

IQ40-20BPPKCOK

INDUCTIVE PROXIMITY SENSORS





Ordering information

Туре	Part no.
IQ40-20BPPKC0K	1071553

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



Detailed technical data

Features

Housing	Rectangular
Housing	Short-body 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
Output type	PNP
Output function	Complementary
Electrical wiring	DC 4-wire
Enclosure rating	IP67, IP68, IP69K

Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	≤ 10 V _{pp} ¹⁾
Voltage drop	≤ 2 V
Current consumption	\leq 20 mA $^{2)}$
Time delay before availability	≤ 50 ms
Hysteresis	3 % 15 % ³⁾
Reproducibility	≤ 2 %
Temperature drift (of S _r)	± 10 %
Continuous current I _a	≤ 200 mA
Short-circuit protection	✓

¹⁾ Of Ub.

²⁾ Without load.

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

⁴⁾ Reference voltage: 50 V DC.

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.

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

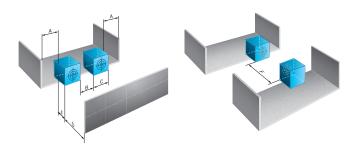
ECI@ss 5.0	27270101
ECI@ss 5.1.4	27270101
ECI@ss 6.0	27270101
ECI@ss 6.2	27270101
ECI@ss 7.0	27270101
ECI@ss 8.0	27270101
ECI@ss 8.1	27270101
ECI@ss 9.0	27270101
ETIM 5.0	EC002714
ETIM 6.0	EC002714
UNSPSC 16.0901	39122230

²⁾ Without load.

³⁾ Of S_r.

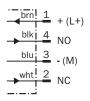
⁴⁾ Reference voltage: 50 V DC.

Installation note



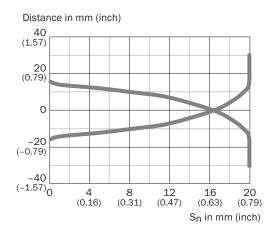
Connection diagram

Cd-009



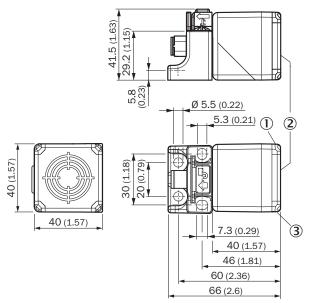
Characteristic curve

IQ40-20Bxxxxx



Dimensional drawing (Dimensions in mm (inch))

IQG Short-body housing



- 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 Head B: cable Cable: PVC, unshielded, 2 m	DOL-1204-G02M	6009382
	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: PVC, unshielded, 5 m	DOL-1204-G05M	6009866
	Head A: female connector, M12, 4-pin, straight Head B: cable Cable: PVC, unshielded, 10 m	DOL-1204-G10M	6010543
	Head A: female connector, M12, 4-pin, angled with LED Head B: cable Cable: PVC, unshielded, 2 m	DOL-1204-L02M	6027945
	Head A: female connector, M12, 4-pin, angled with LED Head B: cable Cable: PVC, unshielded, 5 m	DOL-1204-L05M	6027944
	Head A: female connector, M12, 4-pin, angled with LED Head B: cable Cable: PVC, unshielded, 10 m	DOL-1204-L10M	6027946

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Brief description	Туре	Part no.
Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 2 m	DOL-1204-W02M	6009383
Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 5 m	DOL-1204-W05M	6009867
Head A: female connector, M12, 4-pin, angled Head B: cable Cable: PVC, unshielded, 10 m	DOL-1204-W10M	6010541
Head A: female connector, M12, 4-pin, straight Head B: - Cable: unshielded	DOS-1204-G	6007302
Head A: female connector, M12, 4-pin, angled Head B: - Cable: unshielded	DOS-1204-W	6007303

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