



Laser scanners LD-MRS / Outdoor / Long Range

LD-MRS400102S01 HD



Model Name > [LD-MRS400102S01 HD](#)
Part No. > [1052961](#)

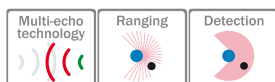


At a glance

- Increased dust penetration
- Simultaneous measurement on 4 layers
- Excellent outdoor capabilities with multipulse technology
- Compact and lightweight design. Volume is less than 1 liter, weight is approximately 1 kg
- Wide temperature range with low power consumption: -40 °C to +70 °C at 8 W
- Operation possible even with supply voltages from 9 V DC
- integrated object tracking

Your benefits

- 4-layer laser scanner technology provides reliable, trouble-free detection of objects, even on a slope
- Easy sensor integration due to compact design
- Lower power consumption reduces costs
- Real-time output of measurement data
- IP 69K-rated housing provides accurate measurements in all weather conditions



Features

Field of application:	Outdoor
Version:	Long Range
Laser class:	1
Field of view:	85 °, operating angle with 4 measurement layers, 25° work area expansion with 2 measurement layers (total 110°)
Scanning frequency:	12.5 Hz ... 50 Hz, object tracking at 12.5 Hz
Angular resolution:	0.125 ° 0.25 ° 0.5 °
Operating range:	0.5 m ... 250 m
Max. range with 10 % reflectivity:	30 m
Amount of evaluated echoes:	3

Performance

Detectable object shape:	Almost any
Systematic error ¹⁾ :	± 300 mm
Statistical error ²⁾ :	100 mm
Integrated application:	Object tracking

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

Interfaces

Serial (RS-232):	✓
Function (Serial (RS-232)):	Auxiliary interface
Data transmission rate (Serial (RS-232)):	57,600 Baud
Ethernet:	✓
Function (Ethernet):	Raw data interface/parameterization
Data transmission rate (Ethernet):	100 Mbit/s
Protocol (Ethernet):	TCP/IP
CAN bus:	✓
Function (CAN bus):	Output: Objects, Input: Vehicle ego motion data
PROFIBUS DP:	-
PROFINET:	-
DeviceNet:	-

Mechanics/electronics

Electrical connection:	Circular plug-in connector
Operating voltage:	9 V DC ... 27 V DC
Power consumption:	8 W
Housing:	Al
Housing color:	Gray (RAL 7032), Black (RAL 9005)
Enclosure rating:	IP 69K
Protection class:	III
Weight:	1 kg
Dimensions:	94 mm x 165 mm x 88 mm

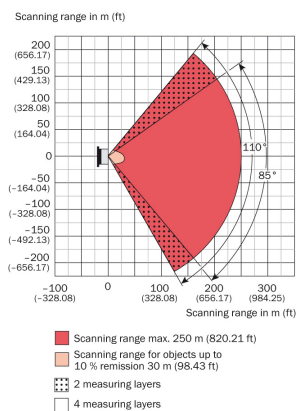
Ambient data

Ambient operating temperature:	-40 °C ... 70 °C
--------------------------------	------------------

General notes

Note on use:	Not suitable for personnel protection
--------------	---------------------------------------

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