Anson

Middle-range Reader

User Manual

ASR-2656

Read the manual before usage and keep for future reference.

http://www.ansoncorp.com CE FC MA

1. Product Features

ASR-2656 is an important way of information data automatic identifying and inputting, it is a comprehensive technology base on computer and communication technology. The automatic identification technology develop quickly in recent years, which consist of bar code technology, magnetic stripe technology, RF technology, optical character identification technology, and UHF RFID reader etc.

Usually, ASR-2656 has high sensitivity. In some system, receiving and transmitting of UHF RFID reader is mutually independent, especially when uplink signal frequency is different from down going signal.

Generally, transmitting power 100mW-500mW is applicable to various UHF RFID readers.

2. Reader Parameters

ASR-2656 has many advantages of more protocol supporting, fast reading, more labels identification, circular polarization antenna and compact design. The reader is widely used in various RFID systems.

- Logistics and Warehouse management;
- Parking control system;
- Manufacturing management;
- Products anti-counterfeiting detection;
- Other field: club management, library, student school rolls, attendance management and swimming pool system etc.

3. Function

- Low power, stable reading and writing distance;
- Fast data reading speed;
- More labels are read at same time;
- More protocols supporting;
- Read speed: ≤0.5s
- Communication Distance: ≤100m

4. Specification

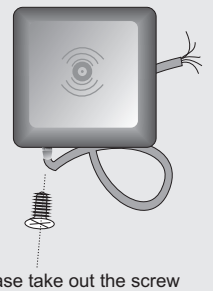
Working Frequency: National standard (920-925MHz), America standard (902~928MHz) or customize other frequency
Support Protocol: ISO18000-6B, ISO18000-6C (EPC GEN2)
Frequency Hopping: FHSS or fixed frequency set by software
Working Mode: Automatically reading card at regular time, can set reading card way
Frequency Power: 0-18dBm, be adjusted by software
Reading Distance: 1 - 6meter
Reading Sensitivity: Dual polarization reading
Reading Speed: One label 64 bit ID number <6ms
Antenna: Build-in circular polarization antenna, gain 8dB
Interface: RS 485, RS 232, Wiegand26, Wiegand 34, TCP/IP (Customize)
Working Voltage: DC 12V
Working Status Indication: Buzzer
Power: 1W
Working Temperature：-20℃ - +80℃
Storage Temperature：-40℃ - +125℃
Working Humidity: 20% - 95% (no condensing)
Dimension: 227mm×227mm×60mm

5.Wiring Nomination

Wire No.	Color	Function
1	Red	DC9V~15V
2	Black	GND
3	Green	DATA0(DATA/R+)
4	Yellow	TXD
5	Brown	RXD
6	Blue	GND
7	White	DATA1 (CLK/R-)

6. Installation Procedure

Note: The reader shown below maybe is different from the model purchased since only one type of reader is demonstrated here. However, the general installation procedure is similar.



6.1 Please take out the screw in the button of the reader, and then open the back cover.

7. Using Explanation

After ASR-2656 power on, buzzer will beep and start to work. When card approach reader, buzzer will beep a sound and send data. The time segment between two times of card presenting for same card can be setup by software. After present card, if card still in range of radio frequency, reader will have no any remind and do not send any data. But the time segment is exceeded or different cards entry radio frequency range, reader will read card and transmit data.

ASR-2656 adopts radio Reaction technology. Please avoid to approaching metal when using it. The radio wave will be affected by metal and reading distance will be shorted when reader approach to metal. ASR-2656 installation position should be far away from motor and transformer etc, to reduce the impact on reader.

ASR-2656 can work with M and 89 controller series or compatible with standard format devices which is Wiegand 26 bits/Wiegand 34 bits/RS485. ASR-2656 reader is mainly used in Parking lot . ASR-2656 reader provide SDK with demo of VB and VC.

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