Laser Distance Module-TC Series
Technical Data Sheet

Introduction

TC series are the latest generation of outdoor long range modules, they are widely used because of the cylindrical shape, small size, light weight, strong measurement ability, high measurement accuracy, and simple installation and operation, etc.

Meskernel provides a series of customization service including but not limited to range, accuracy, baud rate, frequency, communication interface, temperature, etc., if you have any customization request, please feel free to contact us.

Specification

Optical specifications	
Part No.	TC22 / TC25
Range	3-1000m/1500m (Reflectivity: 1.0, Interference light intensity: 3kLux)
Accuracy	±1m (Reflectivity: 0.2-1.0, Interference light intensity: 1kLux)
Frequency	1-3Hz (Reflectivity: 1.0, Interference light intensity: 1kLux, Distance: 0.03-10m)
Laser Type	905nm, Invisible
Laser Class	Class I (IEC 60825-1:2014), <0.4mw
Measurement Method	Pulse principle
Electrical specifications	
Input Voltage	DC 3.3V~5V
Power consumption	330mW@3.3V
Communication specifications	
Communication Level	TTL (3.3V)
Interface	UART, RS232, RS485
BaudRate	Default 115200 bps
Other specifications	
Dimensions	43* ϕ 22mm (L*D) / 43* ϕ 25mm (L*D)
Weight	15g / 18g
Working Temperature	0~50 ℃ (32-122 ℉)
Storage Temperature	-30~60 ℃ (-22~140 ℉)
Certification	CE / FCC / RoHS / FDA
Warranty	12 months

Note

1. Under poor conditions (such as: dark color, bad reflectivity or atmospheric visibility, strong ambient light, etc.), the measurement accuracy may have small error.
2. Please use the target plate when there is strong sunlight or the target with poor reflection.
3. Before using the product, please read the relevant chapters of installation and operation carefully to prevent damage to the sensor, please contact us if you need more information.
4. Free of Responsibility: INCORRECT using condition and storage condition, and service life of the module is exhausted during warranty period, the warranty will be TERMINATED.