



## Laser scanners LD-OEM / Outdoor / Mid Range

LD-OEM2100



**Model Name** > [LD-OEM2100](#)  
**Part No.** > [1029035](#)



#### At a glance

- High angular resolution
- Real-time output of measurement data via Ethernet interface
- High ambient light immunity
- Up to 4 fields can be programmed

#### Your benefits

- High level of reliability, even in poor environmental conditions
- Small objects can be reliably detected at long ranges
- High-performance time-of-flight sensor for measurement and positioning, area monitoring and collision prevention applications
- Flexible integration in customer-designed applications



#### Features

|                                    |                                            |
|------------------------------------|--------------------------------------------|
| Field of application:              | Outdoor                                    |
| Version:                           | Mid Range                                  |
| Light source:                      | Infrared (905 nm)                          |
| Laser class:                       | 1 (EN/IEC 60825-1), eye-safe               |
| Field of view:                     | 360 °                                      |
| Scanning frequency:                | 5 Hz ... 20 Hz                             |
| Angular resolution:                | 0.125 °<br>0.25 °<br>0.5 °<br>1 °<br>1.5 ° |
| Heating:                           | Yes                                        |
| Operating range:                   | 2.5 m ... 250 m                            |
| Max. range with 10 % reflectivity: | 35 m                                       |
| Fog correction:                    | No                                         |

#### Performance

|                                   |                  |
|-----------------------------------|------------------|
| Response time:                    | ≥ 66 ms          |
| Detectable object shape:          | Almost any       |
| Systematic error <sup>1)</sup> :  | ± 38 mm          |
| Statistical error <sup>2)</sup> : | ± 25 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.

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## Interfaces

|                                                   |                             |
|---------------------------------------------------|-----------------------------|
| Serial (RS-232, RS-422):                          | ✓                           |
| Data transmission rate (Serial (RS-232, 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:                               | 4 LEDs (Status display)     |

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## 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:                | 7.4 kg                                |
| Dimensions:            | 250 mm x 350 mm x 391.1 mm            |

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## Ambient data

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

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## General notes

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

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