

SHORT-RANGE DToF

LRF200H

LASER CLASS

CLASS 1

IEC 60825-1

A 20 g, 33 × 34 × 18 mm industrial DToF LiDAR for port cranes, long conveyors and tunnel safety — 0.05–200 m, 20 Hz–10 kHz output, 9–36 V DC and dual UART/I²C interfaces.

MAX RANGE	ACCURACY	WEIGHT	INTERFACE
0.05–200 m (90% refl.)	±10 cm (<10 m); 1% (≥10 m)	20 ± 2 g	UART / I ² C

TECHNICAL SPECIFICATIONS

FULL SHEET

Laser wavelength	905 nm
Ranging range	0.05–200 m (90% refl.) · 0.05–70 m (10% refl.)
Measurement frequency	20 Hz–10 kHz, default 1 kHz
Ranging accuracy	±10 cm (<10 m) · 1% (≥10 m)
Repeatability	±5 cm (<10 m) · ±10 cm @ 200 m
Ambient light immunity	100 kLux
Laser safety class	Class 1
Field of view	≈ 4 mrad
Supply voltage	9–36 V DC
Peak current	100 mA
Average current	30 mA
Average power consumption	0.7 W
Interface	UART / I ² C
Dimensions	33 × 34 × 18 mm
Weight	20 ± 2 g
Operating temperature	–20 to +60 °C
Wire specification	1.25 mm, 5-pin, 50 cm stranded wires
Customization	Available in appearance / structure / output protocol



INTERFACE

UART-TTL

PIN	SIGNAL	DESCRIPTION
1	9–36V	External power +
2	Power GND	External power –
3	Port GND	Ground
4	TX	Host RX
5	RX	Host TX

APPLICATION FIT

- PORT & BRIDGE CRANE POSITIONING
- LONG CONVEYOR PROTECTION
- TUNNEL COLLISION AVOIDANCE

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.