LRF600H · 905 NM

SHORT-RANGE DTOF

LRF600H

LASER CLASS
CLASS 1
IEC 60825-1

A 20 g, 33 × 34 × 18 mm long-range DToF LiDAR for traffic safety, shuttle vehicles and overhead cranes — 0.05–600 m with adaptive 1 kHz / 50 Hz output that auto-switches on echo strength.

MAX RANGE	ACCURACY	WEIGHT	INTERFACE
0.05–600 m (90% refl.)	**±10 cm (<10 m); 1% (⩾10 m)**	**20 ± 2 g**	**UART / I²C**

TECHNICAL SPECIFICATIONS

FULL SHEET

Laser wavelength	905 nm
Ranging range	0.05–600 m (90% refl.) · 0.05–200 m (10% refl.)
Measurement frequency	1 kHz or 50 Hz — switches automatically to match echo strength
Ranging accuracy	±10 cm (<10 m) · 1% (⩾10 m)
Repeatability	±5 cm (<10 m) · ±50 cm @ 600 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	55 mA
Average power consumption	1.2 W
Interface	UART / I²C
Dimensions	33 × 34 × 18 mm
Weight	20 ± 2 g
Operating temperature	-20 to +60 ℃
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

- TRAFFIC SAFETY EARLY WARNING
- SHUTTLE & LAND VEHICLE ANTI-COLLISION
- OVERHEAD CRANE POSITIONING

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.

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ISO 9001:2015 · CE · RoHS · FDA · IEC 60825-1 Class 1 · MIL-STD-810G tested

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