MYK VISION

MYK -1535
EYE-SAFE LASER RANGING MODULE

HIGH ACCURACY • LONG RANGE • COMPACT & RELIABLE

PRODUCT OVERVIEW

The MYK -1535 Eye-Safe laser ranging module is developed and produced using the self-developed bonded crystal grinding glass laser. It belongs to the Class 1 eye-safe laser rangefinder. It can measure NATO targets at a distance of ≥3000 m, featuring a small size and low power consumption.
It is a precision optoelectronic product that calculates distance information by emitting laser to the target to be measured and based on the laser flight time.
This laser rangefinder achieves communication through a 3.3V TTL communication interface, and is characterized by outstanding performance and simple operation.



- EYE-SAFETY Class 1
- MAX RANGE ≥3000 m (NATO Targets)
- HIGH ACCURACY ± 2 m
- LIGHT WEIGHT ≤ 29 g

PERFORMANCE INDICATORS

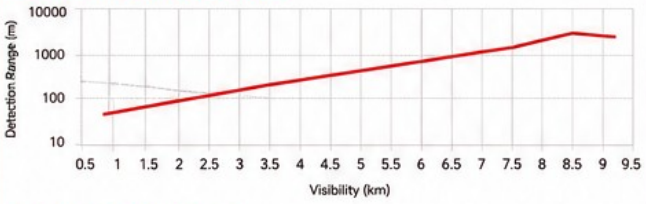
Parameter	Specification	Parameter	Specification
Model	MYK -1535 Eye-Safe Laser Ranging Module	Ranging Frequency	Single, 1Hz, 5Hz, 10Hz
Laser Wavelength	1535±5 nm	Number of multi-target detections	Up to 3 targets
Eye-safety	Class 1	Ranging Accuracy	±2 m
Divergence Angle	≤1 mrad	Range Resolution	≤0.1 m
Laser Energy	≥100 μJ	Precision Rate	≥98 %
Launch Lens Diameter	Φ18 mm	False Alarm Rate	≤1 %
Receiver Lens Diameter	Φ20 mm	Supply Voltage	DC 3 – 5 V
Ranging Accuracy (Reflector 30% albedo @ 25°C)	NATO detection: 2.3m (2.3m × 2.3m target) Measuring human target: 0.5m ±1.7m (2×1500 m)	Average Power Consumption	≤0.8 W
Minimum Range	≤15 m	Operating Temperature	-20 °C ~ +50 °C

MECHANICAL & OPTICAL SPECIFICATIONS

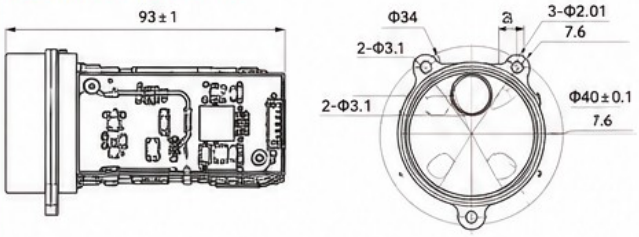
1. GENERAL SPECIFICATIONS

Pin-to-Pin package model	FATP00200-500M1510M14
Standby Power Consumption	≤1 mW
Peak Power Consumption	≤1.5 W
Weight	≤29 ± 1 g
Dimension (L × W × H)	93.4 mm × Φ35 mm
Storage Temperature	-45 ~ +75 °C
Ingress Protection	Meet the MIL-STD-810G sealing standard
Vibration Resistance	Meet the MIL-STD-810G testing standard

2. VISIBILITY VS. DETECTION RANGE



3. OUTLINE DIMENSION (mm)



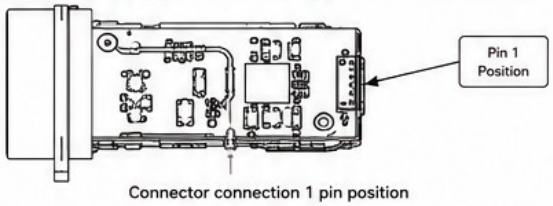
Note: Tolerance unless otherwise specified: ±0.3 mm

ELECTRICAL & COMMUNICATION INTERFACE

1. PIN INTERFACE (8PIN CONNECTOR)

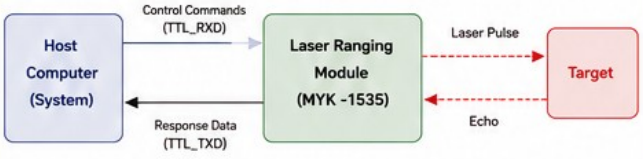
A. Power supply voltage: 3~5V.
B. The laser ranging module uses a working level with the rangefinder through a TTL level (0-3.3V) (STANDARD: Q/BOJ0201037-2015 standard).
C. The connector model MOLEX: 53048-0810 or equivalent, 8 pins connector.

Pin	Interface/ Definition	Definition of interface function	Cable color
P-1	GND	Input power negative pole	Black
P-2	VIN	Input power positive pole	Red
P-3	TTL_RXD)	Signal input port (low level computer)	White
P-4	TTL_TXD	Signal output port (low level computer)	Green
P-5	TTL_RXD	Signal input port (high level computer to rangefinder)	Yellow
P-6	POWER_CTL	Power control interface +3.3V to turn on, <0.6V to turn off	Blue
P-7	Reserved	Reserved	Purple
P-8	Reserved	Reserved	Gray



Connector connection 1 pin position

2. COMMUNICATION INTERFACE OVERVIEW



LONG RANGE ≥3000 m (NATO Targets) | HIGH ACCURACY ± 2 m | EYE-SAFE CLASS 1 | LIGHT WEIGHT ≤ 29 g | LOW POWER ≤0.8 W

BUILT FOR PRECISION. DESIGNED FOR RELIABILITY.