

IQ40-40NPSKKOS

INDUCTIVE PROXIMITY SENSORS





Ordering information

Туре	Part no.
IQ40-40NPSKK0S	1071851

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









Detailed technical data

Features

Housing	Rectangular
Housing	Standard design
Dimensions (W x H x D)	40 mm x 40 mm x 118 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	Cable gland
Switching output	PNP
Output function	NO
Electrical wiring	DC 3-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	≤ 2 V
Current consumption	20 mA ²⁾
Time delay before availability	≤ 50 ms
Hysteresis	3 % 15 % ³⁾
Reproducibility	≤ 6 %
Temperature drift (of S _r)	± 10 %
Continuous current I _a	≤ 200 mA

¹⁾ Of Ub.

²⁾ Without load.

 $^{^{3)}}$ Of S_{r} .

⁴⁾ Reference voltage: 50 V DC.

Cable gland clamping area	M20 1.5
Wire size	≤ 2.5 mm ²
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
Protection class	II ⁴⁾
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. 0.8
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

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

²⁾ Without load.

 $^{^{3)}}$ Of S_{r}

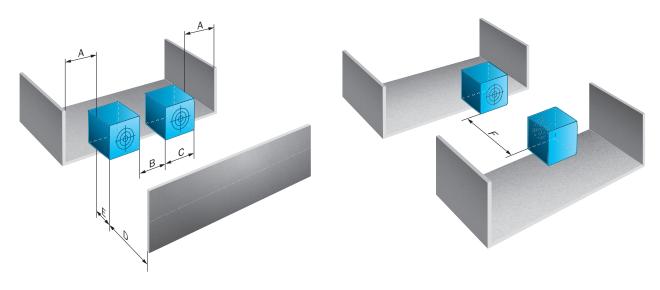
⁴⁾ Reference voltage: 50 V DC.

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INDUCTIVE PROXIMITY SENSORS

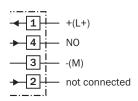
ECI@ss 8.1	27270101
ECI@ss 9.0	27270101
ECI@ss 10.0	27270101
ECI@ss 11.0	27270101
ETIM 5.0	EC002714
ETIM 6.0	EC002714
ETIM 7.0	EC002714
UNSPSC 16.0901	39122230

Installation note



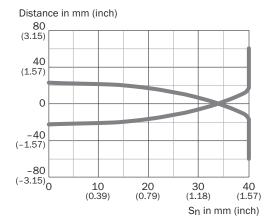
Connection diagram

Cd-342



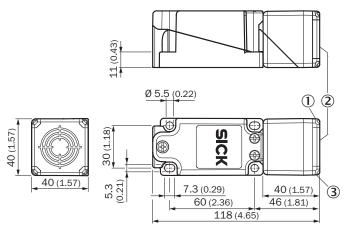
Characteristic curve

IQ40-40Nxxxxx



Dimensional drawing (Dimensions in mm (inch))

IQG Standard, cable gland



- ① LED output state, 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 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

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	Brief description	Туре	Part no.
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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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.

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For us, that is "Sensor Intelligence."

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