# ERDI LRF300H

Component datasheet · ERDI TECH LTD · laser rangefinder modules and eye-safe laser sources

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|---|---|
| **Model** | **LRF300H** |
| **Family** | 905nm |
| **Wavelength** | — |
| **Measuring range (with the condition it was measured under)** | 0.05-300 m (90% reflectivity); 0.05-100 m (10% reflectivity) — The two source values remain bound to their stated target reflectivity. Measu |
| **Accuracy / resolution** | ±10 cm (<10 m); 1% (≥10 m) Repeatability ±5 cm (<10 m); ±10 cm at 300 m Ambient-light immunity 100 klx |
| **Update rate** | — |
| **Interface** | UART, IIC |
| **Supply** | 9-36 V DC Average power consumption 1.2 W |
| **Power** | — |
| **Mass** | 20 ± 2 g |
| **Dimensions** | 33 × 34 × 18 mm |
| **Operating temperature** | -20°C to +60°C Keep the 90% and 10% target-reflectivity range ratings separate. Output switches automatically between 1 kHz and 50 Hz accord |
| **Laser class** | — |
| **Pulse energy** | — |

**Source note.** Figures pending confirmation against the manufacturer's current specification sheet.

**How to read the range figure.** A range number without its target size, reflectance and visibility is not comparable to anything. The figure above carries the manufacturer's own condition, quoted verbatim. If you need a different target or a different visibility, ask — the usable range changes, and we would rather state both than let you discover it in the field.

**What is not in this sheet.** Pinout, command frames and the protocol document are supplied with the units, matched to your firmware revision. We do not publish them here because frames differ between revisions and a generic frame does nothing on your bench.