

# LMS100-10000

LMS1xx

**2D LASER SCANNERS** 





# Ordering information

Туре	Part no.
LMS100-10000	1041113

Other models and accessories → www.sick.com/LMS1xx



## Detailed technical data

### **Features**

Field of application	Indoor
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	No
Operating range	0.5 m 20 m
Max. range with 10 % reflectivity	18 m
Amount of evaluated echoes	2
Fog correction	Yes

### Performance

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

 $<sup>^{1)}\ \</sup>mbox{Typical value;}$  actual value depends on environmental conditions.

#### Interfaces

Serial (RS-232)	1
Function	Host, AUX
Data transmission rate	9.6 kBaud 115.2 kBaud

Ethernet		<b>✓</b>
	Function	Host
Data transm	nission rate	10/100 MBit/s
	Protocol	TCP/IP, OPC
CAN bus		✓
	Function	Extension of outputs
Switching inputs		2 digital and 2 encoder inputs
Switching outputs		3
Optical indicators		7-segment display (plus 5 LEDs showing device status, contamination warning and initial condition) $ \\$

# Mechanics/electronics

Electrical connection	1 x system plug with screw terminal block
Operating voltage	10.8 V DC 30 V DC
Power consumption	Typ. 8 W
Housing color	Light blue (RAL 5012)
Enclosure rating	IP 65 (EN 60529, Section 14.2.5)
Protection class	III (EN 50178 (1997;10))
Weight	1.1 kg
Dimensions (L x W x H)	105 mm x 102 mm x 152 mm

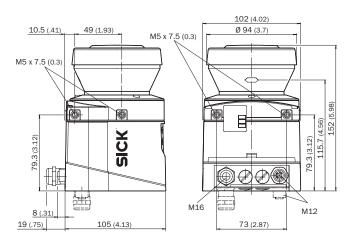
## Ambient data

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 +50 °C
Storage temperature	-30 °C +70 °C
Ambient light immunity	40,000 lx

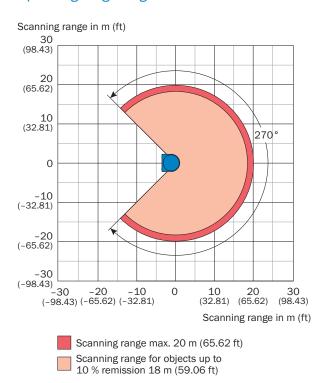
## General notes

Note on use	Not suitable for personnel protection
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#### Dimensional drawing (Dimensions in mm (inch))



## Operating range diagram



#### Recommended accessories

Other models and accessories → www.sick.com/LMS1xx

	Brief description	Туре	Part no.
Mounting brackets and mounting plates			

	Brief description	Туре	Part no.	
	1 piece, mounting bracket for rear mounting on wall or machine	Mounting kit 1a	2034324	
	$\boldsymbol{1}$ piece, mounting bracket for rear mounting on wall or machine with protection of optics hood	Mounting kit 1b	2034325	
	1 piece, mounting bracket, adjustable lateral axis, only in conjunction with mounting kit 1a (2034324) or 1b (2034325)	Mounting kit 2	2039302	
	1 piece, mounting plate, adjustable longitudinal axis, only in conjunction with mounting kit 2 (2039302)	Mounting kit 3	2039303	
Plug connectors and cables				
	Head A: cable Head B: cable Cable: PVC, unshielded On 100 m reel	Connecting cable	6030795	
	Head A: male connector, M12, 4-pin, straight, D-coded Head B: male connector, RJ45, 8-pin, straight Cable: Ethernet, drag chain use, PUR, shielded, 5 m	SSL-2J04-G05ME	6034415	

# 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:**

Contacts and other locations -www.sick.com

