



### 1 System Introduction of Entrance Guard

non-contact type ID inductive card is an advance entrance guard technology of radio frequency and infrared with RS-485 communication transmission. It can be connected to the computer and manage the system through the ID card. The system can be used single, connect to LAN or connect with other unit. The system consists of ID card, reading card utensil, wireless remote control writing card utensil, RS485 network device (D-03N), power supplier, data repeaters and village software.

### 2 Technical Index

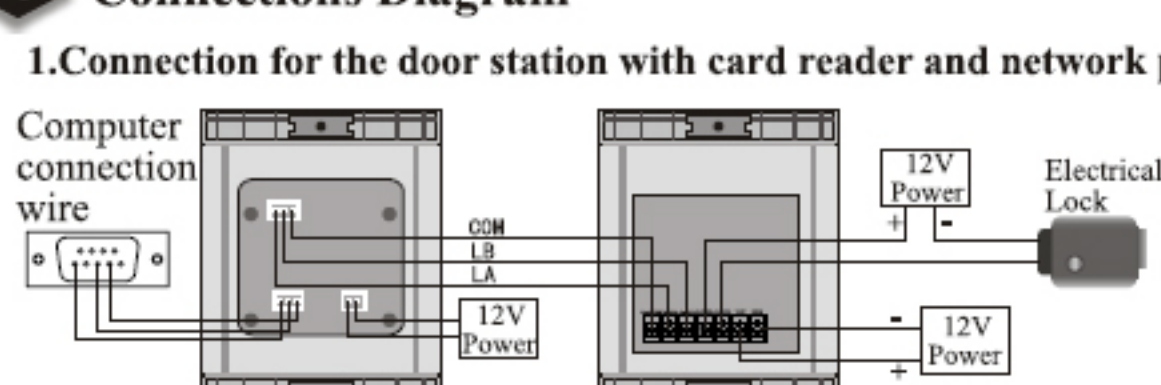
- (1) working voltage: DC12 ~ 18V
- (2) working current: 100mA
- (3) data transmission: RS485 interface and infrared communication
- (4) radio frequency: 125KHz
- (5) infrared modulate frequency: 38khZ
- (6) induce distance: 1-8CM
- (7) transmission pass: double twist shield line
- (8) reading card type: EM or Mifare

### 3 Main function

1. with real time monitor function, can connect to LAN with one or more reading card utensil
2. Issue card management: You can hear key hint and with LED flicker when use issue card utensil (remote control) to operate. All information of the user is memorized in computer and automatic renew
3. RS485 network communication distance can reach 1200 meters. Single general line can connect 32 pieces controller. When the distance is more than 1200 meters, data isolation repeaters should be added
4. can authorize to provide information for 4000 pieces user's card
5. entrance guard and patrol in one card

### 4 Connections Diagram

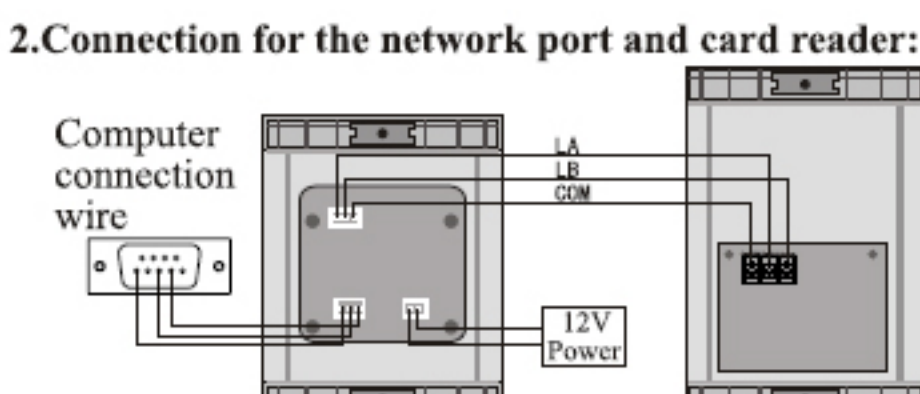
#### 1. Connection for the door station with card reader and network port:



**Note:** the work current for the electronic lock should  $\leq 1A$

**Wiring connection:** general lines type, twisted shield line needed when network.

#### 2. Connection for the network port and card reader:

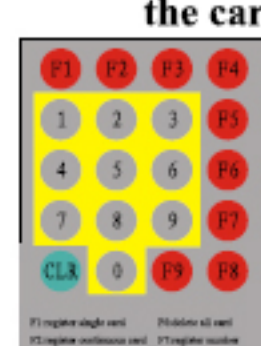


### 5 Instruction and use of each component

1. writing card utensil (remote control): computer battery 3V, can remote control reading card utensil. ("XXXXXXXX" below means eight digit card numbers)

**Note:** If card number is 8 digits, the first digit can't be >3.

If card number is 7 digits, "0" should be added in front of the card numbers.



writing card utensil (remote control)

(1) Password changement: input "F1+4 digits password" (original password is 1234), if password is correct, you can hear the correct sound, input new 4 digits password (twice), change password successfully.

(2) Enter into operation status: input "CLR+F3+F3+4 digits password", if hear the correct reference sound, then you can enter into operation status. (the following operation can proceed after entering into the operation status).

① **Unlock time setting:** Input "CLR+1+F3" to set unlock time 1 second.

