

ONLINE DATA SHEET
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Laser scanners
LMS1xx / LMS11x / Outdoor

LMS111-10100



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Sensor Intelligence.

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Model Name > 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 m2 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))
Field of view:	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

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Performance

Response time:	≥ 20 ms
Detectable object shape:	Almost any
Systematic error [1]:	± 30 mm
Statistical error [2]:	± 12 mm
Integrated application:	Field evaluation
Number of field sets:	10 fields
Simultaneous processing cases:	10

[1] [2] Typical value; actual value depends on environmental conditions.

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

Mechanics/electronics

Electrical connection:	1 x M12 circular plug-in connector
Operating voltage:	10.8 V DC ... 30 V DC
Power consumption:	60 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, without connecting cables
Dimensions:	105 mm x 102 mm x 162 mm

Ambient data

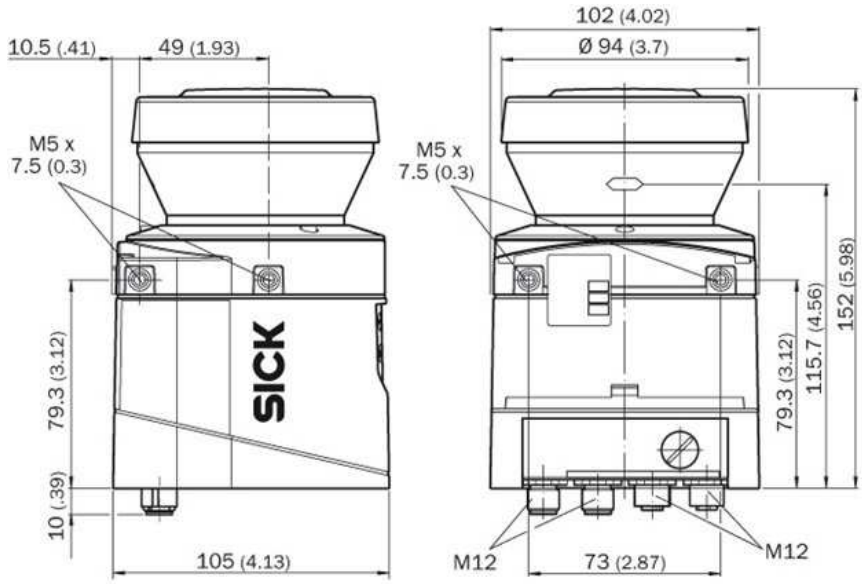
Object remission:	2 % ... > 1,000 % (reflectors)
Electromagnetic compatibility (EMC):	EN 61000-6-2:2005/EN 61000-6-4 (2007-01)
Vibration resistance:	EN 60068-2-6 (1995-04)
Shock resistance:	EN 60068-2-27 (1993-03)
Ambient operating temperature:	-30 °C ... +50 °C
Storage temperature:	-30 °C ... +70 °C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

General notes

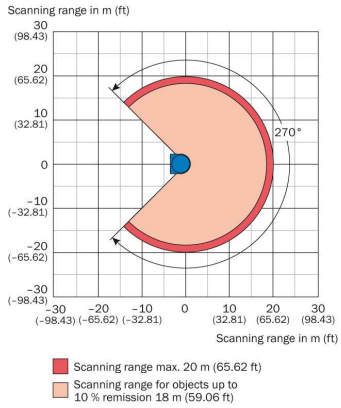
Note on use:	Not suitable for personnel protection

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Dimensional drawing



Operating range diagram



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Australia
Phone +61 3 9457 0600
1800 33 48 02 – tollfree
E-Mail sales@sick.com.au

Belgium/Luxembourg
Phone +32 (0)2 466 55 66
E-Mail info@sick.be

Brasil
Phone +55 11 3215-4900
E-Mail marketing@sick.com.br

Canada
Phone +1 905 771 14 44
E-Mail information@sick.com

Česká republika
Phone +420 2 57 91 18 50
E-Mail sick@sick.cz

China
Phone +86 4000 121 000
E-Mail info.china@sick.net.cn
Phone +852-2153 6300
E-Mail ghk@sick.com.hk

Danmark
Phone +45 45 82 64 00
E-Mail sick@sick.dk

Deutschland
Phone +49 211 5301-301
E-Mail info@sick.de

España
Phone +34 93 480 31 00
E-Mail info@sick.es

France
Phone +33 1 64 62 35 00
E-Mail info@sick.fr

Great Britain
Phone +44 (0)1727 831121
E-Mail info@sick.co.uk

India
Phone +91–22–4033 8333
E-Mail info@sick-india.com

Israel
Phone +972-4-6881000
E-Mail info@sick-sensors.com

Italia
Phone +39 02 27 43 41
E-Mail info@sick.it

Japan
Phone +81 (0)3 5309 2112
E-Mail support@sick.jp

Magyarország
Phone +36 1 371 2680
E-Mail office@sick.hu

Nederland
Phone +31 (0)30 229 25 44
E-Mail info@sick.nl

Norge
Phone +47 67 81 50 00
E-Mail sick@sick.no

Österreich
Phone +43 (0)22 36 62 28 8-0
E-Mail office@sick.at

Polska
Phone +48 22 837 40 50
E-Mail info@sick.pl

România
Phone +40 356 171 120
E-Mail office@sick.ro

Russia
Phone +7-495-775-05-30
E-Mail info@sick.ru

Schweiz
Phone +41 41 619 29 39
E-Mail contact@sick.ch

Singapore
Phone +65 6744 3732
E-Mail sales.gsg@sick.com

Slovenija
Phone +386 (0)1-47 69 990
E-Mail office@sick.si

South Africa
Phone +27 11 472 3733
E-Mail info@sickautomation.co.za

South Korea
Phone +82 2 786 6321/4
E-Mail info@sickkorea.net

Suomi
Phone +358-9-25 15 800
E-Mail sick@sick.fi

Sverige
Phone +46 10 110 10 00
E-Mail info@sick.se

Taiwan
Phone +886 2 2375-6288
E-Mail sales@sick.com.tw

Türkiye
Phone +90 (216) 528 50 00
E-Mail info@sick.com.tr

United Arab Emirates
Phone +971 (0) 4 88 65 878
E-Mail info@sick.ae

USA/México
Phone +1(952) 941-6780
1 (800) 325-7425 – tollfree
E-Mail info@sickusa.com

More representatives and agencies
at **www.sick.com**

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