

IQ40-20BPSKCOK

INDUCTIVE PROXIMITY SENSORS





Ordering information

Туре	Part no.
IQ40-20BPSKC0K	1071840

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	20 mm
Safe sensing range S _a	16.2 mm
Installation type	Flush
Switching frequency	150 Hz
Connection type	Male connector M12, 4-pin
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	≤ 2 %
Temperature drift (of S _r)	± 10 %
Continuous current Ia	≤ 200 mA

¹⁾ Of Ub.

²⁾ Without load.

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

⁴⁾ Reference voltage: 50 V DC.

Short-circuit protection	J.
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 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. 0.71	
Aluminum (AI)	Approx. 0.3	
Copper (Cu)	Approx. 0.25	
Brass (Br)	Approx. 0.36	

Installation note

Remark	Associated graphic see "Installation"
Α	0 mm
В	40 mm
c	40 mm
D	60 mm
E	0 mm
F	70 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

²⁾ Without load.

³⁾ Of S_r.

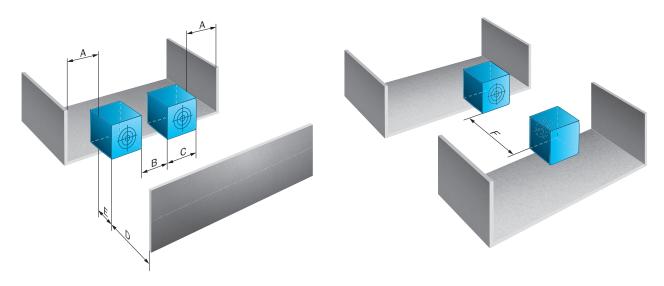
⁴⁾ Reference voltage: 50 V DC.

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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



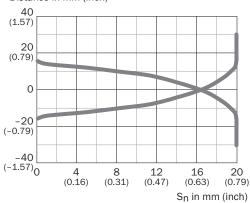
Connection diagram

Cd-011

Characteristic curve

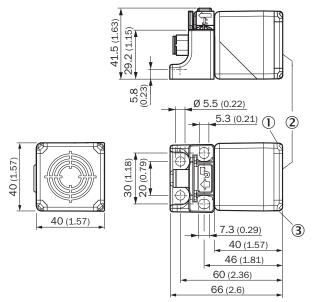
IQ40-20Bxxxxx





Dimensional drawing (Dimensions in mm (inch))

IQG Short-body housing



- ① LED output state, yellow
- ② Sensing face③ Operational status LED, green

Recommended accessories

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

	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, 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
W/S	Head A: male connector, M12, 4-pin, straight Head B: - Cable: unshielded	STE-1204-G	6009932

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