

TF02-i LiDAR Module

Datasheet SJ-PM-TF02-i A02

TF02-i is an updated single-point ranging LiDAR based on TF02-Pro. It has been optimized in communication interface, input voltage and reverse protection,

Main Product

Characteristics

- 7-30V wide range input voltage
- Reverse protection
- CAN/RS485 interface

Main application

scenarios

- Pedestrian detection
- Vehicle testing
- Altitude



■ Technical specification parameters

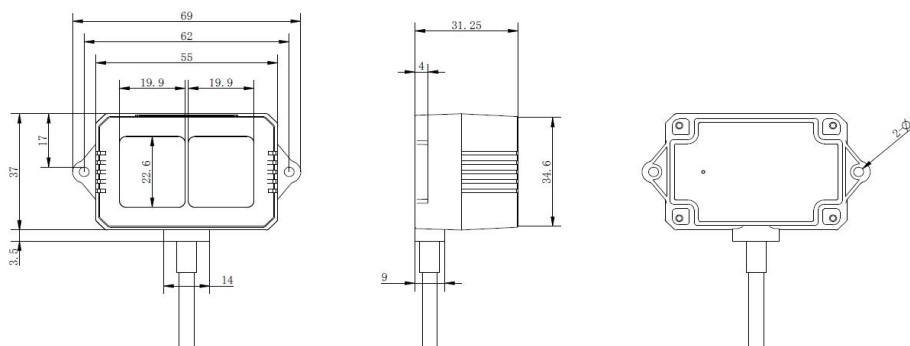
Parameters		Value
Product performance	Operating range	0.1~40m@90% reflectivity 0.1~13.5m@10% reflectivity 0.1~40m@90% reflectivity(100Klux) 0.1~13.5m@10% reflectivity(100Klux)
	Accuracy ¹	±5cm(0.1~5m), ±1%(5~40m)
	Distance resolution	1cm
	Frame rate	100Hz
	Repeatability	1σ:<2cm(0.1~35m@90% reflectivity)
	Ambient light immunity	100Klux
	Operation temperature	-20~60℃
	Enclosure rating	IP65
Optical parameters	Light source	VCSEL
	Central wavelength	850nm
	FOV	3°
	Photobiological safety	Class 1(EN60825)
Electrical parameters	Supply voltage	7~30V
	Average current	≤70mA@12V
	Power consumption	≤0.85W@12V
	Peak current	100mA

¹ The accuracy is measured at temperature of 25℃ with white board (90% reflectivity). The error may be increased if condition changes

	Communication	RS-485	CAN
Others	Dimension	69mmx41.5mmx31.5mm (L*W*H)	
	Weight	60g(with cable)	
	Shell material	PC/ABS/PMMA	
	Storage temperature	-30~80°C	
	Cable length	70cm	

■ Product appearance structure

TF02-i appearance dimensions (unit: mm)



■ communication interface

Table 1 Communication Interface — RS485

Interface parameters	Default value
baud rate	115200
Data bits	8
Stop position	1
Parity check	None

Table 2 Communication Interface — CAN

Interface parameters	Default value
baud rate	250kbps
ID received	0x00000003
ID sent	0x00000003
Frame format	Standard frame

■ Configuration parameters

Configuration parameter list

Parameters	Description	Description
Frame rate	Adjustable,1~1000Hz	100Hz
Baud rate	Adjustable	/
Reset default	Reset all the settings to factory settings	/

PS: Refer to user manual for more information

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