sheet 1, \leq 2 A (quick-blow).

 $^{^{9)}}$ Control of small electromagnetic loads with holding currents < 200 mA.

¹⁰⁾ Control of solenoids.

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Reduction factors

Note	The values are reference values which may vary
Stainless steel (V2A, 304)	Approx. 0.7
Aluminum (Al)	Approx. 0.3
Copper (Cu)	Approx. 0.2
Brass (Br)	Approx. 0.4

Installation note

Remark	Associated graphic see "Installation"
A	0 mm
В	40 mm
C	40 mm
D	45 mm
E	0 mm
F	120 mm

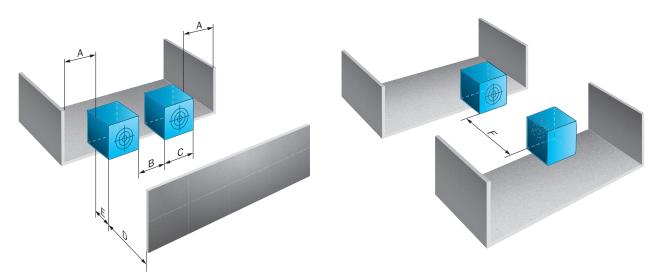
Certificates

EU declaration of conformity	✓
UK declaration of conformity	1
ACMA declaration of conformity	1
Moroccan declaration of conformity	1
China-RoHS	1
CCC certificate	1

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
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

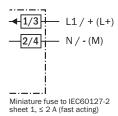
Installation note



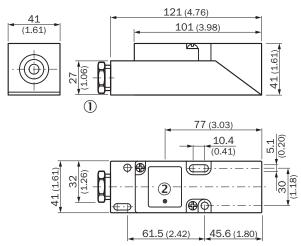
Connection type



Connection diagram Cd-018



Dimensional drawing



Dimensions in mm (inch)

- ① Connection
- ② Display LED

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