



# LMC133-11101 VdS

LMC1xx

2D LASER SCANNERS

**SICK**  
Sensor Intelligence.



### Ordering information

Type	Part no.
LMC133-11101 VdS	1051489

Other models and accessories → [www.sick.com/LMC1xx](http://www.sick.com/LMC1xx)



### Detailed technical data

#### Features

<b>Version</b>	Short Range
<b>Field of application</b>	Security Outdoor
<b>Light source</b>	Infrared (905 nm)
<b>Laser class</b>	1 (IEC 60825-1 (2007-3))
<b>Aperture angle</b>	270°
<b>Scanning frequency</b>	50 Hz
<b>Angular resolution</b>	0.25° 0.5°
<b>Heating</b>	Yes
<b>Operating range</b>	0.5 m ... 20 m
<b>Max. range with 10 % reflectivity</b>	18 m
<b>Amount of evaluated echoes</b>	2

#### Performance

<b>Response time</b>	≥ 20 ms
<b>Detectable object shape</b>	Almost any
<b>Systematic error</b>	± 30 mm <sup>1)</sup>
<b>Statistical error</b>	± 12 mm <sup>1)</sup>
<b>Integrated application</b>	Field evaluation with flexible fields, security conform parameterization
<b>Number of field sets</b>	10 fields
<b>Simultaneous evaluation cases</b>	10

<sup>1)</sup> Typical value; actual value depends on environmental conditions.

#### Interfaces

<b>Serial (RS-232)</b>	✓
Function	Host, AUX
Data transmission rate	9.6 kBaud ... 115.2 kBaud

<b>Ethernet</b>	✓
Function	Host
Data transmission rate	10/100 MBit/s
Protocol	TCP/IP
<b>CAN bus</b>	✓
Function	Extension of outputs
<b>Switching inputs</b>	4 digital
<b>Switching outputs</b>	3 (2 relay, 1 digital)
<b>Optical indicators</b>	1 7-segment display (plus 5 LEDs showing device status, contamination warning and initial condition, both can be activated)

## Mechanics/electronics

<b>Electrical connection</b>	1 x system plug with screw terminal block
<b>Operating voltage</b>	9 V DC ... 30 V DC
<b>Power consumption</b>	20 W, typ. 8 W, heating typ. 35 W
<b>Housing color</b>	Signal white (RAL 9003)
<b>Enclosure rating</b>	IP 67 (EN 60529, Section 14.2.5)
<b>Protection class</b>	III (EN 50178 (1997;10))
<b>Weight</b>	1.1 kg, without connecting cables
<b>Dimensions (L x W x H)</b>	105 mm x 102 mm x 152 mm

## Ambient data

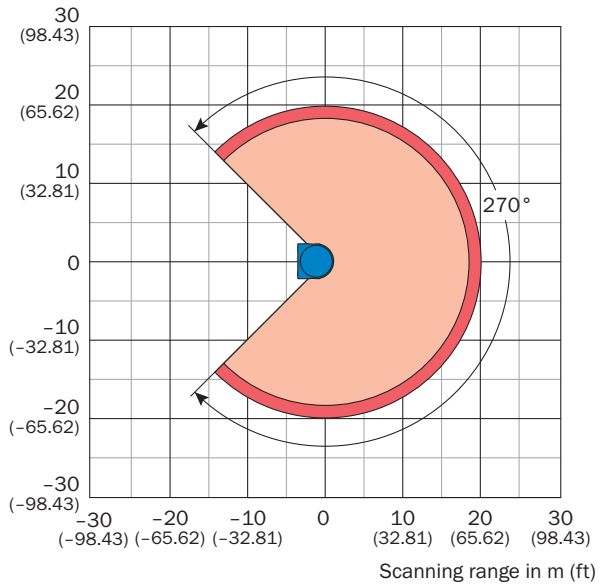
<b>Object remission</b>	2 % ... > 1,000 % (reflectors)
<b>Electromagnetic compatibility (EMC)</b>	EN 61000-6-2:2005 / EN 61000-6-4 (2007-01)
<b>Vibration resistance</b>	EN 60068-2-6 (1995-04)
<b>Shock resistance</b>	EN 60068-2-27 (1993-03)
<b>Ambient operating temperature</b>	-30 °C ... +50 °C
<b>Storage temperature</b>	-30 °C ... +70 °C
<b>Ambient light immunity</b>	40,000 lx

## General notes

<b>Items supplied</b>	LMS13x VdS (Outdoor), Mounting protection bracket VdS 2 (short)
<b>Note on use</b>	Not suitable for personnel protection

### Operating range diagram

Scanning range in m (ft)



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

## SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

## WORLDWIDE PRESENCE:

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