






TOFSense-F2 Mini is a single-point laser rangefinder sensor based on TOF (Time of Flight) technology. The ranging range is 0.02m~7.8m; The distance resolution is 1mm; The data update frequency can reach up to 50Hz; The FOV(Field of View) is 2~3°; It supports UART, IIC interface, and I/O complementary level output; In UART mode, it supports active and query data output.



Typical Specifications			Applications	
Weight		1 g	  Robot Obstacle Avoidance   Personnel Detection    Conveying Detection   Hydraulic Level Detection   Drone Altitude Hold	
Size <sup>1</sup>		19.0*12.0*10.3 mm		
Interface <sup>2</sup>		UART		
		IIC		
		I/O		
Measure Frequency		50 Hz		
Range of Distance		0.02~7.8 m		
Distance Accuracy <sup>3</sup>	STD	3 mm		
	RMSE	3 cm		
Wavelength <sup>4</sup>		940 nm		
Resistant to Ambient Light		About 100K LUX Illumination		
FOV		2~3°		
Service Voltage		4.3~5.2 V		
Power		100 mW		
Working Temperature <sup>5</sup>		-10~60 °C		
Storage Temperature		-30~60 °C		
Levels of Protection		*		

<sup>1</sup> Length \* Width \* Height, please refer to page 2 for detailed dimensions.

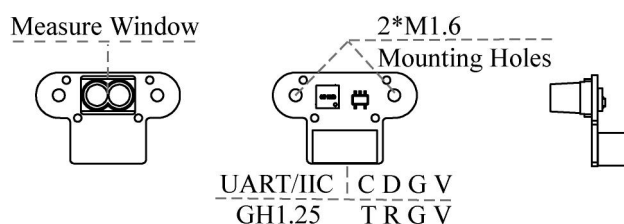
<sup>2</sup> The interface can serve as UART, IIC, and IO interfaces simultaneously, with a TTL signal line level of 3.3V. The default UART baud rate is 921600 bps.

<sup>3</sup> Detailed reference accuracy test report.

<sup>4</sup> 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.

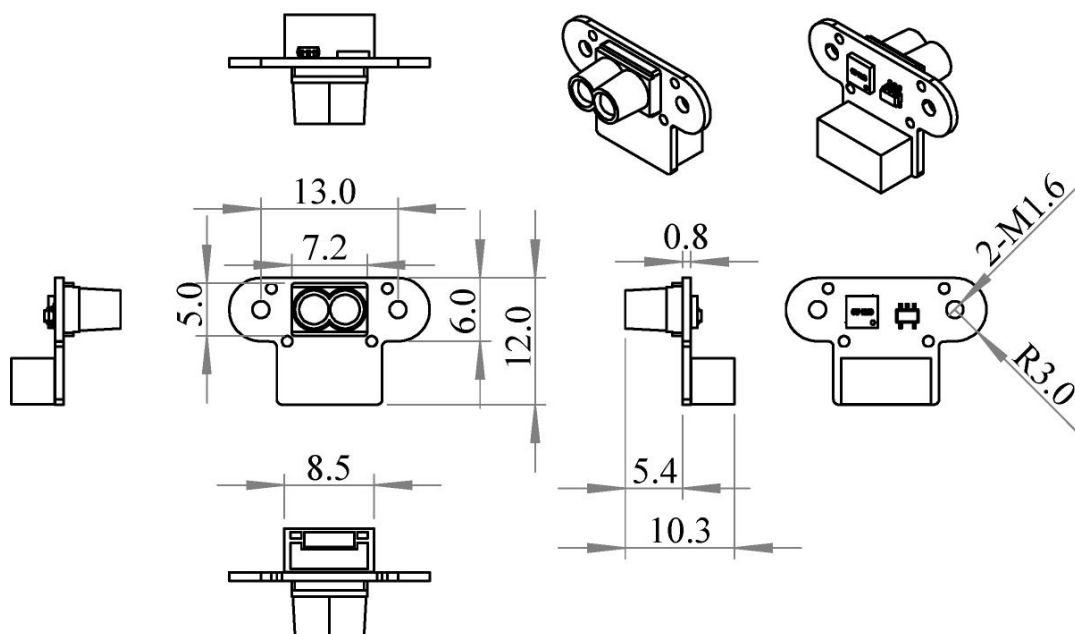
<sup>5</sup> The data was obtained through actual environmental testing, and actual use should be based on the working environment.

## 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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