

SICK S30B-2011BA

SICK S30B-2011BA Safety Laser Scanner S300 Standard 0m to 19m Male Conn M12 5Pin

Features

Product version S300 Standard

Model Sensor without system plug

Application Indoor

Protective field range 2 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 1

Number of fields 3

Number of monitoring cases 1

Scanning angle 270°

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

Angular resolution 0.5°

Response time 80 ms

Protective field supplement 100 mm

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 x 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.

Functions

Restart interlock ✓

External device monitoring (EDM) ✓

Multiple sampling ✓

Contour as a reference ✓

Integrated configuration memory ✓

Measured data output Via RS-422

You can contact us through the following contact information

www.sparetechplc.com +86 180 3000 5825 sales@sparetechplc.com

Safe SICK device communication via EFI ✓

Interfaces

Connection type System plug with or without connecting cable

Universal I/Os 5

Inputs

External device monitoring (EDM) 1

Reset/restart 1 2)

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 $\leq$ 500 kBaud

Safe SICK device communication via EFI

Transmission rate $\leq$ 500 kBaud

Length of cable $\leq$ 50 m

Conductor cross section 0.22 mm²

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

Power consumption 0.33 A

1.7 A

Outputs

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)

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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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