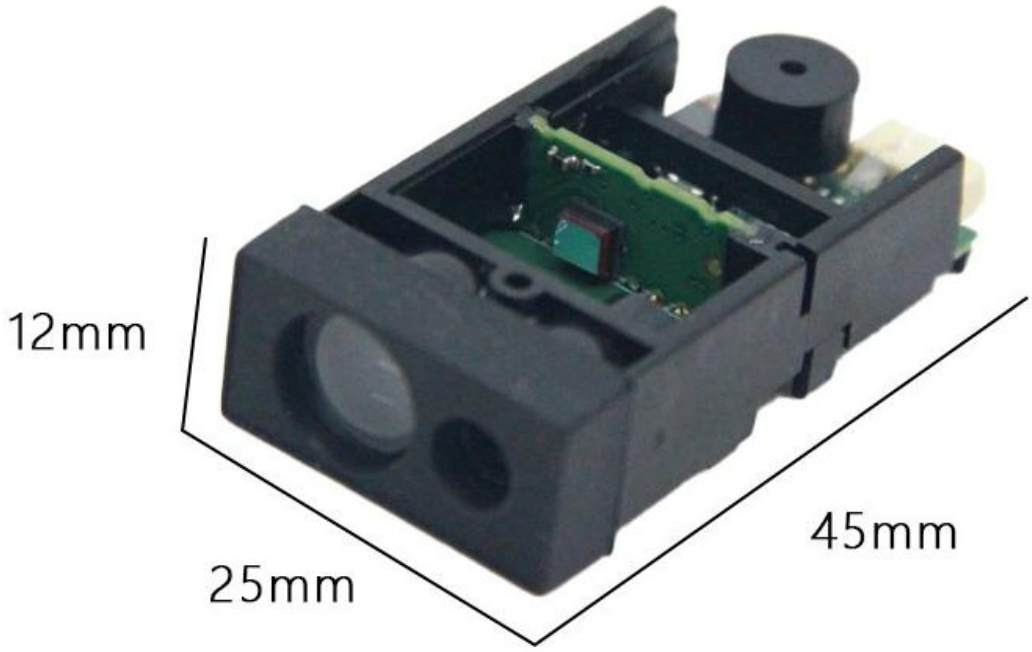
# 40m Measuring Sensor

M Series




> Measuring Range: 0.03m -40m
> High Precision: ±1mm
> Hexadecimal protocol
> Low consumption, long lifetime

## “3S”

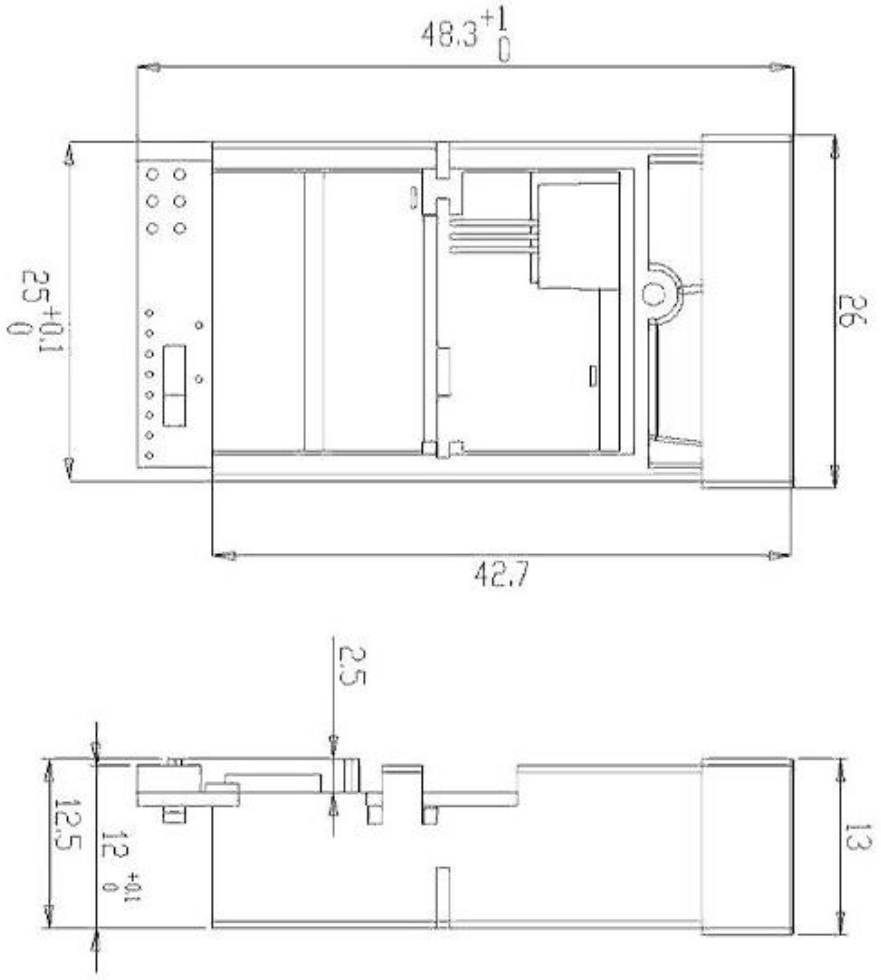
> Supports adaptive baud rate: 9600bps/19200bps/115200bps
> Strong anti-interference capability
> Support secondary development

Would like to know more info, send us email or visit our website.

