LR1200D23 · 905 NM

CLASS-1 D SERIES

LR1200D23

LASER CLASS
CLASS 1
IEC 60825-1

High-accuracy Ø23 tube module with IP67 lens protection, built for industrial and outdoor ranging. 4–1,200 m at ±1 m, 10 cm resolution, 2–10 Hz over UART-TTL.

MAX RANGE	ACCURACY	WEIGHT	INTERFACE
4–1,200 m	**±1 m**	**≈ 20 g**	**UART-TTL**

TECHNICAL SPECIFICATIONS

FULL SHEET

Laser wavelength	905 nm ± 5 nm
Laser divergence	< 6 mrad
Optical material	Resin aspheric lens
Receiver aperture	20 mm ± 0.05 mm
Ranging range	4–1,200 m
Ranging accuracy	δ ⩽ ±1 m, 4 m ⩽ d < 1,000 m
Ranging frequency	2–10 Hz
Interface	UART-TTL (customizable)
Baud rate	115200 bps
Supply voltage	3.3–5 V (recommended ⩾ 3.5 V)
Operating power	< 0.8 W continuous · ≈ 0.6 W average
Operating temperature	-20 to +55 ℃ (-40 ℃ custom)
Storage temperature	-40 to +60 ℃
Protection rating	Lens cavity IP67
Laser safety class	IEC Class 1
Dimensions	Ø23 mm × 45.6 mm
Weight	≈ 20 g



APPLICATION FIT

INDUSTRIAL RANGING · OUTDOOR INSTRUMENTS · SECURITY OPTICS

Standard 8-byte UART frame (0x55 0xAA header, function code, 4 data bytes, checksum); distance returned ×10 for a one-decimal reading. Full integration manual ships with samples.

ERDI TECH LTD — 905 nm eye-safe laser rangefinder modules (IEC 60825-1 Class 1)
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