



Laser scanners LD-LRS / Outdoor / Extended Range

LD-LRS3110



Model Name > [LD-LRS3110](#)
Part No. > [1046011](#)



At a glance

- Long range, even when detecting dark objects
- High angular resolution
- High ambient light immunity
- Small light spot diameter
- Up to 4 fields can be programmed

Your benefits

- Optimum installation position on diggers and cranes due to a long scanning range
- High level of reliability, even in poor environmental conditions
- Low installation costs due to large monitoring areas
- Small objects can be reliably detected at long ranges



Features

Field of application:	Outdoor
Version:	Extended Range
Light source:	Infrared (905 nm)
Laser class:	1 (EN/IEC 60825-1), eye-safe
Field of view:	360 °
Scanning frequency:	5 Hz ... 10 Hz
Angular resolution:	0.062 ° 0.125 ° 0.25 ° 0.5 ° 1 ° 1.5 °
Heating:	Yes
Operating range:	5 m ... 250 m
Max. range with 10 % reflectivity:	120 m

Performance

Response time:	≥ 100 ms
Detectable object shape:	Almost any
Systematic error ¹⁾ :	± 38 mm
Statistical error ²⁾ :	± 30 mm
Integrated application:	Field evaluation
Number of field sets:	4 fields

Simultaneous processing cases: 4

1) 2) Typical value; actual value depends on environmental conditions.

Interfaces

Serial (RS-422):	✓
Data transmission rate (Serial (RS-422)):	4,800 Baud ... 115,200 Baud
Ethernet:	✓
Data transmission rate (Ethernet):	≤ 10 Mbit/s
Protocol (Ethernet):	TCP/IP
CAN bus:	✓
Protocol (CAN bus):	Standard 2.0.A
Data transmission rate (CAN bus):	10 kbit/s ... 1 Mbit/s
PROFIBUS DP:	-
PROFINET:	-
DeviceNet:	-
Switching outputs:	4 (digital)
Optical indicators:	0

Mechanics/electronics

Electrical connection:	1 20-pin Harting plug
Operating 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:	IP 67
Protection class:	III
Weight:	9.1 kg
Dimensions:	250 mm x 350 mm x 391.1 mm

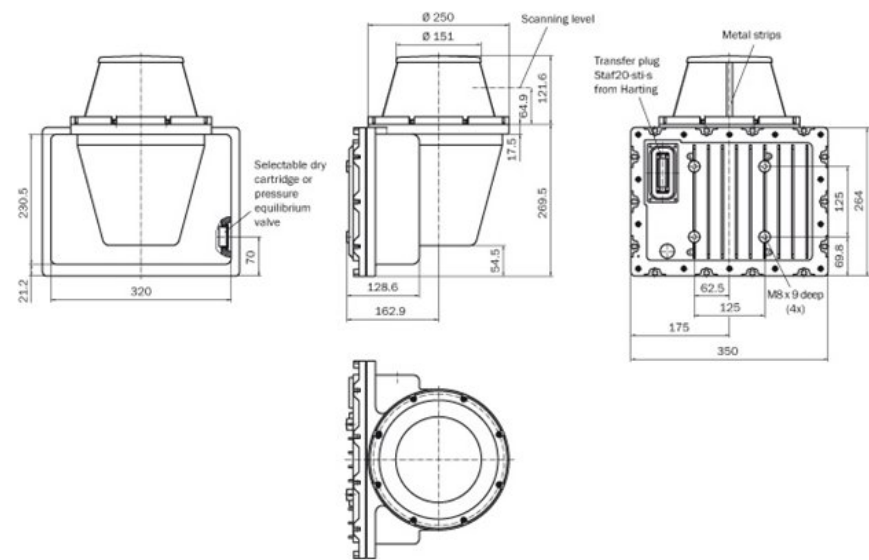
Ambient data

Ambient operating temperature:	-25 °C ... 50 °C
Storage temperature:	-25 °C ... 70 °C

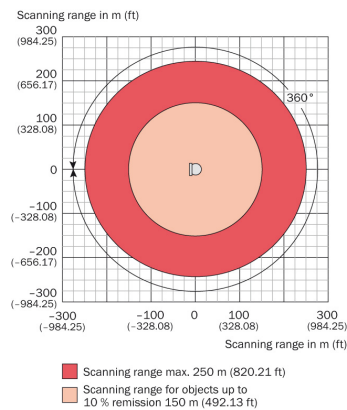
General notes

Note on use:	Not suitable for personnel protection
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Dimensional drawing



Operating range diagram



Australia

Phone +61 3 9457 0600
1800 334 802 – tollfree
E-Mail sales@sick.com.au

Belgium/Luxembourg

Phone +32 (0)2 466 55 66
E-Mail info@sick.be

Brasil

Phone +55 11 3215-4900
E-Mail sac@sick.com.br

Canada

Phone +1 905 771 14 44
E-Mail information@sick.com

Ceská Republika

Phone +420 2 57 91 18 50
E-Mail sick@sick.cz

China

Phone +86 4000 121 000
E-Mail info.china@sick.net.cn
Phone +852-2153 6300
E-Mail ghk@sick.com.hk

Danmark

Phone +45 45 82 64 00
E-Mail sick@sick.dk

Deutschland

Phone +49 211 5301-301
E-Mail kundenservice@sick.de

España

Phone +34 93 480 31 00
E-Mail info@sick.es

France

Phone +33 1 64 62 35 00
E-Mail info@sick.fr

Great Britain

Phone +44 (0)1727 831121
E-Mail info@sick.co.uk

India

Phone +91-22-4033 8333
E-Mail info@sick-india.com

Israel

Phone +972-4-6801000
E-Mail info@sick-sensors.com

Italia

Phone +39 02 27 43 41
E-Mail info@sick.it

Japan

Phone +81 (0)3 3358 1341
E-Mail support@sick.jp

Magyarország

Phone +36 1 371 2680
E-Mail office@sick.hu

Nederlands

Phone +31 (0)30 229 25 44
E-Mail info@sick.nl

Norge

Phone +47 67 81 50 00
E-Mail austefjord@sick.no

Österreich

Phone +43 (0)22 36 62 28 8-0
E-Mail office@sick.at

Polska

Phone +48 22 837 40 50
E-Mail info@sick.pl

România

Phone +40 356 171 120
E-Mail office@sick.ro

Russia

Phone +7-495-775-05-30
E-Mail info@sick.ru

Schweiz

Phone +41 41 619 29 39
E-Mail contact@sick.ch

Singapore

Phone +65 6744 3732
E-Mail admin@sicksgp.com.sg

Slovenija

Phone +386 (0)1-47 69 990
E-Mail office@sick.si

South Africa

Phone +27 11 472 3733
E-Mail info@sickautomation.co.za

South Korea

Phone +82 2 786 6321/4
E-Mail info@sickkorea.net

Suomi

Phone +358-9-25 15 800
E-Mail sick@sick.fi

Sverige

Phone +46 10 110 10 00
E-Mail info@sick.se

Taiwan

Phone +886-2-2375-6288
E-Mail sales@sick.com.tw

Türkiye

Phone +90 (216) 528 50 00
E-Mail info@sick.com.tr

United Arab Emirates

Phone +971 (0) 4 8865 878
E-Mail info@sick.ae

USA/México

Phone +1(952) 941-6780
1 800-325-7425 – tollfree
E-Mail info@sickusa.com

More representatives and agencies
at www.sick.com