



LMS4xx

Fast and reliable, for precise measurement of distances and contours

2D LIDAR SENSORS

SICK
Sensor Intelligence.



Technical data overview

Application	Indoor
Integrated application	Level Control
Aperture angle	Horizontal 70°
Angular resolution	0.1° ... 1.0°, configurable
Working range	0.7 m ... 3 m
Scanning range	At 10% remission 3 m
Scanning frequency	230 Hz ... 500 Hz (depending on type)
Ambient operating temperature	0 °C ... +40 °C
Ethernet	✓
Serial	✓
Digital inputs	4
Digital outputs	5 (4 x PNP / analog 1 x 4 mA ... 20 mA)
Weight	2.3 kg

Product description

The LMS400 2D LiDAR sensor is ideal for applications in material handling and logistics, wherever increasing numbers of goods have to be moved to precise destinations for further processing. With the LMS400, SICK is offering a measurement solution for all users for whom high throughput, comprehensive process reliability, and improved resolution within near working ranges are key considerations. The integrated level control application is setting standards for flexibility and fields of application in logistics and conveying technology. Whether in containers, in boxes, or on pallets, the filling level is reliably detected and output via integrated digital outputs. The analog output extends the application to direct control for processes in the field of packaging or handling.

At a glance

- The “Level Control” application integrated in the sensor is, with its gapless scanning surface, able to perform “shadowless” detection of objects in containers. Even small objects, regardless of color, are detected anywhere in the container.
- Large dynamic measurement range of 0.7 m to 3 m
- Rugged design
- High angular resolution and scanning frequency
- Ideal for depalletizing tasks, contour verification and vision applications on pallets

Your benefits

- The integrated level control application replaces numerous sensors and drastically reduces the effort required for wiring and programming.
- Reliable evaluation at high conveyor speeds
- Neither shading nor artificial lighting is necessary
- Mounting is possible in positions beyond the robot collision area
- Fast data acquisition thanks to highly precise detection and positioning measurements in real-time

Ordering information

Other models and accessories → www.sick.com/LMS4xx

- **Working range:** 0.7 m ... 3 m
- **Integrated application:** Level Control
- **Enclosure rating:** IP65
- **Color:** Light blue (RAL 5012)

Scanning frequency	Type	Part no.
230 Hz ... 500 Hz	LMS400-1000	1027897
300 Hz ... 500 Hz	LMS400-2000	1041725

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