

Overview:

The TSD20 LiDAR is newly launched DTOF single point LiDAR and is specially designed for applications such as drones, cleaning robots, and industrial robots

Applications

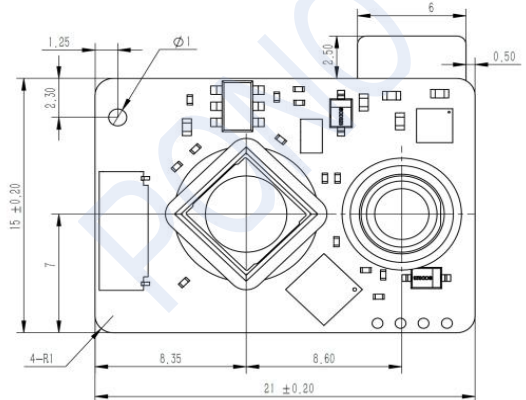
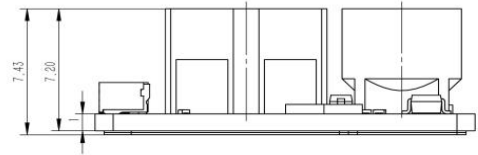
- Drone Altitude Holding and Obstacle Avoidance
- Robots Obstacle Avoidance
- Industrial Grade Light Curtain
- AGV Obstacle Avoidance
- High-speed Measuring and Safety Monitoring
in Traffic and Industrial Automation



Features:

- Compact size, flexible to install
- High resistance to ambient light
- Cost-effective

Dimensions:



Specification

#	Model	TSD20
1	Range	0.05m~20m (90%reflectivity), 0.05m~10m (10%reflectivity)
2	Frequency	200Hz
3	Accuracy	±5cm (<5m), 1% (≥5m)
4	Repeatability	±10mm
5	Ambient Light Immunity	8m@100KLux
6	Central Wavelength	905nm
7	Photobiological Safety	Class1
8	FOV	3.4°
9	Wavelength for Indication	N/A
10	Photobiological Safety for Indication	N/A
11	Supply Voltage	3~3.6VDC
12	Peak Current	3.3V@70mA
13	Average Current	3.3V@40mA
14	Average Power Consumption	<0.2W
15	Communication Interface	UART/IIC
16	Protection Level	N/A
17	Dimension	21x 15 x 7.43 mm
18	Weight	2g
19	Operating Temperature	-20°C~ +60°C
20	Wire Specification	6pin 0.8mm terminal, 20cm tinned stranded wires
21	Customization	available in appearance / structure / output protocol

Definitions of Pins



No.	Definition / Wire Color	User Interface
1	NC (Red)	/
2	3.3V (Black)	External Power +
3	TX (SCL) (Yellow)	RX (SCL)
4	RX (SDA) (Green)	TX (SDA)
5	NC (Blue)	/
6	GND (White)	External Power -

Order Information

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Note:

- Strictly ensure that the product is used within the rated specifications
- Versions and parameters will be updated without prior notice.