Laser Measurement Technology
LMC1xx / LMC12x / Security / Indoor / Short Range

LMC123-11000 VdS

SICK
Sensor Intelligence.

Model Name	**> LMC123-11000 VdS**
Part No.	**> 1051301**

At a glance

- The only VdS-certified laser scanner on the market (German certificate standard)
- Highest class "C" with environmental class II or IVa
- Flexible connection to DC 9 V to 30 V
- Two isolated relays (alarms) and one obstruction output
- Long detection range of 20 m, horizontal and vertical
- Up to 10 freely definable monitoring fields with intelligent evaluation algorithms
- Certified QuickStart menu
- 200 RAL colors available

Your benefits

- VdS certification for proven and reliable system acceptance by insurance companies (German certificate standard)
- High angular resolution provides a secure solution that improves reliability
- Secure, reliable detection with few false alarms due to precise field configuration of the detection area
- Small size provides unobtrusive solution
- Intelligent evaluation provides maximum application flexibility
- Easy integration into existing alarm management systems
- Low maintenance due to high immunity against environmental influences
- Cost-effective retrofitting due to low installation and wiring costs

Features

Field of application:	Indoor, Security
Version:	Short Range
Light source:	Infrared (905 nm)
Laser class:	1 (IEC 60825-1 (2007-3))
Field of view:	270 °
Scanning frequency:	50 Hz
Angular resolution:	0.25 ° 0.5 °
Operating range:	0.5 m ... 20 m
Max. range with 10 % reflectivity:	18 m
Amount of evaluated echoes:	2

Performance

Response time:	20 ms
Detectable object shape:	Almost any
Systematic error:	± 30 mm
Statistical error:	± 12 mm
Integrated application:	Field evaluation
Number of field sets:	10 fields
Simultaneous processing cases:	10

Interfaces

Serial (RS-232):	✓
Function (Serial (RS-232)):	Host, AUX
Data transmission rate (Serial (RS-232)):	9.6 kBaud ... 115.2 kBaud
Ethernet:	✓
Function (Ethernet):	Host
Data transmission rate (Ethernet):	10/100 Mbit
Protocol (Ethernet):	TCP/IP
CAN bus:	✓
Function (CAN bus):	Outputs extension
PROFIBUS:	-
PROFINET:	-
DeviceNet:	-
Switching inputs:	4 (2 x IN, 2 x increment (1-phase))
Switching outputs:	3 (2 relay, 1 digital)
Optical indicators:	1 7-segment display (plus 5 LEDs showing device status, contamination warning and initial condition, both can be activated)

Mechanics/electronics

Electrical connection:	1 system plug with screw terminal block
Operating voltage:	9 V DC ... 30 V DC
Power consumption:	20 W
Housing color:	signal white (RAL 9003)
Enclosure rating:	IP 65 (EN 60529, Section 14.2.5)
Protection class:	III (EN 50178 (1997;10))
Weight:	1.1 kg, without connecting cables
Dimensions:	105 mm x 102 mm x 152 mm

Ambient data

Object remission:	2 % ... > 1,000 % (reflectors)
Electromagnetic compatibility (EMC):	EN 61000-6-2:2005 ⁄ EN 61000-6-4 (2007-01)
Vibration resistance:	EN 60068-2-6 (1995-04)
Shock resistance:	EN 60068-2-27 (1993-03)
Ambient operating temperature:	0 °C ... 45 °C
Storage temperature:	-30 °C ... 70 °C
Ambient light safety:	40,000 lx

General notes

Items supplied:	Mounting protection bracket VdS 1 (long), LMS12x VdS (indoor)

Operating range diagram

Scanning range in m (feet)

30 (98.43)
20 (65.62)
10 (32.81)
0
10 (32.81)
20 (65.62)
30 (98.43)

270°

30 (98.43) 20 (65.62) 10 (32.81) 0 10 (32.81) 20 (65.62) 30 (98.43)

Scanning range in m (feet)

■ Scanning range max. 20 m (65.62 feet)
■ Scanning range for objects up to
10 % remission 18 m (59.06 feet)