ML-M2000DX RFID Reader

1. Product Pictures

2. Product Features

Support the communication with computers by RS485/Wiegand-26/ Wiegand-34/TCP/IP method.

Encryption calculation and certification, to ensure data security, to prevent the crack with the data link eavesdropping

Controllable range, maximum support 32 level power control; The adjustment of reception distance by sending commands to readers

Be able to identify fast mobile electronic tags within 200 km/hour

Be able to identify 200 cards at the same time

The use of channel isolation technique, non-interference multiple devices

The advanced collision technology, support for multiple tag reading and writing

Configurable microwave work module, transmitted power can be adjusted

Compatible with customers card

Meet the requirements of industrial environment

Physical Properties

Housing Material: Front plastic, aluminum back

Weight: 2.5 kg

Color: off white

Outlook: 320*200*100mm

Protection grade: IP65

Installation: Special mounting bracket, derrick installation

3. Electrical characteristics

Working Voltage: +9V 到+12V DC（MAX 1000mA）

Working current: <1000mA

Reliability: MTBF more than 70000 hours

Working life: longer than 15 years

Communication interface: RS232/RS485/Wiegand

4. Air Link Specifications

Modulation：GFSK

Working frequency: 2.4~2.5 GHz

Receiving sensitivity：≤-93dBm(Can be adjusted by sending commands)

Antenna polarization: vertical

Recognition range: Orientation recognition

Microwave Communication distance: 0-100 meters

Link Error Check: CRC16

Bit-error rate/B.E.R：10^{-7}

Working Environment

1.Anti-interference and lightning protection design, meeting the needs of the industrial environment

2.Working temperature：-40℃～+80℃

3.Storage Temperature：-60℃～+80℃

4.Anti-electromagnetic interference: 10V/m 0.1～1000MHz AM

Application Fields

Trans parking system

Vehicles no-parking management system

Home school access system School access system

Tunnel personnel management system installation

Underground personnel positioning management system

Forces classified asset management system

Automatic recognition system of motor vehicle electronic license plate

Automatic management syatem of bus benchmarking

Automatic examination system of Entry - Exit of enterprise or business unit personnel

Warehouse management of Entry - Exit

Warehouse electrical equipment inspection

Sea transport、water transport、highway and railway container transport

Other remote automatic identification system

Warning

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.