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Range Finder Sensor
LS-0905C-200M-3D-A4-X

Features

- High precision
- High measurement frequency, 200 or 1000Hz
- Long ranging up to 200m
- IP67 waterproof protection
- Good real-time performance
- Friendly interface
- Small size
- High reliability

Applications

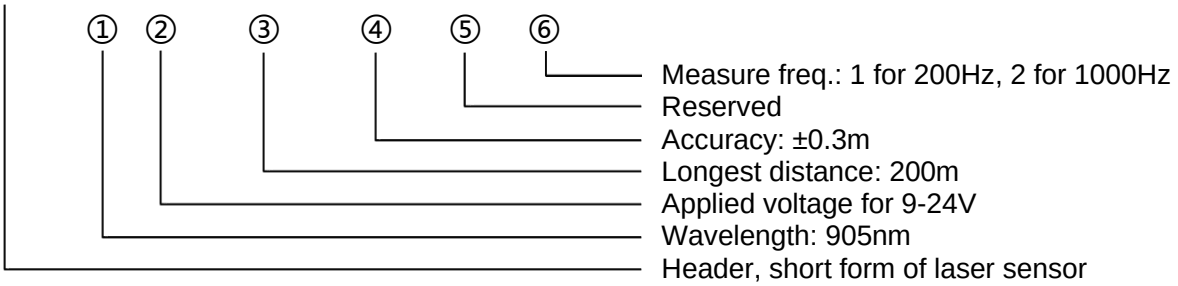
- ADAS vehicle system
- Robot navigating system
- Traffic control system
- Industrial automation
- Military applications

PRODUCT IDENTIFY

Part Number	Description
LS-0905C-200M-3D-A4-X	905nm VCSEL, Range finder sensor, 0.5~200m, 200/1000Hz

CODE RULES

e.g. LS – 0905C – 200M – 3D – A4 – X



Description

A4 is high-performance range finder sensors, integrated with excellent optics and high accuracy timer. It can measure up to 1000Hz stably and can give out the real-time distance between range finder and the object. It is easy to integrate due to its friendly interfaces and compact size. It is ideal for vehicle ADAS system, robot navigation system and smart traffic monitoring.

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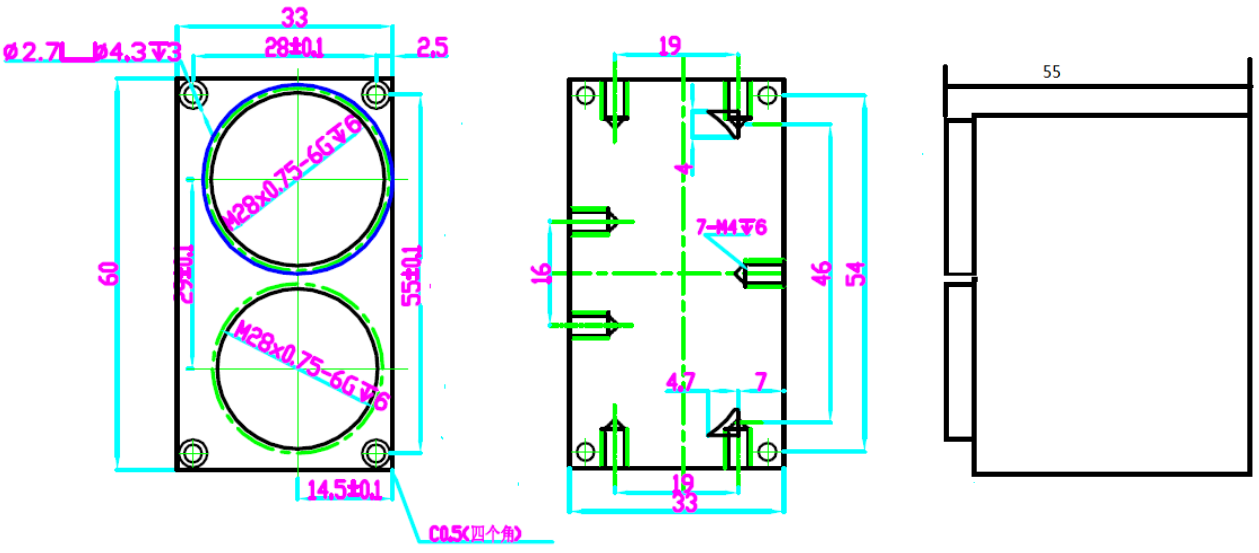
Specifications

Parameters	Typical values		Unit	Remarks
Model no.	LS-0905C-200M-3D-A4-1	LS-0905C-200M-3D-A4-2	-	
Range	0.5~200		m	Grey object
Accuracy	±(0.1~0.3)		m	Maximum error
Resolution	0.03		m	
Measured Frequency	200	1000	Hz	
Laser wavelength	905		nm	Full angle
Fan angle	< 5		mrad	
Laser class	Class IIB		-	Eye safe
Indicator	-		-	Eye safe
Water and dust proof	IP67			
Can material	Aluminum alloy			
Can color	Black			
Operating temperature	-30~60		°C	
Storage temperature	-40~70		°C	
Power supply	9~24		V	
Power consumption	< 2		W	
Dimensions	L55×W60×H35		mm	
Data interface	RS232 / 0~5V		-	Select one
Data anode	See manual			
Data cathode	See manual			
Baud	9600		bps	
Power supply anode	Red		-	
Power supply cathode	Black		-	
Control signal	TTL (if have)		-	
Control cable	White (if have)		-	
Communication protocol	See manual			

Mechanical drawing



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Laser safety

The laser used in this device is classified as Class IIB, which is eye-safe one. Please refer to GB7247.1-2016 / IEC60825-1:2014 “Laser Product Safety: Part 1: Devices classifications, requirements and user’s manual”.

Copyright

Revision history

Revision	Date	Description
V.01	2020/01/07	The first official edition