

# IQ40-40NPPKCOK

**INDUCTIVE PROXIMITY SENSORS** 



INDUCTIVE PROXIMITY SENSORS



## 

Туре	Part no.
IQ40-40NPPKC0K	1071552

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

Ordering information

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 <sub>n</sub>	40 mm
Safe sensing range S <sub>a</sub>	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

#### Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	$\leq$ 10 V <sub>pp</sub> <sup>1)</sup>
Voltage drop	≤ 2 V
Time delay before availability	≤ 200 ms
Hysteresis	3 % 15 % <sup>2)</sup>
Reproducibility	≤ 6 %
Temperature drift (of S <sub>r</sub> )	± 10 %
Continuous current I <sub>a</sub>	≤ 200 mA
Short-circuit protection	✓
Reverse polarity protection	✓

<sup>1)</sup> Of Ub.

 $^{2)}$  Of S<sub>r</sub>.

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

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Power-up pulse protection	$\checkmark$
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
Items supplied	Push-lock mounting system (1x)
Protection class	II <sup>3)</sup>
UL File No.	E348498

<sup>1)</sup> Of Ub.

<sup>2)</sup> Of S<sub>r</sub>.

<sup>3)</sup> Reference voltage: 50 V DC.

#### Safety-related parameters

MTTF <sub>D</sub>	1,406 years
DC <sub>avg</sub>	0 %
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"
A	42 mm
В	150 mm
c	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
ECI@ss 6.2	27270101
ECI@ss 7.0	27270101
ECI@ss 8.0	27270101
ECI@ss 8.1	27270101
ECI@ss 9.0	27270101
ECI@ss 10.0	27270101

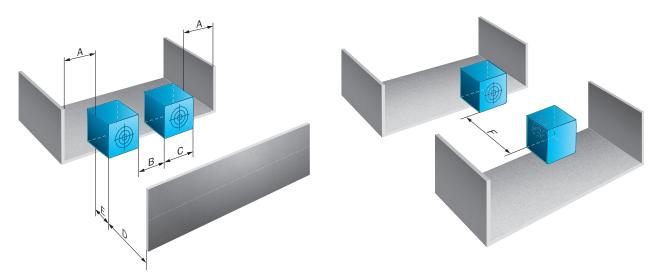
27270101

ECI@ss 11.0

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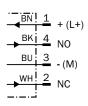
ETIM 5.0	EC002714
ETIM 6.0	EC002714
ETIM 7.0	EC002714
ETIM 8.0	EC002714
UNSPSC 16.0901	39122230

#### Installation note



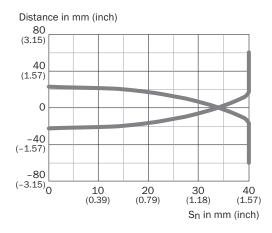
#### **Connection diagram**

Cd-009



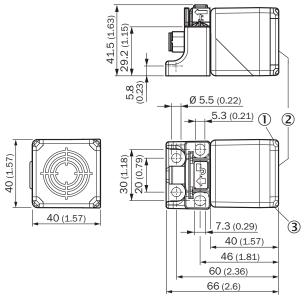
#### Characteristic curve

#### IQ40-40Nxxxxx



#### Dimensional drawing (Dimensions in mm (inch))

IQG Short-body housing



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				
<b>N</b>	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	
	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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SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

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."

## WORLDWIDE PRESENCE:

Contacts and other locations -www.sick.com



Online data sheet