## Parameters:

Range: 0.03 - 40m
Measuring accuracy: ±1mm
Measuring time: 0.4-4s
Measuring frequency: Up to 3Hz
Laser Type: 620nm ~ 690nm, ＜1mW
Laser Class: Class 2
Interface options: CMOS/Serial/TTL/USB/Modbus RTU
Size: 45*25*12mm
Weight： about 10g
Working temperature: 0 ~ 40℃
Storage temperature: -25 ~ 60℃
If you have any other required customization, welcome to contact us.

## Dimensions



## Operation Protocol

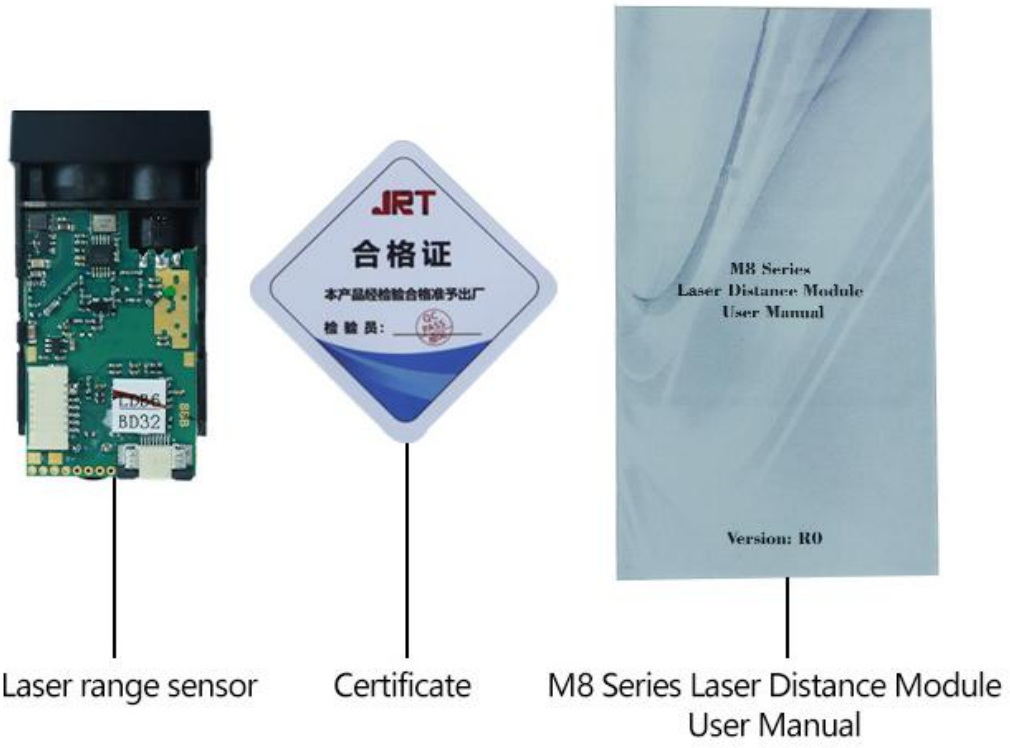
USART Interface

- Baud rate: Auto Detect (9600bps ~115200bps recommend) OR Default 19200bps
- Start bits: 1 bit
- Data bits: 8 bits
- Stop bits: 1 bit
- Parity: none
- Flow control: none

## Status Codes

| Status Code | Description |
|---|---|
| 0x0000 | No error |
| 0x0001 | Power input too low, power voltage should >= 2.2V |
| 0x0002 | Internal error, don't care |
| 0x0003 | Module temperature is too low(< -20°C) |
| 0x0004 | Module temperature is too high(> +40°C) |
| 0x0005 | Target out of range |
| 0x0006 | Invalid measure result |
| 0x0007 | Background light too strong |
| 0x0008 | Laser signal too weak |
| 0x0009 | Laser signal too strong |
| 0x000A | Hardware fault 1 |
| 0x000B | Hardware fault 2 |
| 0x000C | Hardware fault 3 |
| 0x000D | Hardware fault 4 |
| 0x000E | Hardware fault 5 |
| 0x000F | Laser signal not stable |
| 0x0010 | Hardware fault 6 |
| 0x0011 | Hardware fault 7 |
| 0x0081 | Invalid Frame |

## Sample Accessories




**Chengdu JRT Main Ranging Modules:** Industrial Laser Distance Sensors, Laser Rangefinder Sensor , Tof LiDAR Sensors.

For more info, please feel free to contact us.