

IQ40-40NPPKCOK

INDUCTIVE PROXIMITY SENSORS





Ordering information

Туре	Part no.
IQ40-40NPPKCOK	1071552

Included in delivery: BEF-KH-IQ40 (1)

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



Detailed technical data

Features

Housing	Rectangular
Housing	Short-body
Dimensions (W x H x D)	40 mm x 40 mm x 66 mm
Sensing range S _n	40 mm
Safe sensing range S _a	32.4 mm
Installation type	Non-flush
Switching frequency	100 Hz
Connection type	Male connector M12, 4-pin
Switching output	PNP
Output function	Complementary
Electrical wiring	DC 4-wire
Enclosure rating	IP67, IP68, IP69K
Special applications	Difficult application conditions
Items supplied	Push-lock mounting system (1x)

Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	≤ 10 V _{pp} ¹⁾
Voltage drop	≤ 2 V
Time delay before availability	≤ 200 ms
Hysteresis	3 % 15 % ²⁾
Reproducibility	≤ 6 %
Temperature drift (of S _r)	± 10 %

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

 $^{^{2)}}$ Of S_{r} .

³⁾ Reference voltage: 50 V DC.

Continuous current I _a	≤ 200 mA
No load current	12.5 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 +85 °C
Ambient temperature, storage	-40 °C +85 °C
Housing material	Plastic, PA 66
Sensing face material	Plastic, PA 66
Tightening torque, max.	1.8 Nm
Protection class	II ³⁾
UL File No.	E348498

¹⁾ Of Ub.

Safety-related parameters

MTTF _D	1,125 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. 0.8
Aluminum (AI)	Approx. 0.34
Copper (Cu)	Approx. 0.27
Brass (Br)	Approx. 0.38

Installation note

Remark	Associated graphic see "Installation"
Α	42 mm
В	150 mm
c	40 mm
D	120 mm
E	40 mm
F	150 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

 $^{^{2)}}$ Of S_{r} .

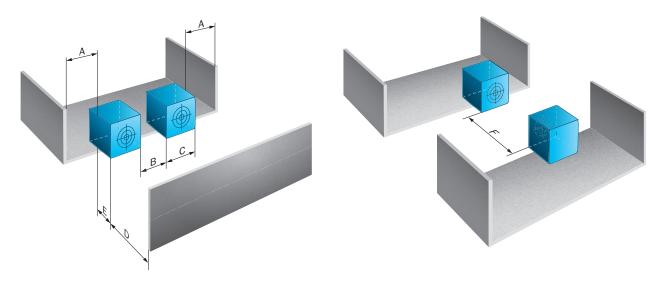
³⁾ Reference voltage: 50 V DC.

IQ40-40NPPKCOK | IQG

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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
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

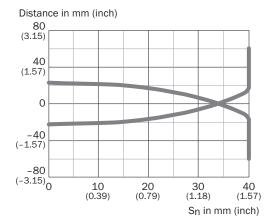


Connection diagram

Cd-009

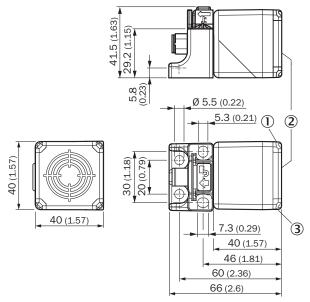
Characteristic curve

IQ40-40Nxxxxx



Dimensional drawing (Dimensions in mm (inch))

IQG Short-body housing



- $\textcircled{1} \ \ \mathsf{LED} \ \mathsf{output} \ \mathsf{state}, \mathsf{yellow}$
- ② Sensing face
- 3 Operational status LED, green

Recommended accessories

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

	Brief description	Туре	Part no.
Plug connectors and cables			
	Head A: female connector, M12, 4-pin, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YF2A14- 050VB3XLEAX	2096235
1	Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YG2A14- 050VB3XLEAX	2095897
	Head A: female connector, M12, 4-pin, straight Cable: unshielded	DOS-1204-G	6007302
	Head A: male connector, M12, 4-pin, straight Cable: unshielded	STE-1204-G	6009932

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