



Laser scanners LD-MRS / Outdoor / Long Range

LD-MRS400001S01



Model Name > [LD-MRS400001S01](#)
Part No. > [1052960](#)

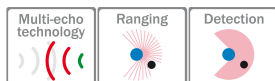


At a glance

- 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:	50 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

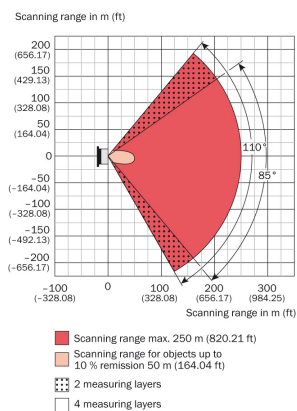
Ambient data

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

Note on use:	Not suitable for personnel protection
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Operating range diagram



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