LMS2xx

Fast and reliable laser measurement

SICK
Sensor Intelligence.

LMS2xx

Technical data overview

Application	Indoor / Outdoor (depending on type)
Integrated application	Field evaluation
Aperture angle	
Horizontal	180° 100° 90°
Angular resolution	0.25° 0.5° 1°
Working range	0 m ... 80 m
Scanning range	
At 10% remission factor	10 m ... 30 m (depending on type)
Scanning frequency	75 Hz
Heating	Optional via external heating plate Yes, including additional front window heating Yes (depending on type)
Ambient operating temperature	–30 °C ... +50 °C (depending on type)
Digital inputs	1
Digital outputs	3 0
Weight	4.5 kg / + 9 kg (depending on type)

Product description

The LMS is a non-contact Laser Measurement System. As a result of the small light spot and high sensitivity with the indoor version it is suitable for measuring contours, positioning tasks and checking for projections. Internal fields or distance data can be evaluated. It requires no auxiliary passive components such as reflectors or position marks. The high resolution allows it to take on tasks that have been hitherto impossible or could only be achieved with difficulty or at great cost. The Outdoor Laser Measurement Systems are designed for dark objects at long ranges and are found, for example, in port automation or transportation systems worldwide. In outdoor use for building security the systems are characterized by minimum false alarm rates under the poorest of environmental conditions. They have robust housings with an enclosure rating of IP 67. Most systems can fulfil area monitoring tasks parallel to measurement tasks.

At a glance

- The wide variety of available variants offer tailor-made solutions for indoor and outdoor tasks
- Non-contact optical measurement even over long distances
- Background or substrate has no effect on measurement
- Integrated field monitoring
- Various applications, e. g., object measurement, position measurement, navigation, area monitoring, and electronic toll systems

Your benefits

- High target object speed possible
- Measurement objects require no special reflectivity properties
- Objects require no reflectors or marking
- Target object in any position
- Measurement data are available in real time and can be used for further calculation or control tasks
- No illumination of target object necessary
- Simple installation and commissioning
- Any mounting position

Ordering information

Other models and accessories ➜ www.sick.com/LMS2xx

- **Working range:** 0 m … 80 m
- **Scanning frequency:** 75 Hz

Integrated application	Enclosure rating	Color	Connection type	Type	Part no.
–	IP65	Gray (RAL 7032)	2 x System plug with 9-pin D-SUB female connector (solder connection)	LMS291-S14	1025329
	IP67	Gray (RAL 7032)	1 x 16-pin plug	LMS211-S14	1025487
				LMS211-S27	1044298
Field evaluation	IP65	Light blue (RAL 5012)	2 x System plug with 9-pin D-SUB female connector (solder connection)	LMS200-30106	1015850
		Gray (RAL 7032)		LMS291-S05	1018028
	IP67	Gray (RAL 7032)	1 x 16-pin plug	LMS211-30106	1025629
				LMS211-30206	1018023
				LMS211-S07	1018966
				LMS211-S19	1040061
				LMS211-S20	1040435
				LMS211-S26	1044297
				LMS221-30106	1026000
				LMS221-30206	1018022
				LMS221-S07	1018965
				LMS221-S19	1040060
				LMS221-S20	1040434
				LMS221-S26	1044296

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**

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