



SICK

2D LIDAR SENSORS



LD-LRS3601 | LD-LRS

2D LIDAR SENSORS



Ordering information

Туре	Part no.
LD-LRS3601	1060832

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

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Detailed technical data

Features

Application	Outdoor, Indoor
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 Horizontal	0.0625°, interlaced 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 At 90% remission factor	

Mechanics/electronics

Connection type	1 x 20-pin Harting plug ¹⁾
Supply voltage	24 V DC, ± 15 %
Power consumption	36 W, + 140 W heating
Housing material	PU (polyurethane rigid integral foam)
Housing color	Gray (RAL 7032)
Enclosure rating	IP67

¹⁾ Harting.

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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

¹⁾ Harting.

Safety-related parameters

MTTFD	> 100 years
Performance	
Detectable object shape	Almost any
Systematic error	± 38 mm ¹⁾
Statistical error	30 mm ¹⁾

 $^{\left(1\right) }$ Actual value depends on environmental conditions.

Interfaces	
Ethernet	✓, TCP/IP
Data transmission rate	≤ 100 Mbit/s
Serial	✓, RS-422
Data transmission rate	19,200 Baud 115,200 Baud
Digital outputs	1 (digital)
Optical indicators	0
Ambient data	
Ambient operating temperature	-25 °C +50 °C
Storage temperature	-25 °C +80 °C

General notes

Note on use	The sensor does not constitute a safety component as defined by relevant legislation on ma-
	chine safety.

Classifications

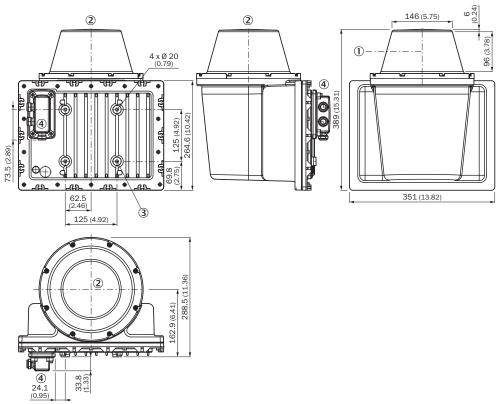
ECLASS 5.0	27270990
ECLASS 5.1.4	27270990
ECLASS 6.0	27270913
ECLASS 6.2	27270913
ECLASS 7.0	27270913
ECLASS 8.0	27270913
ECLASS 8.1	27270913
ECLASS 9.0	27270913
ECLASS 10.0	27270913
ECLASS 11.0	27270913
ECLASS 12.0	27270913
ETIM 5.0	EC002550
ETIM 6.0	EC002550
ETIM 7.0	EC002550

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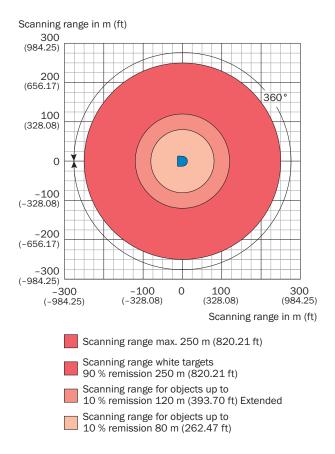
ETIM 8.0	EC002550
UNSPSC 16.0901	41111615

Dimensional drawing (Dimensions in mm (inch))



- ① Optical axis
- Žero 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 brac	ckets and plates		
	Mounting kit for wall-mounting (adjustment bracket), Steel, zinc coated (1.0330)	Mounting kit	2018303

2D LIDAR SENSORS

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 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 	Maintenance of LiDAR sensors	1682593
Extended warranty		
 Product area: Machine vision, LiDAR sensors, safety camera sensors, Safety laser scanners, Safety radar sensors, Radar sensors, Fixed mount barcode scanners, Image-based code readers, RFID, Mobile handheld scanners Range of services: The services correspond to the scope of the statutory 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



Online data sheet

