

IQ20-07BPSDU2S

INDUCTIVE PROXIMITY SENSORS





Ordering information

Туре	part no.
IQ20-07BPSDU2S	6045180

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



Detailed technical data

Features

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Housing	Rectangular
Dimensions (W x H x D)	20 mm x 32 mm x 8 mm
Sensing range S _n	7 mm
Safe sensing range S _a	5.67 mm
Installation type	Flush
Switching frequency	150 Hz
Connection type	Cable, 3-wire, 2 m
Switching output	PNP
Switching output detail	PNP
Output function	NO
Electrical wiring	DC 3-wire
Enclosure rating	IP67 ¹⁾

¹⁾ According to EN 60529.

Mechanics/electronics

Supply voltage	10 V DC 30 V DC
Ripple	≤ 10 % ¹⁾
Voltage drop	< 2.5 V ²⁾
Time delay before availability	≤ 20 ms
Hysteresis	1 % 15 %
Reproducibility	± 5 % ^{3) 4)}
Temperature drift (of S _r)	± 10 %
EMC	According to EN 60947-5-2
Continuous current I _a	≤ 200 mA

 $^{^{1)}}$ Of V_{S} .

²⁾ At L may

 $^{^{\}rm 3)}$ Supply voltage U_B and constant ambient temperature Ta.

⁴⁾ Of Sr.

Cable material	PUR
Short-circuit protection	✓
Shock and vibration resistance	30 g, 11 ms / 10 55 Hz, 1 mm
Ambient operating temperature	-25 °C +70 °C
Housing material	Zinc diecast, GD Zn
Sensing face material	Plastic, PA12

 $^{^{1)}}$ Of V_{S} .

Safety-related parameters

MTTF _D	1,080 years
DC _{avg}	0%
T _M (mission time)	20 years

Reduction factors

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

Installation note

Remark	Associated graphic see "Installation"
A	0 mm
В	20 mm
c	20 mm
D	21 mm
E	0 mm
F	60 mm

Certificates

EU declaration of conformity	✓
China RoHS	✓
cULus certificate	✓

Classifications

ECLASS 5.0	27270101
ECLASS 5.1.4	27270101
ECLASS 6.0	27270101
ECLASS 6.2	27270101
ECLASS 7.0	27270101
ECLASS 8.0	27270101
ECLASS 8.1	27270101

²⁾ At I_a max.

 $^{^{\}rm 3)}$ Supply voltage ${\rm U_B}$ and constant ambient temperature Ta.

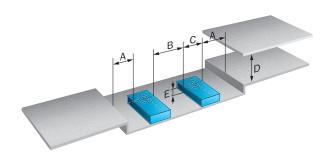
⁴⁾ Of Sr

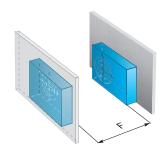
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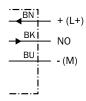
ECLASS 9.0	27270101
ECLASS 10.0	27270101
ECLASS 11.0	27270101
ECLASS 12.0	27274001
ETIM 5.0	EC002714
ETIM 6.0	EC002714
ETIM 7.0	EC002714
ETIM 8.0	EC002714
UNSPSC 16.0901	39122230

Installation note

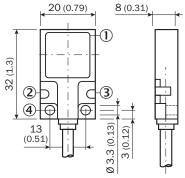




Connection diagram Cd-001



Dimensional drawing IQ20, cable



Dimensions in mm (inch)

- ① Sensing face
- ② operational status LED, green

- ③ LED output state, yellow④ fixing hole

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