

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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IQ20-07BPPDQ0S

INDUCTIVE PROXIMITY SENSORS





Ordering information

Туре	Part no.
IQ20-07BPPDQ0S	6042045

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



Detailed technical data

Features

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 with M12 male connector, 4-pin, 0.3 m
Switching output	PNP
Output function	Complementary
Electrical wiring	DC 4-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	$< 2.5 V^{2}$
Current consumption	15 mA ³⁾
Time delay before availability	≤ 20 ms
Hysteresis	1 % 15 %
Reproducibility	± 5 % ^{4) 5)}
Temperature drift (of S _r)	± 10 %
EMC	According to EN 60947-5-2

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

²⁾ At I_a max.

³⁾ Without load.

 $^{^{4)}}$ Ub and Ta constant.

⁵⁾ Of Sr.

Continuous current I _a	≤ 200 mA
Cable material	PUR
Short-circuit protection	✓
Reverse polarity protection	✓
Shock and vibration resistance	30 g, 11 ms / 10 55 Hz, 1 mm
Ambient operating temperature	-25 °C +70 °C
Housing material	Metal, GD Zn
Sensing face material	Plastic, PA12

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

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	20 mm
С	20 mm
D	21 mm
E	0 mm
F	60 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

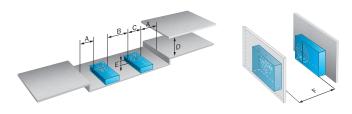
²⁾ At I_a max.

³⁾ Without load.

⁴⁾ Ub and Ta constant.

⁵⁾ Of Sr.

Installation note



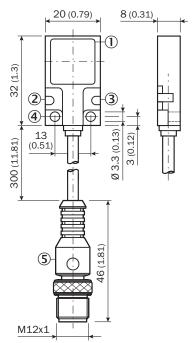
Connection diagram

cd-006



Dimensional drawing (Dimensions in mm (inch))

IQ20, cable with M12 male connector, 4-pin



- ① Sensing face
- ② Operational status LED, green
- 3 LED output state, yellow
- Fixing hole
- ⑤ Connection

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is "Sensor Intelligence."

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