

LD-LRS3600 LD-LRS

2D LIDAR SENSORS

SICKSensor Intelligence.



Ordering information

Туре	Part no.
LD-LRS3600	1060831

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

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Detailed technical data

Features

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Application	Outdoor
Light source	Infrared (905 nm)
Laser class	1 (IEC 60825-1:2014, EN 60825-1:2014)
Aperture angle	
Horizontal	360°
Scanning frequency	5 Hz 15 Hz
Angular resolution	0.125°, Interlaced: 0,0625 0.125° 0.1875° 0.25° 0.375° 0.5° 0.75° 1°
Heating	Yes
Working range	2.5 m 250 m
Scanning range	
At 10% remission factor	80 m
At 90% remission factor	250 m

Mechanics/electronics

Connection type	1 x 20-pin Harting plug
Supply voltage	24 V DC, ± 15 %
Power consumption	36 W, + 140 W heating
Housing	PU (polyurethane rigid integral foam)
Housing color	Gray (RAL 7032)
Enclosure rating	IP67
Protection class	III
Weight	9.1 kg
Dimensions (L x W x H)	250 mm x 350 mm x 391.1 mm

MTBF	86 years
Safety-related parameters	
MTTF _D	> 100 years
Performance	

Detectable object shape	Almost any
Systematic error	± 38 mm ¹⁾
Statistical error	30 mm ¹⁾
Integrated application	Field evaluation
Number of field sets	6 fields
Simultaneous evaluation cases	10

 $^{^{1)}\ \}mbox{Typical value;}$ actual value depends on environmental conditions.

Interfaces

Ethernet	√ , TCP/IP, RS-422
Data transmission rate	≤ 100 Mbit/s 19,200 Baud 115,200 Baud
Digital outputs	4 (digital)
Optical indicators	0

Ambient data

Ambient operating temperature	-25 °C +50 °C
Storage temperature	-25 °C +80 °C

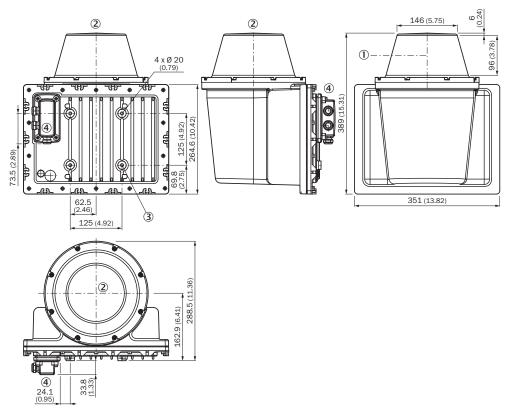
General notes

	The sensor does not constitute a safety component as defined by relevant legislation on machine safety.
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Classifications

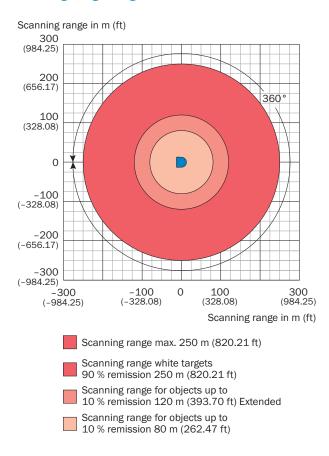
ECLASS 5.0	27270990
ECLASS 5.1.4	27270990
ECLASS 6.0	27270913
ECLASS 6.2	27270913
ECLASS 7.0	27270913
ECLASS 8.0	27270913
ECLASS 8.1	27270913
ECLASS 9.0	27270913
ECLASS 10.0	27270913
ECLASS 11.0	27270913
ECLASS 12.0	27270913
ETIM 5.0	EC002550
ETIM 6.0	EC002550
ETIM 7.0	EC002550
ETIM 8.0	EC002550
UNSPSC 16.0901	41111615

Dimensional drawing (Dimensions in mm (inch))



- ① Optical axis
- 2 Zero level
- 3 Mounting hole M6 threaded -9 mm deep
- ④ RS-232/Ethernet/Power connection (20-pin harting connector)

Working range diagram



Recommended accessories

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

	Brief description	Туре	Part no.
Mounting brad	ckets and plates		
	Mounting kit for wall-mounting (adjustment bracket), Steel, zinc coated (1.0330)	Mounting kit	2018303

Recommended services

Additional services → www.sick.com/LD-LRS

	Туре	Part no.	
Commissioning			
 Product area: 2D LiDAR sensors, 3D LiDAR sensors Range of services: Inspection of connection, fine adjustment, configuration of monitored areas, configuration and optimization of parameters as well as tests, Setup of previously defined functions of basic settings, parameters of field application, filters for raw data output and product-specific configuration Travel expenses: The prices do not include travel costs such as hotel, flight, travel time and expenses. Duration: Additional work will be invoiced separately 	Commissioning LiDAR sensors	1680672	
Maintenance			
 Product area: 2D LiDAR sensors, 3D LiDAR sensors Range of services: Inspection, analysis and restoring of defined functions, Inspection and adaptation of basic settings, parameters of field application, filters for raw data output, and product-specific configuration Duration: Additional work will be invoiced separately Travel expenses: The prices do not include travel costs such as hotel, flight, travel time and expenses. 	Maintenance of LiDAR sensors	1682593	
Extended warranty			
 Product area: Identification solutions, machine vision, Detection and ranging solutions, safety camera sensors, Safety laser scanners, Safety radar sensors Range of services: The services correspond to the scope of the statutory manufacturer warranty (SICK general terms of delivery). Duration: Five-year warranty from delivery date. 	Extended warranty for a total of five years from delivery date	1680671	

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

