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Product data sheet



IQ20-07BPPDU5S

IQV

INDUCTIVE PROXIMITY SENSORS

SICK
Sensor Intelligence.

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IQ20-07BPPDU5S | IQV

INDUCTIVE PROXIMITY SENSORS



Ordering information

Type	Part no.
IQ20-07BPPDU5S	6072660

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, 4-wire, 5 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]
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
Cable material	PUR
Short-circuit protection	✓

[1] Of V_S.
[2] At I_a max.
[3] Ub and Ta constant.
[4] Of Sr.

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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	Zinc diecast, GD Zn
Sensing face material	Plastic, PA12
UL File No.	E191603

[1] Of V_S.
[2] At I_a max.
[3] Ub and Ta constant.
[4] Of Sr.

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
B	20 mm
C	20 mm
D	21 mm
E	0 mm
F	60 mm

Classifications

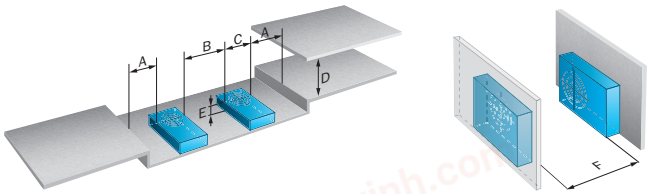
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ETIM 5.0	EC002714
ETIM 6.0	EC002714
ETIM 7.0	EC002714
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UNSPSC 16.0901	39122230

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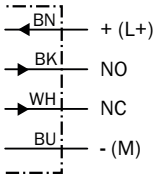
INDUCTIVE PROXIMITY SENSORS

Installation note



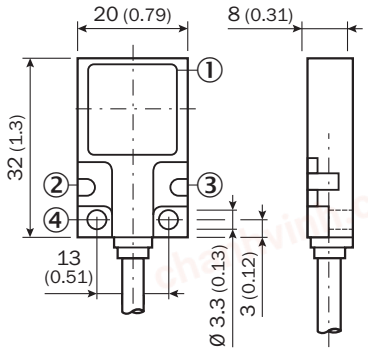
Connection diagram

Cd-005



Dimensional drawing (Dimensions in mm (inch))

IQ20, cable



① Sensing face
② Operational status LED, green
③ LED output state, yellow
④ Fixing hole

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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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