MR-00LR-915-SXH

MR-00LR-915-SHX MID-915 Reader with built in 12dBi antenna, reading 1-12m, widely applied in intelligent transportation, customs access management, warehouse logistics, and so on.

Functions

- UHF (919-923MHz) band, equipped with 12dBi antenna
- Support standard RS-232, Wiegand 26 or 34 interface
- RS485, Ethernet interface (optional)
- Software-trigger, set time-trigger and out-trigger suitable for customer's applications
- 1-12m reading range
- Strong API user interface

Specification

Performance Index	
Operating Frequency	919MHz - 923MHz, RF band customized (optional)
Frequency Hopping	FHSS or Fixed Frequency
Power Output	0dBm ~ 30dBm, able to set from software
Antenna	Built-in 12dBi linear polarization antenna (horizontal/vertical customized)
Communication Interfaces	RS-232 , Wiegand 26/34
Expanding Interfaces	RS-485, 10M/100M Ethernet interfaces
Application Software Platform	API(C++, C#) development kit (can be customized)
Tag Operation	
Tag Protocol	ISO18000-6B, EPC Class 1 Gen 2(ISO18000-6C)
Reading Range	0~12m

Mechanical/Electric Performance	
Waterproof	IP55
Power	DC 12V
Power Assumption	Not more than 4W
Dimension	445*445*55mm
Operating Temperature	-20℃ ~ +80℃
Storage Temperature	-40℃ ~ +125℃
Humidity	20%～95%(non-condensing)

Reader Wiring Connection

Pin Number	Pin Name	Cable Color	Function Explanation
1	DC+12V	Red	Power input, +9V～15V
2	GND	Black	Grounding
3	TXD	Brown	RS232 serial port send (PIN2)
4	RXD	Yellow	RS232 serial port receive (PIN3)
5	GND	Blue	RS232 serial port grounding (PIN5)
6	Trigger	Grey	Trigger pin
7	DATA1/485A+	White	Wiegand data 1 or 485+
8	DATA0/485B-	Green	Wiegand data 0 or 485-

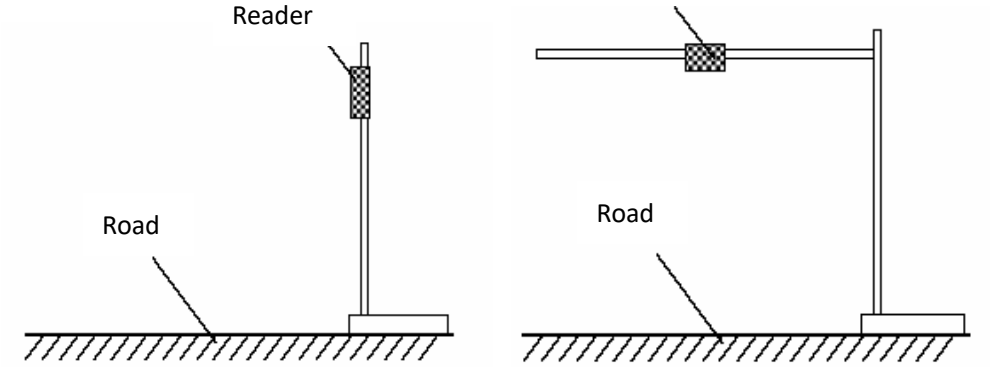
Install Instruction

MID-915 Reader package come with a MID-915 reader plus accessories like bracket, RS232 cable and power adapter.



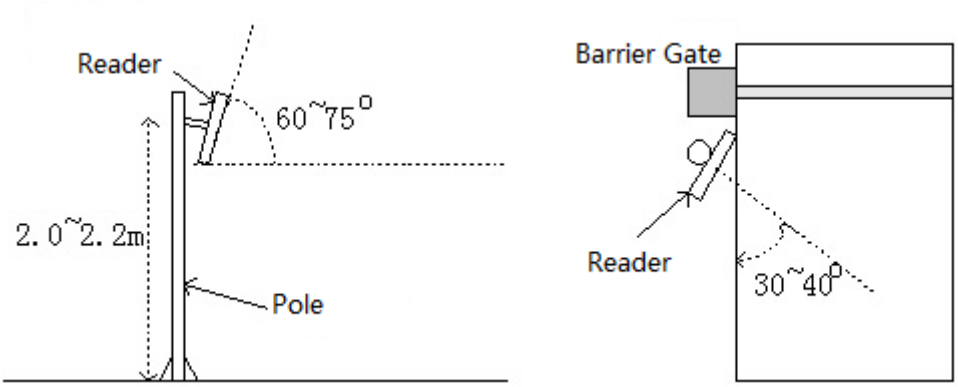
MID-915 UHF Long Range RFID reader

There are 2 types of the installation methods - install the reader at side of the road or top of the road.

