Online data sheet



LMC121-11001 VdS

LMC1xx

2D LASER SCANNERS

SICK
Sensor Intelligence.



Illustration may differ

Ordering information

Type	Part no.
LMC121-11001 VdS	1051314

Other models and accessories → www.sick.com/LMC1xx

Detailed technical data

Features

Version	Short Range
Field of application	Security Indoor
Light source	Infrared (905 nm)
Laser class	1 (IEC 60825-1 (2007-3))
Aperture angle	270°
Scanning frequency	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

Performance

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

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

Interfaces

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

Ethernet	✓
Function	Host
Data transmission rate	10/100 MBit/s
Protocol	TCP/IP
CAN bus	✓
Function	Extension of outputs
Switching inputs	4 digital
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 x system plug with screw terminal block
Operating voltage	9 V DC ... 30 V DC
Power consumption	20 W, typ. 8 W
Housing color	Gray (RAL 7032)
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 (L x W x H)	105 mm x 102 mm x 152 mm

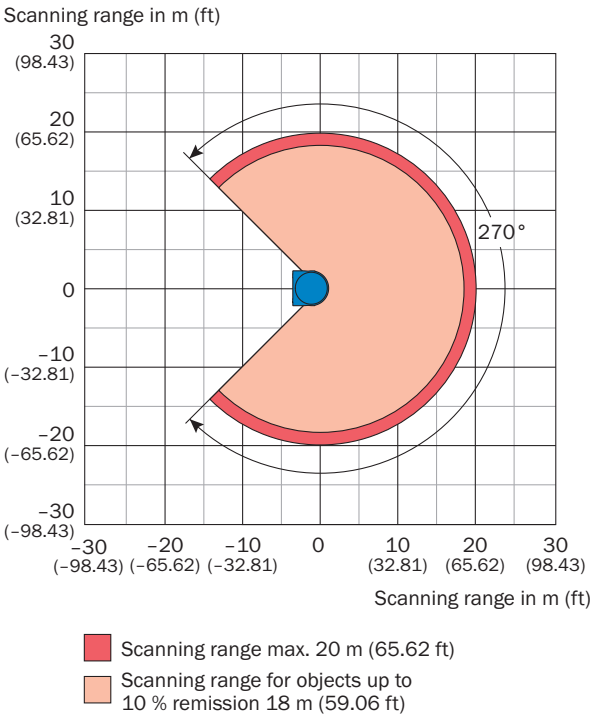
Ambient data

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

Items supplied	LMS12x VdS (Indoor), Mounting protection bracket VdS 2 (short)
Note on use	Not suitable for personnel protection

Operating range diagram



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