TOFSense-F2 P is a single-point laser rangefinder sensor based on TOF (Time of Flight) technology. The ranging range is 0.05m~40m; The distance resolution is 1mm; The data update frequency can reach up to 100Hz; The FOV(Field of View) is 1~2°; It supports UART, IIC interface, and I/O complementary level output; In UART mode, it supports active and query data output.

Typical Specifications

Weight		7.5 g
Size[1]		22.7*28.0*13.6 mm
Interface[2]		UART
		IIC
		I/O
Measure Frequency		100 Hz
Range of Distance		0.05~40 m
Distance Accuracy[3]	STD	3 mm
	RMSE	3 cm
Wavelength[4]		905 nm
Resistant to Ambient Light		About 100K LUX Illumination
FOV		1~2°
Service Voltage		4.3~5.2 V
Power		250 mW
Working Temperature[5]		-10~60 ℃
Storage Temperature		-30~60 ℃
Levels of Protection		*

Applications

Robot Obstacle Avoidance

Personnel Detection

Conveying Detection

Hydraulic Level Detection

Drone Altitude Hold

[1] Length * Width * Height, please refer to page 2 for detailed dimensions.

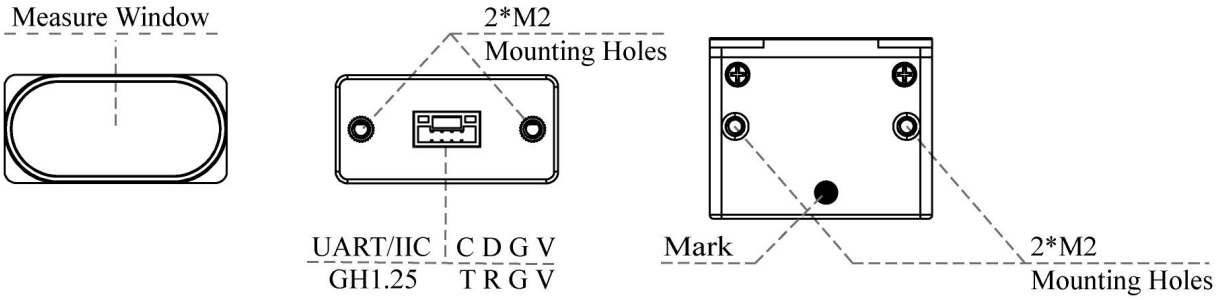
[2] The interface can serve as UART, IIC, and IO interfaces simultaneously, with a TTL signal line level of 3.3V. The default UART baud rate is 921600 bps.

[3] Detailed reference accuracy test report.

[4] 750-830nm laser complies with the Class2 standard specified in IEC 60825-1:2014 3rd edition, and is currently under review for the 940nm and 905nm bands.

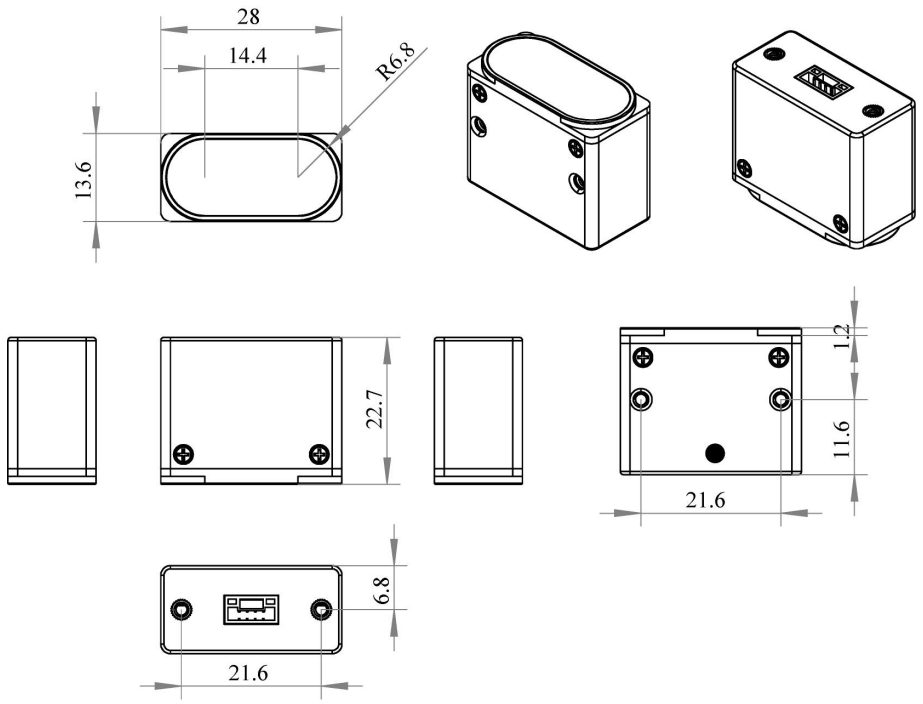
[5] The data was obtained through actual environmental testing, and actual use should be based on the working environment.

Structure



Size

Unit:mm



Note: The actual size may vary due to manufacturing process and measurement method. Please refer to the actual product.

More information

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