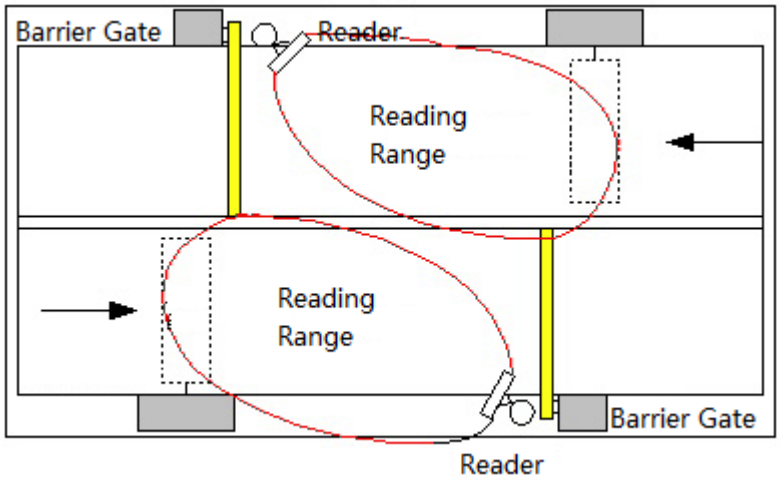


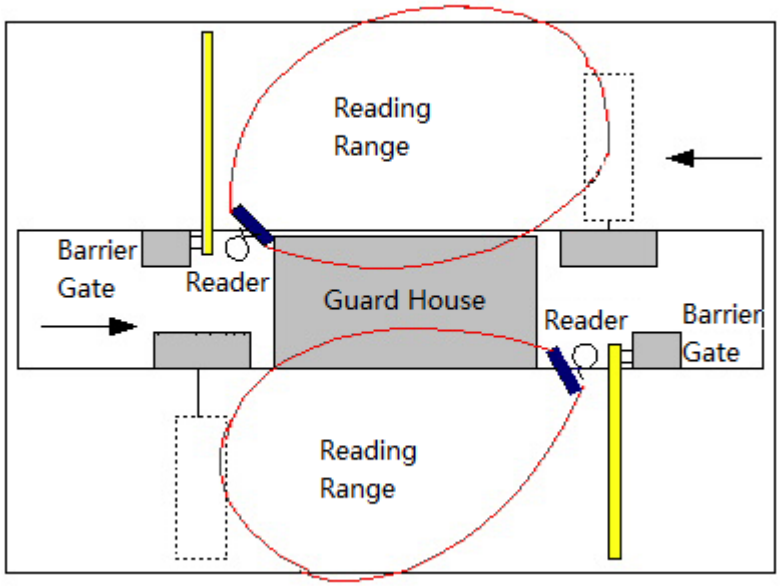
- Install at 1.8~2.2m height for the reader at side.
- Install at 3.5-4m height for the reader at top of the road.

As show below, the angle between the reader and the horizontal line is about 60-75 degree. The front of the reader tilts 30-40 degree to the direction that cars come:



- The reader should be install near to barrier gate with not more than 1 meter.





Tag Operation

- Support EPC GEN2 (ISO 18000-6C) and ISO 18000-6B tag protocol

MID-001 UHF Passive RFID Card

Model: MID-001
Frequency: ISM Band 860 MHz to 960 MHz
Read Range: 5 to 10 Meters or more
Transmission: Passive
Protocol: ISO 18000-6B or ISO18000-6C EPC Class1Gen2
Application: Glass Surface (Wind Screen of Vehicles)
Antenna Material: Aluminum
Antenna Substrate: Aluminum
Label Cover Material: PVC or PET
Label Size: 86*54*0.8mm
Data Retention Time in years: data can be saved for 10 years.
Life (In years): >10years

MID-915 UHF Long Range RFID reader

Reading Rate: Software Programmable: Average reading per 32bits<2ms
Work Temperature: -40 degree C~65 degree C
Storage Temperature: -55 degree C~100 degree C

MID-002 UHF Passive RFID Paper Tag

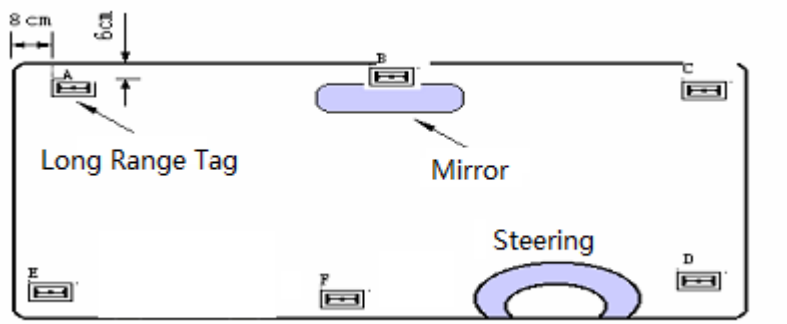
Model: MID-002
Frequency: 860 MHz to 960 MHz
Read Range: 5 to 10 Meters or more
Transmission: Passive
Protocol: ISO18000-6C EPC Class1Gen2
Application: Glass Surface (Wind Screen of Vehicles)
Label Size: 98*19mm
Data Retention Time in years: data can be saved for 10 years.
Life (In years): >10years
Reading Rate: Average reading per 32bits<2ms
Work Temperature: -40 degree C~65 degree C
Storage Temperature: -55 degree C~100 degree C

MID-003 UHF Passive RFID On-Metal Tag

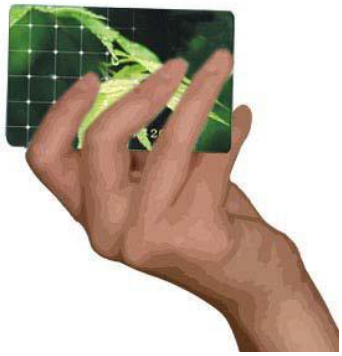
Model: MID-003
Frequency: 860 MHz to 960 MHz

Read Range: 12 Meters or more
Transmission: Passive
Protocol: ISO18000-6C EPC Class1Gen2
Dimension: 244*23*12mm
Data Retention Time in years: data can be saved for 10 years.
Life (In years): >10years
Reading Rate: Average reading per 32bits<2ms
Work Temperature: -40 degree C~65 degree C
Storage Temperature: -55 degree C~100 degree C

Installation of the long range tag:



Correct way to hold the long range card



Wrong way to hold the long range card