

SICK LMS400-2000

SICK 2D laser scanners LMS400-2000 Indoor

Detailed technical data

Features

Application Indoor

Reading field Front

Light source Visible red light (650 nm)

Laser class 2, in standby operation laser class 1 (IEC 60825-1:2014, EN 60825-1:2014)

Scanning frequency 300 Hz ... 500 Hz

Angular resolution

Horizontal 0.1° ... 1.0° , configurable

Working range 0.7 m ... 3 m

Scanning range

At 10% remission factor 3 m

Mechanics/electronics

Supply voltage ≤ 24 V DC, ± 15 %

Power consumption 25 W

Housing material Aluminum die cast

Housing color Light blue (RAL 5012)

Enclosure rating IP65 (EN 60529, Section 14.2.7)

Weight 2.3 kg

Dimensions (L x W x H) 179 mm x 107 mm x 130 mm

1) With plug housing.

Performance

Response time ≥ 2 ms

Detectable object shape Almost any

Systematic error ± 4 mm

Statistical error 3 mm

Integrated application Level Control

Interfaces

Ethernet ✓ , TCP/IP

Function Data interface (read result output)

Data transmission rate 10 Mbit/s, half-duplex

Serial ✓ , RS-232

Function Data interface (read result output), Service interface

Digital inputs 4

Digital outputs 5 (4 x PNP / analog 1 x 4 mA ... 20 mA)

Optical indicators 6 LEDs

You can contact us through the following contact information

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Ambient data

Object remission 4.5 % ... 100 %

Electromagnetic compatibility (EMC) EN 61000G6G2:2001 / EN 61000G6G4:2001

Vibration resistance EN 60068G2G6, G27, G29, G64

Shock resistance EN 60068G2G6, G27, G29, G64

Ambient operating temperature 0 ° C ... +40 ° C

Storage temperature - 20 ° C ... +70 ° C

General notes

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

Selectable region of interest (ROI) From 50 mm x 3,000 mm to 1,000 mm x 1,750 mm

Number of columns Up to 50 equidistant or 30 freely positionable

Minimum column width $\geq$ 50 mm

Minimum detectable object 30 mm x 30 mm

Smallest height threshold above the container floor

30 mm

Switching threshold output Telegram, digital outputs or analog output

Output of height values in the columns Telegram, Analog output



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