

[PFS-L-2K]

[2D Single Line Lidar] | [Data Sheet]

Sensing for a Safer World



It is a small size, multi-laser beam LiDAR developed by SentiAcu, which is particularly suitable for applications such as obstacle avoidance, activation trigger. Multiple parameters are available for customers to customize and configure to meet various application requirements.

Technical Specifications

Performance

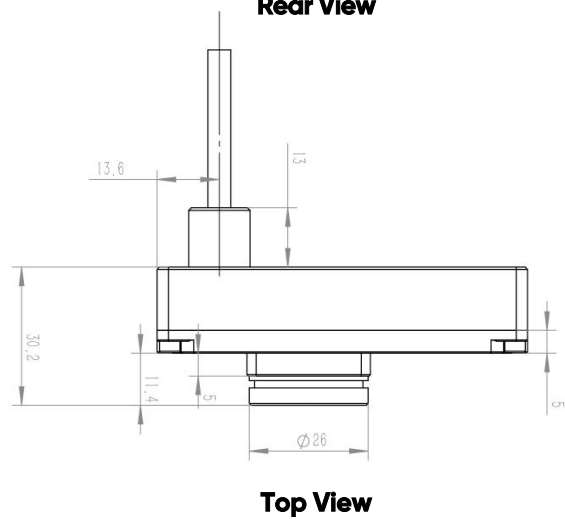
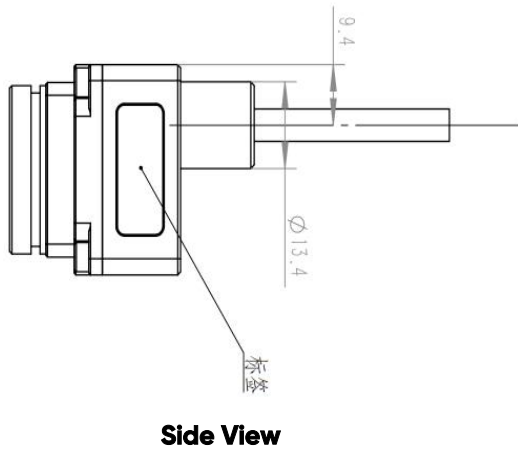
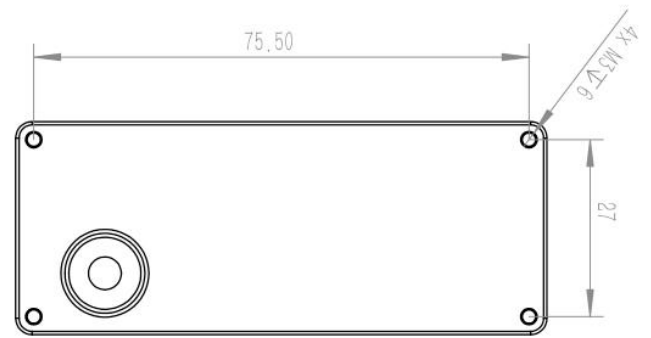
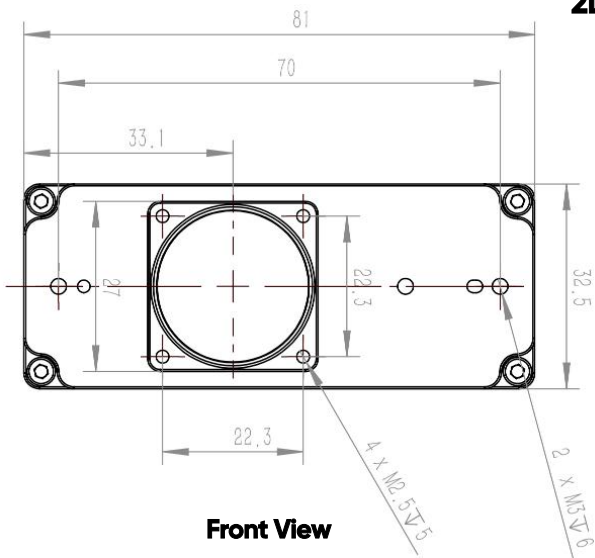
Performance	
Measurement Range	$\geq 20\text{m}@10\%$ reflectivity, 100Klux; Maximum ranging distance 100m
Blind Spot	$\leq 10\text{cm}$
Accuracy	$\leq 5\text{cm}$
Precision	$\leq 5\text{cm}@1\sigma$
Number of Channels	48-channel
Echo Mode	Default first return, Strongest return & last return configurable



Sampling Rate	2KHz
Optical	
Light Source	VCSEL
Central Wavelength	940nm
Field of View	48°×0.8° (Typical Value)
Mechanical and Electrical	
Average Power Consumption	≤3W
Startup Time	<1s
Supply Voltage	DC 12V
Operating Temperature	-20℃ ~65℃
Storage Temperature	-40℃ ~ 85℃
Size	81mm*32.5mm*30.2mm
Weight (without wire)	100g
Communication Interface Parameters	
Communication Interface	RS485
Baud Rate	5Mbps



2D Drawing



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