

SPL12-CAN/485 LiDAR

SPL12-CAN/485 is an updated single-point ranging LiDAR based on TFmini-S. It has been optimized in communication interface and input voltage, making it satisfy different industrial applications. The product is based on the ToF (Time of Flight) principle and provides stable, accurate and reliable ranging performance.



Main features

- Wide range input voltage
- CAN/RS-485 interface

product Main application scenarios

- Pedestrian detection
- Vehicle detection
- Altitude gauge
- Robot

SPECIFICATIONS

Parameters	Typical Value			
Product Performance	Operating Range	Indoor 0Klux	0.1m~12m @90% reflectivity ¹ 0.1m~7m@10% reflectivity ²	
		Outdoor 70Klux	0.1m~12m @90% reflectivity 0.1m~7m@10% reflectivity	
		Accuracy ³	±6cm @ (0.1m~6m) ; ±1% @ (6m~12m)	
		Distance resolution	1cm	
	Frame rate ⁴	1Hz~100Hz (adjustable, default 100Hz)		
	Ambient light immunity	70Klux		
	Enclosure rating	IP65		
Optical parameters	Photobiological safety	Class 1 (IEC60825)		
	Central wavelength	850nm		
	Light source	VCSEL		
	FoV ⁵	2°		



Electrical parameters	Supply voltage	DC 7V~30V		
	Average current	≤65mA @12V		
	Power consumption	≤0.8W @12V		
	Peak current	100mA@12V		
Others	Dimension (L×H×W)	50mm×34mm×41mm		
	Housing	ABS/PC/PMMA		
	Operating temperature	-20°C~60°C		
	Storage temperature	-30°C~75°C		
	Weight	52g (with cables)		
	Cable length	70cm(including 7P terminal) / 200cm(no terminal)		
Communication interface	RS-485		CAN	
	Interface parameters	Default value	Interface parameters	Default value
	Baud rate	115200	Baud rate	250kbps
	Data bit	8	Receiving ID	0x00000003
	Stop bit	1	Transmitting ID	0x00000003
	Parity	None	Frame Format	Standard frame
Dimensions				
<p>1.The detection range is determined with the standard white board (90% reflectivity) at 25°C, changes in conditions may cause changes in measurement results.</p> <p>2.The detection range is determined with the standard black board (10% reflectivity) at 25°C, changes in conditions may cause changes in measurement results.</p> <p>3.The accuracy is measured with the standard white board (90% reflectivity) at 25 °C , changes in conditions may cause changes in measurement results.</p> <p>4.The highest frame rate is 100Hz, the customized frame rate should be calculated by the formula: 200/n (n is an integer with ≥ 2).</p> <p>5.The angle is a theoretical value, the actual angle value has some deviation.</p>				



6.SPL12-CAN/485 mounting holes are 5mm deep (non-through hole) with $4 \times \phi 1.6$ holes on the back. Use M2 cross round head and flat tail self-tapping screws to install the holes

7.Disclaimer : As our products are constantly improving and updating, the specifications of SPL12-CAN/485 are subjected to change. Please refer to the official website for the latest version.

