

NEW
LMS 400



Product Information

**The LMS 400
Laser Measurement System**
Pole position for robotics
and material handling.



SICK

Moving faster with more precision and reliability The LMS 400 Laser Measurement System

The world of material handling, logistics and manufacturing faces new challenges every day. Increasing quantities of goods must be transported and accurately processed in ever-shortening turnaround times. With the LMS 400, SICK provides a measurement solution with high scanning rates, comprehensive process reliability and improved measurement resolution for close range applications.





LMS 400 – Versatility meeting your demands

For higher resolution in close range applications

The new LMS 400 positioning and handling scanner is based on SICK's successful LMS 200 series. This newly developed device uses the time-of-flight measurement principle as its foundation – technology which has been successfully used by a variety of SICK scanners in various industry sectors. The LMS 400 is designed for applications with high resolution demands for measuring ranges up to 3 m. High scanning rates enable the measurement of objects moving at high speeds.

New: Distance measurement with Frequency Signal Processing

With the use of the patented Frequency Signal Processing (FSP), which is based on phase-travel measurement, the LMS 400 is capable of detecting even the smallest of details at high speed. An innovation from SICK that offers you maximum performance for your measurement task.



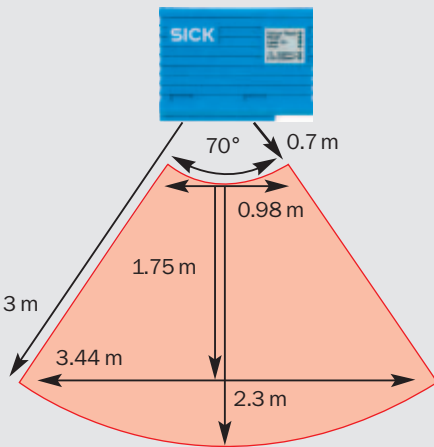
Postal services



Air cargo



Material h



LMS 400 operating range



A variety of ranges

Small and compact design

No external illumination necessary

Product versions

- **LMS 200**
 A standard solution for longer operating ranges up to 10 m
- **LMS 400**
 A flexible measurement solution for shorter operating ranges of up to 3 m, with high angular and distance resolution



Logistics

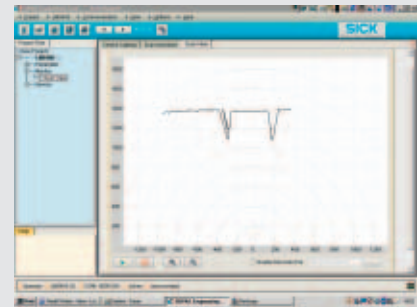


Warehouses



User-friendly through parameterisation software

- Simple parameter-setting and diagnosis via central interface
- Comfortable visualisation
- Intuitive user guidance
- Self-diagnosis



Handling



Robotics

Application example:

a typical measurement solution with the LMS 400

- Automatic unloading of pallets
- Robot: gripping robot
- Cycle time: 5 s
- Application: precise loading and unloading of euro pallets, any objects
- Preparation of data for the loading process



Provides for a variety of interfaces, such as RS232/422, CAN, Ethernet

Simple installation and commissioning

Flexible use



Parcel services

Technical data	LMS 200	LMS 400
Max. measurement distance	up to 32 m	3 m
Distance resolution	10 mm	1 mm
Angular resolution	1° to 0.25°	0.25° to 0.1°
Scanning frequency	– 75 Hz 18.75 Hz	500 Hz 0.25° 250 Hz 0.1° –
Measurement distance 10% reflectivity	10 m	3 m
Housing size		
height	185 mm	107 mm
width	155 mm	179 mm
depth	156 mm	130 mm



This is the challenge.

Solving positioning and handling applications well into the future: LMS 400 Laser Measurement System from SICK

A new dimension in positioning and handling:

- Highly precise measurement up to 3 m
- Rapid processing and short cycle times
- Measurement independent of coloured backgrounds
- Simple installation and parameterisation
- Improved resolution
- Provision of additional reflectivity information



The first laser measurement system that also detects reflectivity.

Thanks to the Reflectivity Information System (RIS), the LMS 400 Laser Measurement System is capable of determining and processing supplementary reflectivity information.

SICK bar code scanner connection modules can be used with the LMS 400.

The dialogue continues.

Copy, complete and fax.

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Name	
Position/ Department	
Address	
Post code/ Town	
Phone/Fax	
Industry/Field of application	

I would like to know more about:

I am interested in a detailed consultation with one of your project consultants.
 Please arrange an appointment for me.

Other product information as downloads at www.sick.com

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