



Laser scanners  
LMS1xx / LMS11x / Outdoor

LMS111-10100



**Type** > [LMS111-10100](#)  
**Part No.** > [1041114](#)

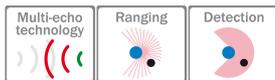


**At a glance**

- Economical measurement sensor
- Real-time output of measurement data via Ethernet interface
- Field evaluation using intelligent algorithms and programmable applications
- Number of switching outputs can be expanded via external CAN modules
- Parameter setting interface is accessible from the front while the device is mounted
- Rugged IP 67-rated housing
- Integrated heater

**Your benefits**

- Straightforward integration and mounting due to compact design
- Low purchase and operating costs: One device can monitor areas of over 5,500 m<sup>2</sup> in size
- Product family with many variants, which also provide solutions for demanding and specialized applications
- Extended filter options significantly reduce measurement errors caused by conditions such as fog, rain or snow
- Optional CAN I/O module increases number of switching outputs for greater application flexibility
- Ethernet interface enables straightforward implementation and remote maintenance



**Features**

Field of application:	Outdoor
Light source:	Infrared (905 nm)
Laser class:	1 (IEC 60825-1 (2007-3))
Aperture angle:	270 °
Scanning frequency:	25 Hz/50 Hz
Angular resolution:	0.25 ° 0.5 °
Heating:	Yes
Operating range:	0.5 m ... 20 m
Max. range with 10 % reflectivity:	18 m
Amount of evaluated echoes:	2
Fog correction:	Yes

## Performance

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Response time:	≥ 20 ms
Detectable object shape:	Almost any
Systematic error <sup>1)</sup> :	± 30 mm
Statistical error <sup>2)</sup> :	12 mm
Integrated application:	Field evaluation with flexible fields
Number of field sets:	10 fields
Simultaneous evaluation cases:	10

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

## Interfaces

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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/s
Protocol (Ethernet):	TCP/IP, OPC
CAN bus:	✓
Function (CAN bus):	Outputs extension
PROFIBUS DP:	-
PROFINET:	-
DeviceNet:	-
Switching inputs:	2 digital and 2 encoder inputs
Switching outputs:	3
Optical indicators:	1 7-segment display (plus 5 LEDs showing device status, contamination warning and initial condition)

## Mechanics/electronics

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Electrical connection:	1 x M12 circular plug-in connector
Operating voltage:	10.8 V DC ... 30 V DC
Power consumption:	Typ. 8 W, heating typ. 35 W
Housing color:	Gray (RAL 7032)
Enclosure rating:	IP 67 (EN 60529, Section 14.2.7)
Protection class:	III (EN 50178 (1997;10))
Weight:	1.1 kg
Dimensions (L x W x H):	105 mm x 102 mm x 162 mm

## Ambient data

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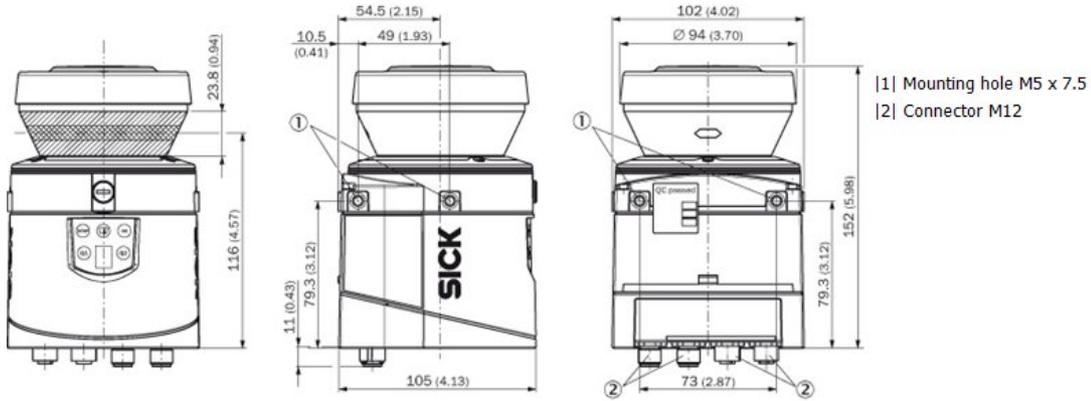
Object remission:	2 % ... > 1,000 % (reflectors)
Electromagnetic compatibility (EMC):	EN 61000-6-2:2005/EN 61000-6-4 (2007-01)
Vibration resistance:	EN 60068-2-6 (1995-04)
Shock resistance:	EN 60068-2-27 (1993-03)
Ambient operating temperature:	-30 °C ... +50 °C
Storage temperature:	-30 °C ... +70 °C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

## General notes

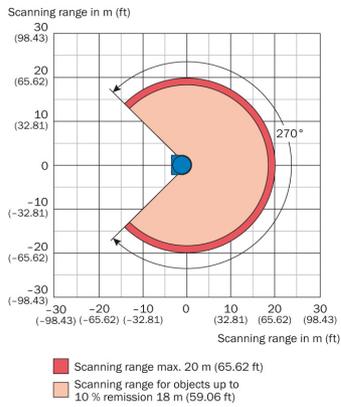
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Note on use:	Not suitable for personnel protection
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## Dimensional drawing



## Operating range diagram



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