For measuring a broad range of targets with amazing precision. The LDM71 is a powerful all-rounder.

### Technical specifications

<table>
<thead>
<tr>
<th>LDM71 series</th>
<th>Measurement capabilities</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total range</strong></td>
<td>From 0.2 m to 270 m</td>
</tr>
<tr>
<td><strong>Typical range on target board</strong>&lt;sup&gt;1&lt;/sup&gt;</td>
<td>From 0.5 m to 270 m</td>
</tr>
<tr>
<td><strong>Typical range on natural surface, 80% reflectivity</strong>&lt;sup&gt;2&lt;/sup&gt;</td>
<td>From 0.2 m to 125 m</td>
</tr>
<tr>
<td><strong>Typical range on natural surface, 10% reflectivity</strong>&lt;sup&gt;2&lt;/sup&gt;</td>
<td>From 0.2 m to 70 m</td>
</tr>
<tr>
<td><strong>Accuracy</strong>&lt;sup&gt;3&lt;/sup&gt;</td>
<td>± 60 mm (single measurement, 1σ)</td>
</tr>
<tr>
<td><strong>Repeatability</strong>&lt;sup&gt;4&lt;/sup&gt;</td>
<td>± 25 mm (single measurement, 1σ)</td>
</tr>
<tr>
<td><strong>Measured value resolution</strong></td>
<td>1 mm (decimal output ≤ 15 kHz)</td>
</tr>
<tr>
<td><strong>Measurement frequency, max.</strong></td>
<td>40 kHz</td>
</tr>
</tbody>
</table>

**Laser**

- **Wavelength**: 905 nm (invisible, near-infrared)
- **Divergence**: 2 mrad × 0.4 mrad
- **Class**: Laser Class 1, EN 60825-1:2014

**Connectivity and I/O options**

- **Interface options**: RS-232, RS-422
- **Switching output**: 2× "high side"
- **Analog output**: From 4 mA to 20 mA
- **Trigger**: 1× in/out
- **Measurement operation modes**: Single measurement, continuous measurement
- **Connectors**: 12-pole M12 (Binder 713 series)
- **Display / Controls**: n/a

**Power**

- **Power supply**: From 10 V DC to 30 V DC
- **Power consumption, max.**: 3 W

**Ambient conditions**

- **Operating temperature**: From -20°C to +60°C
- **Storage temperature**: From -40°C to +70°C
- **Humidity**: From 10% to 90%, non-condensing
- **Integrated heating**: Yes

**Standards**

- **Shock / Vibration**: DIN ISO 9022-3
- **Protection class**: IP67
- **EMC**: EN 61326-1

**Physical**

- **Dimensions (L × W × H, incl. connectors)**: 98 mm × 46 mm × 25 mm
- **Weight**: Approx. 140 g

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<sup>1</sup> Measurement range for special targets, e.g. Scotchlite Cube.

<sup>2</sup> Measurement range for naturally diffuse reflecting surfaces, depending on target reflectivity, stray light, and environmental conditions.

<sup>3</sup> Accuracy in the range ≤ 1 m and in the range ≥ 70 m is ± 100 mm.

<sup>4</sup> Repeatability in the range ≤ 1 m and in the range ≥ 70 is ± 50 mm.