Input "CLR+5+F3" to set unlock time 5 seconds.

**(The system tolerant unlock time is 1 second.)**

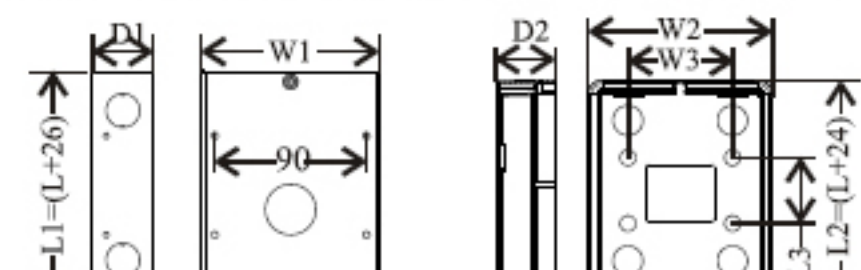
- ② Register single card----CLR+XXXXXXXX+F1
  - ③ Register continuous card----CLR+XXXXXXXX(begin)+XXXXXXXX(end)+F2 when you register for the first time, You can only input the first and the last card number (continuous number) to finish all the register, **the continuous number should not more than 50 pieces.**
  - ④ Register patrol card----CLR+XXXXXXXX+F3
  - ⑤ Delete single card----CLR+XXXXXXXX+F4
  - ⑥ Delete continuous card---CLR+XXXXXXXX(begin)+XXXXXXXX(end)+F5 (**Note: the continuous number should not more than 50 pieces**)
  - ⑦ Delete all card---- F6
  - ⑧ Register number----CLR+XXXX+F7
  - ⑨ Reading card register-----F8 + card 1, card 2.....card N+CLR (press CLR when finish)
  - ⑩ Reading card delete:-----F9+ card 1, card 2.....card N+CLR (press CLR when finish)
  - ⑪ CLR: delete
  - ⑫ After finish setting, press F3 to exit the set status.
- (3) ID card: to unlock entrance guard and patrol card can be in the same card if necessary
- (4) Reading card utensil: can register 4000 pieces card at most. Built-in antenna. The user can use registered ID card to unlock within 5 Cm in the inductive area. Security person can not unlock with ID card
- (5) network device: connect to the computer
- (6) data isolation repeaters: data repeaters should be used when the communication distance is more than 1200 meters

### 6 Installations

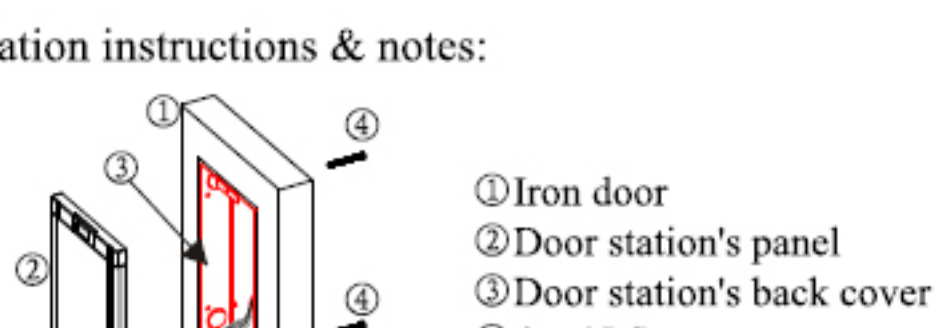
#### 1. Installation dimension & door station structure (Note: "L" in the following diagram is the length of aluminum alloy panel)

- (1) Reading card utensil: L=100mm
  - ① Installing dimension on iron door: 128(L1) × 108(W1) × 38(D1)mm
  - ② Installing dimension on wall: 126(L2) × 126(W2) × 42(D2)mm
- (2) Network port: L=138mm
  - ① Installing dimension on iron door: 166(L1) × 108(W1) × 38(D1)mm
  - ② Installing dimension on wall: 162(L2) × 126(W2) × 42(D2)mm

Drilling dimension on the wall: 70(L3) × 70(W3)mm



#### 2. Installation instructions & notes:



#### (1) Install the door station on the iron door:

- ① Drill a rectangular slot at the proper position on the iron according to the installation dimension of door station.
- ② Remove the back cover of door station, fix it on the iron, then fix the door station from back cover of door station with 2 pieces screws (M4×45) in our packing box.

#### (2) Install the door station on the wall:

- ① Drill a rectangular slot at the proper position on wall according to above corresponding dimension.
- ② Drill 4 holes of 6 in. Fix the back cover of door station by additional plastic pipes and 4.2 × 40mm screws in the slot.
- ③ Push door station panel tightly to back cover and fix door station from upside and downside of panel and back cover by 2 pieces of screws (M4 × 45).

#### (3) Notes:

- ① The holes should be drilled according to the size of door station and relative installation size on iron door or wall.
- ② While the back cover is embedded, the depth of groove should be noted and controlled. The best depth is that the protruded part of the front cover can keep closed to the surface of iron door or wall. Try the best to avoid the big gap between the front cover and iron door or wall by all means after the door station is installed.
- ③ Embedded installation method, install the door station on the side that usually keeps close.
- ④ Do not install the door station on the positions where are humidity, high temperature, available to drench with rain, close to the strong causticize, or mass dust.
- ⑤ Installation height: depends on the average stature of the local people.