

IQ40-20BPPKCOK IQ Standard

INDUCTIVE PROXIMITY SENSORS





Ordering information

Туре	Part no.
IQ40-20BPPKC0K	6037072

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



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	20 mm
Safe sensing range S _a	16.2 mm
Installation type	Flush
Switching frequency	100 Hz
Connection type	Male connector M12, 4-pin ¹⁾
Switching output	PNP
Output function	Complementary
Electrical wiring	DC 4-wire
Enclosure rating	IP67 ²⁾
Special features	Class 2 power source, as per cULus

 $^{^{1)}}$ Rotatable 270°, engaging.

Mechanics/electronics

Supply voltage	10 V DC 36 V DC
Voltage drop	\leq 2.5 V $^{1)}$
Current consumption	25 mA ²⁾
Hysteresis	1 % 20 %
Temperature drift (of S _r)	± 10 %
EMC	According to EN 60947-5-2
Continuous current I _a	≤ 200 mA
Short-circuit protection	✓

 $^{^{1)}\,\}mathrm{With}$ la max and Ub 24 V.

²⁾ According to EN 60529.

²⁾ Without load.

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 +70 °C
Housing material	Plastic
Sensing face material	Plastic, PA6

 $^{^{1)}\,\}mbox{With Ia max}$ and Ub 24 V.

Reduction factors

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

Installation note

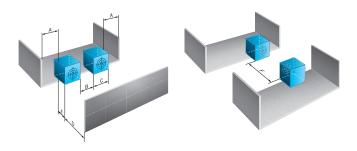
Remark	Associated graphic see "Installation"
A	0 mm
В	40 mm
c	40 mm
D	60 mm
E	0 mm
F	160 mm

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
ETIM 5.0	EC002714
ETIM 6.0	EC002714
UNSPSC 16.0901	39122230

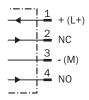
²⁾ Without load.

Installation note

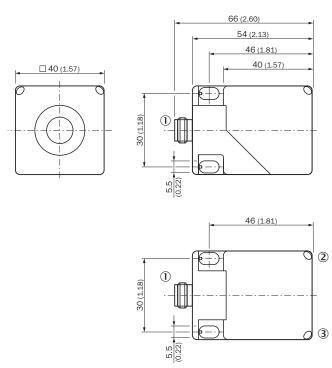


Connection diagram

Cd-010



Dimensional drawing (Dimensions in mm (inch))



- ① M12 connection diagram, 4-pin
- ② LED output state, yellow
- ③ Operational status LED, green

Recommended accessories

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

	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, 2 m	YF2A14- 020VB3XLEAX	2096234
	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, straight, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 10 m	YF2A14- 100VB3XLEAX	2096236
	Head A: female connector, M12, 4-pin, angled, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YG2A14- 020VB3XLEAX	2095895
	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, angled with LED, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 2 m	YI2A14- 020VB3XLEAX	2096222
	Head A: female connector, M12, 4-pin, angled with LED, A-coded Head B: Flying leads Cable: Sensor/actuator cable, PVC, unshielded, 5 m	YI2A14- 050VB3XLEAX	2096223
	Head A: male connector, M12, 4-pin, straight Head B: - Cable: unshielded	STE-1204-G	6009932

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