

IQ40-40NNSKCOK

INDUCTIVE PROXIMITY SENSORS



IQ40-40NNSKCOK | IQG

INDUCTIVE PROXIMITY SENSORS



Ordering information

Туре	Part no.	
IQ40-40NNSKCOK	1071854	

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	NPN
Output function	NO
Electrical wiring	DC 3-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	\leq 10 V _{pp} ¹⁾
Voltage drop	≤ 2 V
Time delay before availability	≤ 50 ms
Hysteresis	3 % 15 % ²⁾
Reproducibility	≤ 6 %
Temperature drift (of S _r)	± 10 %

¹⁾ Of Ub.

 $^{2)}$ Of $\mathrm{S}_{\mathrm{r}}.$

³⁾ Reference voltage: 50 V DC.

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Continuous current l _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 (Al)	Approx. 0.34
Copper (Cu)	Approx. 0.27
Brass (Br)	Approx. 0.38

Installation note

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

Classifications

ECLASS 5.0	27270101
ECLASS 5.1.4	27270101
ECLASS 6.0	27270101
ECLASS 6.2	27270101
ECLASS 7.0	27270101

 $^{^{2)}}$ Of S_r.

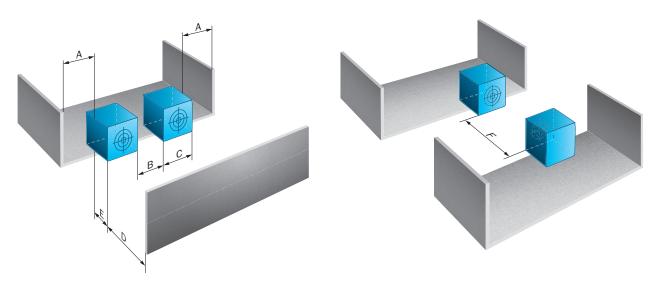
 $^{^{(3)}}$ Reference voltage: 50 V DC.

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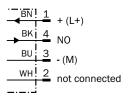
ECLASS 8.0	27270101
ECLASS 8.1	27270101
ECLASS 9.0	27270101
ECLASS 10.0	27270101
ECLASS 11.0	27270101
ECLASS 12.0	27274001
ETIM 5.0	EC002714
ETIM 6.0	EC002714
ETIM 7.0	EC002714
ETIM 8.0	EC002714
UNSPSC 16.0901	39122230

Installation note

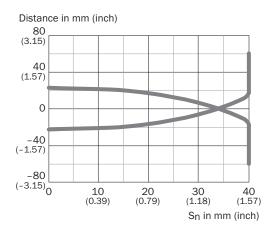


Connection diagram

Cd-011

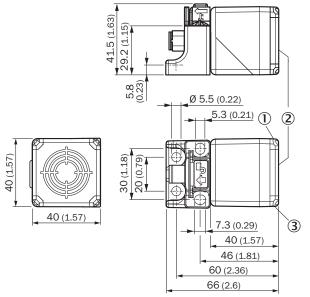


Response diagram



Dimensional drawing (Dimensions in mm (inch))

IQG Short-body housing



① LED output state, yellow

② Sensing face

3 Operational status LED, green

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Recommended accessories

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

	Brief description	Туре	Part no.
Plug connectors and cables			
	 Connection type head A: Female connector, M12, 4-pin, straight Description: Unshielded, Head A: female connector, M12, 4-pin, straight, unshielded, for power supply, for cable diameter 4 mm 6 mm Head B: - Connection systems: Screw-type terminals Permitted cross-section: ≤ 0.75 mm² 	DOS-1204-G	6007302
	 Connection type head A: Male connector, M12, 4-pin, straight Description: Unshielded Connection systems: Screw-type terminals Permitted cross-section: ≤ 0.75 mm² 	STE-1204-G	6009932
Others			
N	 Connection type head A: Female connector, M12, 4-pin, straight, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YF2A14- 050VB3XLEAX	2096235
3	 Connection type head A: Female connector, M12, 4-pin, angled, A-coded Connection type head B: Flying leads Signal type: Sensor/actuator cable Cable: 5 m, 4-wire, PVC Description: Sensor/actuator cable, unshielded Application: Zones with chemicals 	YG2A14- 050VB3XLEAX	2095897

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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.

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."

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