

Laser Measurement Technology
LD-MRS / Outdoor / Long-Range

LD-MRS 400102



Model Name > [LD-MRS 400102](#)
Part No. > [1047145](#)



At a glance

- Increased dust penetration
- Simultaneous measurement on 4 layers
- Excellent outdoor capabilities with multi-pulse technology
- Compact and lightweight design. Volume less than 1 liter, approx. 1 kg in weight.
- Large temperature range with low power consumption. -40 ° to +70 °C at 8 Watt
- Operation possible even with supply voltages from 9 V DC

Your benefits

- Compensation of vehicle pitch movements via simultaneous measurement on 4 levels
- Easy sensor integration due to compact design



Features

Type:	Long-Range
Field of application:	Outdoor
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
Operating range:	0.5 m ... 250 m
Max. range with 10 % reflectivity:	30 m
Angular resolution:	0.125 °, 0.25 °, 0.5 °
Resolution:	40 mm

Performance

Detectable object shape:	Almost any
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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):	Auxiliary interface

PROFIBUS: -
PROFINET: -
DeviceNet: -

Mechanics/electronics

Electrical connection:	Circular plug-in connector
Operating voltage:	9 V DC ... 27 V DC
Power consumption:	8 W
Housing color:	gray, Black
Enclosure rating:	IP 69K
Protection class:	3
Weight:	1 kg
Dimensions:	94 mm x 165 mm x 88 mm
Housing:	Al

Ambient data

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