

IQ40-20BPPKKOS

INDUCTIVE PROXIMITY SENSORS



INDUCTIVE PROXIMITY SENSORS



Ordering information

Туре	Part no.
IQ40-20BPPKK0S	1071860

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



Detailed technical data

Features

Handay	Destaurtulan
Housing	Rectangular
Housing	Standard design
Dimensions (W x H x D)	40 mm x 40 mm x 118 mm
Sensing range S _n	20 mm
Safe sensing range S _a	16.2 mm
Installation type	Flush
Switching frequency	150 Hz
Connection type	Cable gland
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	≤ 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

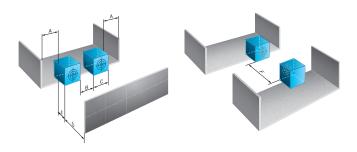
ECI@ss 5.0	27270101
ECI@ss 5.1.4	27270101
ECI@ss 6.0	27270101
ECI@ss 6.2	27270101
ECI@ss 7.0	27270101
ECI@ss 8.0	27270101
ECI@ss 8.1	27270101
ECI@ss 9.0	27270101
ETIM 5.0	EC002714
ETIM 6.0	EC002714
UNSPSC 16.0901	39122230

²⁾ Without load.

³⁾ Of S_r.

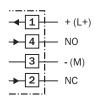
⁴⁾ Reference voltage: 50 V DC.

Installation note



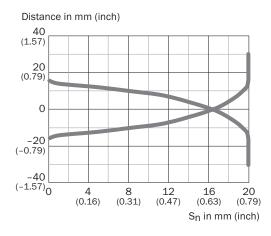
Connection diagram

Cd-030



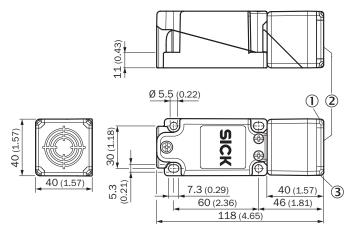
Characteristic curve

IQ40-20Bxxxxx



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 connect	Plug connectors 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	
	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	

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Brief description	Туре	Part no.
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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