

LD-LRS

2D LiDAR sensor with a large scanning range makes outdoor applications possible







Technical data overview

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Application	Outdoor	
Integrated application	Field evaluation	
Aperture angle Horizontal	360°	
Angular resolution	0.125°, Interlaced: 0,0625 0.125° 0.1875° 0.25° 0.375° 0.5° 0.75° 1°	
Working range	2.5 m 250 m (depending on type)	
Scanning range		
At 10% remission factor	80 m 120 m (depending on type)	
At 90% remission factor	250 m	
Scanning frequency	5 Hz 15 Hz	
Heating	Yes	
Ambient operating temperature	-25 °C +50 °C	
Ethernet	√	
Serial	✓	
Digital outputs	4 (digital) 1 (digital)	
Weight	9.1 kg	

Product description

The superior technology of the LD-LRS 2D LiDAR sensor with scanning ranges of up to 250 m automates ship loading operations when using quay cranes, greatly reducing the time spent in the loading port. The high-performance laser optics system performs non-contact scanning of the container stack and precisely detects all obstacles impeding the movement. The LD-LRS provides precise measurement data to determine the container stack profile, thus saving time and ensuring the highest level of handling reliability during loading.

The profile measurement of the filling state of bulk material stockpiles can be converted into a 3D model in order to determine the exact surface structure of the stockpile for controlling the loading system, which then optimizes removal.

At a glance

- · Long sensing range even when detecting dark surfaces
- High angular resolution of up to 0.0625 degrees
- High immunity to solar radiation
- Synchronous monitoring of up to six different fields
- Small laser spot diameter even at long distances

Your benefits

- · Reliable operation even in harsh ambient conditions
- Low installation costs due to large monitoring areas
- Reliable detection of small objects at long distances
- Easy installation options for excavators and crane systems

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Fields of application

- Automation of ship loading operations
- Detection of bulk material stockpiles (volume determination)
- Determination of container data such as mass and position
- Monitoring of large roof surfaces, facades, and other areas

Ordering information

Other models and accessories → www.sick.com/LD-LRS

Enclosure rating: IP67Color: gray (RAL 7032)

Connection type: 1 x 20-pin Harting plug
 Scanning frequency: 5 Hz ... 15 Hz

Working range	Integrated application	Туре	Part no.
2.5 m 250 m	-	LD-LRS3601	1060832
	Field evaluation	LD-LRS3600	1060831
5 m 250 m	-	LD-LRS3611	1067186

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

