



LMC1xx

2D LiDAR sensor with VdS certificate – protects against intrusion and robbery

SICK
Sensor Intelligence.



Technical data overview

Application	Security / Indoor / Security / Outdoor (depending on type)	
Integrated application	Field evaluation with flexible fields, security conform parameterization	
Aperture angle	Horizontal	270°
Angular resolution	0.25° 0.5°	
Working range	0.5 m ... 20 m	
Scanning range	At 10% remission factor	18 m
Amount of evaluated echoes	2	
Scanning frequency	50 Hz	
Heating	No / yes (depending on type)	
Ambient operating temperature	-30 °C ... +50 °C (depending on type)	
Ethernet	✓	
Serial	✓	
CAN	✓	
Digital inputs	4 digital	
Digital outputs	3 (2 relay, 1 digital)	
Weight	1.1 kg	

Product description

The LMC1xx product family has been developed for class “C” intrusion and hold-up systems (German/Austrian security certificate) which are compliant with VdS and VSÖ. LMC (laser measurement certified) consists of a 2D LiDAR sensor, mounting kit, and special firmware. LMC provides protection both indoors and out. It can be positioned flexibly as a curtain to protect individual pictures or entire walls (vertical field) or to protect ceilings and floors (horizontal field). LMC can be adapted to any conceivable situation by varying the combination of the inputs. In a museum, for example, each individual picture can be monitored separately during the day, but the entire wall can be monitored for intrusions and break-ins at night. If anyone breaches the monitoring field, an alarm is triggered immediately. The LiDAR sensors can be operated independently or as part of an existing alarm management system using several relay outputs and an OPC interface.

At a glance

- The only 2D LiDAR sensor on the market with a VdS certificate (German safety certificate)
- Highest class “C” with environmental class II or IVa
- Flexible connection to DC 9 V up to 30 V
- 2 isolated relays (alarm) and 1 manipulation output
- High detection range of 20 m both horizontal and vertical
- Up to 10 freely definable monitoring fields, intelligent analysis algorithms
- Certified quick start menu
- Available in 200 RAL colors on request

Your benefits

- VdS certification ensures system reliability and is accepted by insurance companies (German certificate standard)
- High angular resolution provides a secure solution that improves reliability
- Secure, reliable detection with few false alarms due to precise field configuration of the detection area
- Small size for “invisible” installation
- Intelligent evaluation provides maximum application flexibility
- Easy integration into existing alarm management systems
- Low maintenance due to high immunity against environmental influences
- Cost-effective retrofitting due to low installation and wiring costs

Fields of application

- Monitoring system for building safety and security and automation
- Area surveillance of industrial environments, public authorities and private property, e. g., high security areas
- Protects against intrusion, theft, and vandalism
- Perimeter (fence) protection (vertical)
- Area monitoring and roof protection (horizontal)
- Facade monitoring (vertical)
- Camera tracking
- Use indoors on walls, floors, or ceilings for protecting artwork and other valuables

Ordering information

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

- **Working range:** 0.5 m ... 20 m
- **Integrated application:** Field evaluation with flexible fields, security conform parameterization
- **Connection type:** 1 x system plug with screw terminal block
- **Scanning frequency:** 50 Hz
- **Switching mode:** 4 digital

Enclosure rating	Color	Items supplied	Type	Part no.
IP65	Black (RAL 9005)	LMS12x VdS (Indoor), Mounting protection bracket VdS 1 (long)	LMC122-11000 VdS	1051300
		LMS12x VdS (Indoor), Mounting protection bracket VdS 1 (long, uncoated aluminum)	LMC124-11000 VdS	1051303
		LMS12x VdS (Indoor), Mounting protection bracket VdS 2 (short)	LMC122-11001 VdS	1051315
	Gray (RAL 7032)	LMS12x VdS (Indoor), Mounting protection bracket VdS 1 (long)	LMC121-11000 VdS	1051287
		LMS12x VdS (Indoor), Mounting protection bracket VdS 2 (short)	LMC121-11001 VdS	1051314
	Signal white (RAL 9003)	LMS12x VdS (Indoor), Mounting protection bracket VdS 1 (long)	LMC123-11000 VdS	1051301
		LMS12x VdS (Indoor), Mounting protection bracket VdS 2 (short)	LMC123-11001 VdS	1051316
	IP67	Black (RAL 9005)	LMS13x VdS (Outdoor), Mounting protection bracket VdS 2 (short)	LMC132-11101 VdS
Gray (RAL 7032)		LMC131-11101 VdS		1051487
Signal white (RAL 9003)		LMC133-11101 VdS		1051489

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