

SICK LMS100-10000

SICK 2D laser scanners LMS100-10000 Indoor

Features

Application Indoor

Light source Infrared (905 nm)

Laser class 1 (IEC 60825-1:2014, EN 60825-1:2014+A11:2021)

Aperture angle

Horizontal 270°

Scanning frequency 25 Hz

50 Hz

Angular resolution

Horizontal 0.25°

0.5°

Heating No

Working range 0.5 m ... 20 m

Scanning range

At 10% remission factor 18 m

At 90% remission factor 20 m

Amount of evaluated echoes 2

Fog correction Yes

Mechanics/electronics

Connection type 1 x system plug with screw terminal block

Supply voltage 10.8 V DC ... 30 V DC

Power consumption 22 W

Housing color Light blue (RAL 5012)

Enclosure rating IP65 (EN 60529, Section 14.2.5)

Protection class III (EN 61010-1:2010-10)

Weight 1.1 kg

Dimensions (L x W x H) 105 mm x 102 mm x 152 mm

MTBF > 100 years

Safety-related parameters

MTTFD > 100 years

Performance

Response time $\geq$ 20 ms

Detectable object shape Almost any

Systematic error $\pm$ 30 mm 1)

Statistical error 12 mm 1)

Integrated application Field evaluation

You can contact us through the following contact information

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

Number of field sets 10 fields

Simultaneous evaluation cases 10

1) Typical value; actual value depends on environmental conditions.

Interfaces

Ethernet ✓ , TCP/IP

Function Data interface (read result output)

Data transmission rate 10/100 MBit/s

Serial ✓ , RS-232

Function Data interface (read result output), Service interface

Data transmission rate 9.6 kBaud ... 115.2 kBaud

CAN ✓

Function Extension of outputs

Digital inputs/outputs

Inputs 2 digital and 2 encoder inputs

Outputs 3

Optical indicators 7-segment display (plus 5 LEDs showing device status, contamination warning and initial condition)

Ambient data

Object remission 3 % ... > 1,000 % (reflectors)

Electromagnetic compatibility (EMC) EN 61000-6-2:2005 / EN 61000-6-3:2007+A1:2011

Vibration resistance EN 60068-2-6 (1995-04)

Shock resistance EN 60068-2-27 (1993-03)

Ambient operating temperature 0 ° C ... +50 ° C

Storage temperature - 30 ° C ... +70 ° C

Ambient light immunity 80,000 lx

General notes

Note on use The sensor does not constitute a safety component as defined by relevant legislation on machine safety.

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