

IQ40-40NDOKCOK

INDUCTIVE PROXIMITY SENSORS





Ordering information

Туре	Part no.
IQ40-40NDOKC0K	1088281

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	150 Hz
Connection type	Male connector M12, 2-pin
Output function	NC
Electrical wiring	DC 2-wire
Enclosure rating	IP67, IP68, IP69K
Special applications	Difficult application conditions

Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	≤ 10 V _{pp} ¹⁾
Voltage drop	$\leq 4 V^{2}$ $\leq 4.5 V^{3}$
Time delay before availability	< 200 ms
Hysteresis	1 % 15 % ⁴⁾
Reproducibility	≤ 2 % ⁵⁾
Temperature drift (of S _r)	± 20 %
Continuous current I _a	≤ 100 mA

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

 $^{^{2)}}$ At I_a = 30 mA.

 $^{^{3)}}$ At I $_{\rm a}$ max.

 $^{^{4)}}$ Of S $_{r}$.

 $^{^{5)}\,\}mathrm{Ub}$ and Ta constant.

 $^{^{6)}}$ Reference voltage: 50 V DC.

Off-state current	≤ 0.8 mA
Minimum load current	≥ 3 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 storage temperature	-40 °C +85 °C
Housing material	Plastic, PA 66
Sensing face material	Plastic, PA 66
Tightening torque, max.	1.8 Nm
Items supplied	Push-lock mounting system (1x)
Protection class	II ⁶⁾
UL File No.	E348498

¹⁾ Of Ub.

Safety-related parameters

MTTF _D	1,406 years
DC _{avg}	0%

Reduction factors

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

Installation note

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

Classifications

ECI@ss 5.0	27270101
ECI@ss 5.1.4	27270101
ECI@ss 6.0	27270101

 $^{^{2)}}$ At I_a = 30 mA.

³⁾ At I_a max.

 $^{^{4)}}$ Of S $_{r}$.

 $^{^{5)}}$ Ub and Ta constant.

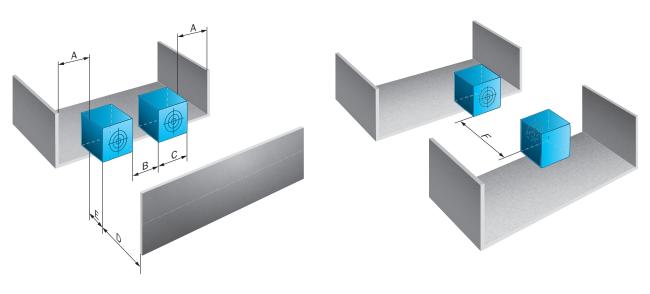
⁶⁾ Reference voltage: 50 V DC.

IQ40-40NDOKCOK | IQG

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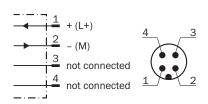
@ss 6.2	27270101
@ss 7.0	27270101
@ss 8.0	27270101
@ss 8.1	27270101
@ss 9.0	27270101
@ss 10.0	27270101
@ss 11.0	27270101
M 5.0	EC002714
M 6.0	EC002714
M 7.0	EC002714
SPSC 16.0901	39122230

Installation note



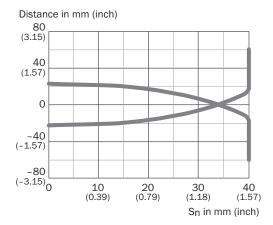
Connection diagram

Cd-442



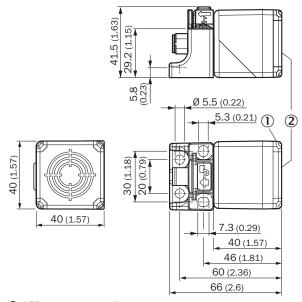
Characteristic curve

IQ40-40Nxxxxx



Dimensional drawing (Dimensions in mm (inch))

IQ40-xxxDxxCxK



- ① LED output state, yellow
- ② Sensing face

Recommended accessories

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

	Brief description	Туре	Part no.
Plug connecto	ors 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
3	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 Head B: - Cable: unshielded	DOS-1204-G	6007302
	Head A: male connector, M12, 4-pin, straight Head B: - Cable: unshielded	STE-1204-G	6009932

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