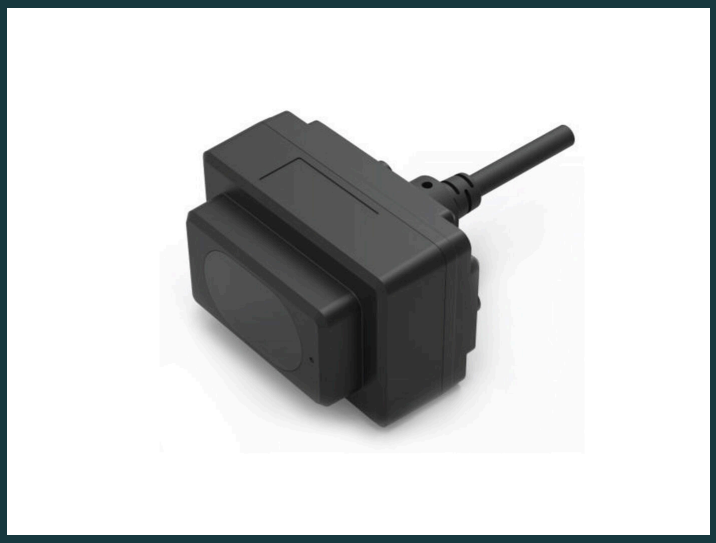
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INDUSTRIAL PRODUCT DATASHEET

TFmini-i LiDAR - Distance Sensor (12m) with CAN Interface

TFmini-i LiDAR distance sensor with 12m CAN interface, IP65 enclosure, and up to 1kHz frame rate for vehicle collision avoidance and UAV assisted takeoff/landing.

SKU	UPDATED	PRICE
101090022	2026-04-15 07:22:36	$71.90(Excl. VAT)



Overview



The TFmini-i LiDAR is a compact distance sensor offering short-range detection up to 12 meters via a CAN interface, with adjustable frame rates up to 1KHz and multiple configurable baud rates. It operates on a wide input voltage range of 7-30V with reverse protection and features a PC/ABS/PMMA enclosure with IP65 water and dust resistance, suitable for vehicle collision avoidance, traffic flow statistics, camera trigger, and UAV assisted takeoff and landing.

Key Features

- Compact size (50mm*34mm*41mm(L*W*H))
- Short-range detection (up to 12m)
- Adjustable frame rate with a maximum of 1KHz
- Multiple configurable baud rates
- Communication using CAN interface
- Wide range of input voltages (7-30V) with reverse protection
- PC/ABS/PMMA enclosure with IP65 water and dust resistance for industrial applications

Product Gallery



Specification

Parameters		Details
Product Performance	Operating Range	0.1-12m@90% reflectivity 0.1-7m@10% reflectivity 0.1-12m@90% reflectivity (70Klux) 0.1-7m@10% reflectivity (70Klux)
	Accuracy	±6cm (0.1~6m), 1% (6m-12m)
	Distance resolution	1cm
	Frame rate	1Hz~1000Hz adjustable (default 100Hz)
	Ambient light immunity	70Klux
	Operating temperature	-20~60℃

Parameters		Details
Optical Parameters	Light source	VCSEL
	Central wavelength	850nm
	Photobiological safety	Class1 (EN60825)
	FOV (Field of view)	2°
Electrical Parameters	Supply voltage	7~30V
	Average current	≤65mA@12V
	Power consumption	≤0.8W@12V
	peak current	100mA@12V
	Communication interface level	LVTTL（3.3V）
	Communication interface	CAN
Others	Enclosure rating	IP65
	Enclosure material	PC/ABS/PMMA
	Dimensions	50mm*34mm*41mm(L*W*H)
	Storage temperature	-30℃~75℃
	Weight	52g
	Cable length	70cm

Applications

- **Vehicle collision avoidance and safety warning systems**
- **Traffic flow statistics**
- **Camera trigger**
- **UAV assisted takeoff and landing**

Part List

- 1 x TF02-i LiDAR - Distance Sensor (40m) with CAN Interface

Compliance & Logistics



HSCODE	9031900090
USHSCODE	9031902100
UPC	
EUHSCODE	9013101000
COO	CHINA

FCC Requirement

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

15.21

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy.

If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Resource Links

- https://www.seeedstudio.com/TFmini-i-LiDAR-Module-Single-Point-Ranging-LiDAR-CAN-Interface-p-4912.html
- Datasheet
- User Manual
- 3D File

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