

SICK S30B-3011CA

SICK S30B-3011CA Safety Laser Scanner S300 Advanced 0m to 8m Male Conn M12 5Pin

Product Attribute

Attribute Value

Alternate Mfr Part Number 1056428

Brand SICK

Connection Type System plug with or without connecting cable

Housing Material Aluminum die cast

IP Rating IP65

Manufacturer Part Number S30B-3011CA

Measuring Range 8 m

Numeric ID 4079255

Operating Voltage 24 V

Operating Voltage Range 16.8 to 30 V

Output Type 2 PNP semiconductors, short-circuit protected, cross-circuit monitored

Resolution 14 mm

Response Time 80 ms (depending on basic response time and multiple sampling) μ s

Series S300 Series

Shock Resistance 16 g, 16 ms (IEC 60068-2-29)

Type Safety Laser Scanner

Weight 1.2 kg

Features

Product version S300 Advanced

Model Sensor without system plug

Application Indoor

Protective field range 3 m

Warning field range 8 m (at 15 % reflectivity)

Distance measuring range 30 m

Type of field set Triple field sets

Number of field sets 4

Number of fields 12

Number of monitoring cases 4

Scanning angle 270°

Resolution (can be configured) 30 mm, 40 mm, 50 mm, 70 mm, 150 mm

Angular resolution 0.5°

Response time 80 ms

Protective field supplement 100 mm

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Number of multiple samplings 2 ... 16, configurable

Delay of automatic reset 2 s ... 60 s, configurable

Safety-related parameters

Type Type 3 (IEC 61496)

Safety integrity level SIL 2 (IEC 61508)

Category Category 3 (EN ISO 13849)

Performance level PL d (EN ISO 13849)

PFHD (mean probability of a dangerous failure per hour)

8.0×10^{-8}

TM (mission time) 20 years (EN ISO 13849)

Safe state in the event of a fault At least one OSSD is in the OFF state

Connection type System plug with or without connecting cable

Universal I/Os 5

Inputs

External device monitoring (EDM) 1

Reset/restart 1

Static control inputs 2

Static control inputs with EFI 5

Standby 1

Outputs

OSSD pairs 1

Application diagnostic outputs 3

Configuration method PC with CDS (Configuration and Diagnostic Software)

Configuration and diagnostics interface RS-232

Transmission rate 38.4 kBaud

Data interface RS-422

Transmission rate ≤ 500 kBaud

Safe SICK device communication via EFI

Transmission rate ≤ 500 kBaud

Length of cable ≤ 50 m

Conductor cross section 0.22 mm^2

Electronics

Protection class III (EN 50178, EN 60950)

Supply voltage V_s 24 V DC (16.8 V DC ... 30 V DC)

Power consumption 0.33 A

1.7 A

Outputs

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Output signal switching devices (OSSDs) 2 x 250 mA

Application diagnostic outputs 3 x 100 mA

Mechanics

Dimensions (W x H x D) 102 mm x 152 mm x 106 mm

Weight 1.2 kg

Housing material Aluminum die cast

Housing color RAL 1021 (yellow)

Optics cover material Polycarbonate

Optics cover surface finish Outside with scratch-resistant coating

Ambient data

Enclosure rating IP65 (EN 60529)

Ambient operating temperature $-10^{\circ}\text{C} \dots +50^{\circ}\text{C}$

Storage temperature $-25^{\circ}\text{C} \dots +50^{\circ}\text{C}$

Vibration resistance IEC 60068-2-6, IEC 60068-2-64, IEC 60721-3-5, IEC TR 60721-4-5, IEC 61496-3

Class 5M1 (IEC 60721-3-5)

Shock resistance IEC 60068-2-27, IEC 60721-3-5, IEC TR 60721-4-5, IEC 61496-3

Class 5M1 (IEC 60721-3-5)

Continuous shock 50 m/s^2 , 11 ms

100 m/s^2 , 16 ms

Other information

Type of light Pulsed laser diode

Wave length 905 nm

Detectable remission factor 1.8 % ... > 1,000 %, reflectors

Laser class 1 (21 CFR 1040.10 and 1040.11, IEC 60825-1)

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