

I. Summarization

1.Introduction

This elevator control device is specially designed based on the lock management system, it supports the key card issued from the lock management software and reach to the specific floor under the management mode. This improved much for the security of hotel management.

Reader

Elevator Control Board



2.Characteristics:

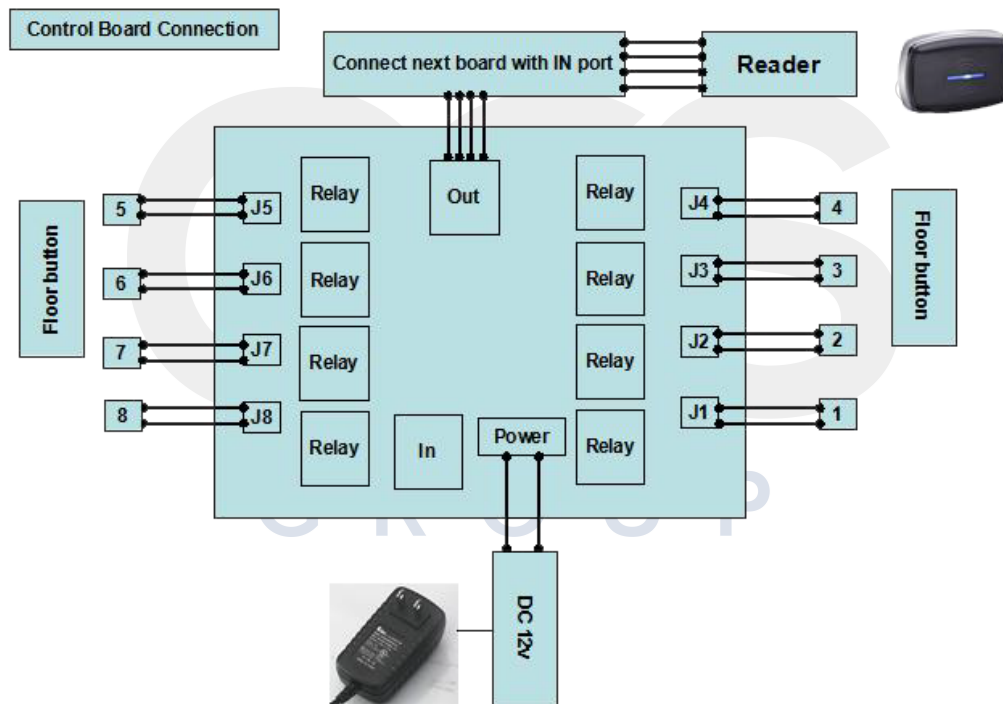
- Support Mifare card(NXP Philip chip S50 card)
- Reading distance: 3-5CM.
- No need extra software, it support the keycard issued from the lock management software.
- Standard controller: 8 floors, support bridge connection.
- Support three working mode: Free mode, Floor Mode, Floor+Time mode.
- Support specific floor function.
- Support public floor, valid under limited time range.
- Support audit trail function: 990 records at maximum.
- Support exchange for the elevator control with the elevator itself, when there is power failure, the elevator control will not work and the guest can press free floor button to reach any floor.

3. Technical Parameters

Power supply	12V DC
Working current	1000mA
Card Type	Mifare card(13.56MHZ)
Reading distance	3~5cm
Input	No
Reader Size	92x63x21.60mm
Output	8 groups always closed contact (Standard mode)
Environment	Working Temperature: -10~70 degree Working Humidity: 5-95%

II: Connection Diagram

Connection for the control board, find below picture:

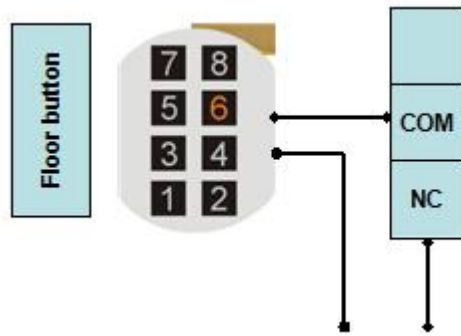


Notice:

- Please connect the elevator controller with the reader with the 4p cable.
- If the floor quantity is over 8, you can connect two control board with 4p cable like above.
(From **OUT** connector in first board to **IN** connector in second board)
- Power supply is 12vDC, you just need to connect with one of the control board, the other board will use the same power supply. It is no need to connect another power supply anymore.

1. Application

1.1 Normal Mode



Under the normal mode, you can connect the **COM** and **NC** port with one of the floor button cable. The **COM** and **NC** port are under non-contact state, so when you press the floor button, there is no response and you can not press the button to reach the floor. But when you touch one valid card, the **COM** and **NC** port will be under contact state, you can press the floor button to right floor.

2. Working Method

2.1 Working Mode Setting

For this mode, there is permission limited under different mode. usually there are three mode: **Free mode. Floor mode, Floor+Time mode.**

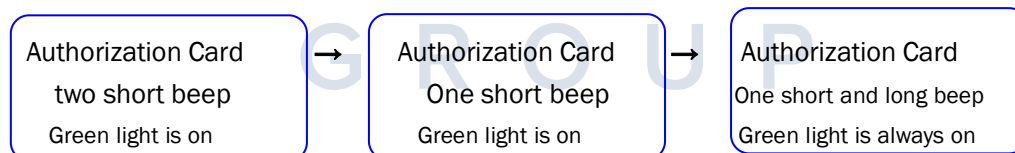
2.1.1 Free mode: All floor buttons are free to press, you can press any floor without any limit.

Setting step:

Under factory state, touch Authorization card to the reader three times:

Then all the floor button light will turn on and there is no any limit for the floor.

Usually this is under special condition use such as fire alarm.

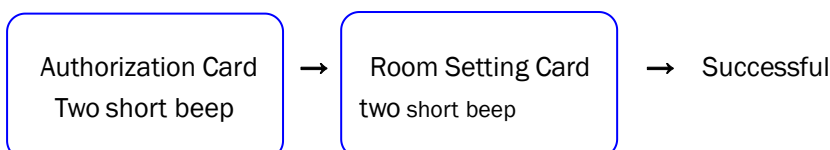


2.1.2 Floor Mode

For this mode, the controller only check the floor that the key belong to, when you touch the card to the reader, you can **ONLY** press the floor button and reach to the right floor that the card belongs to.

For example: for guest card 302(belong 3rd Floor), when you touch this card on the reader, you can only press the floor button 3 and the floor button light will turn on, when you press other floor, there is no any response.

Setting step:



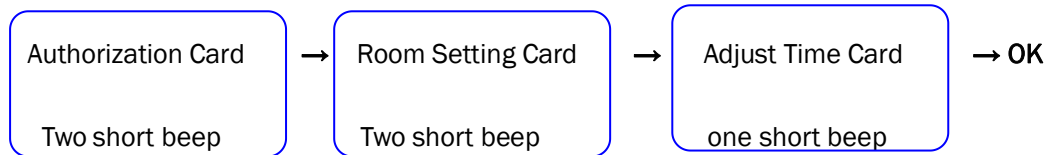
Notice:

When you touch the Room Setting Card(For example: if you choose the room for 5th floor), then the first relay **J1** in the control board will be set as for floor 5 and the other relay will set as 6. 7. 8. 9... in sequence. So usually we suggest touching the Room Setting Card with the room number for first floor.

2.1.2 Floor+Time Mode

When you touch the Card on the reader, the controller will check the floor validity and the valid time, if both are right, you can touch the card on the reader and pres the right floor button.

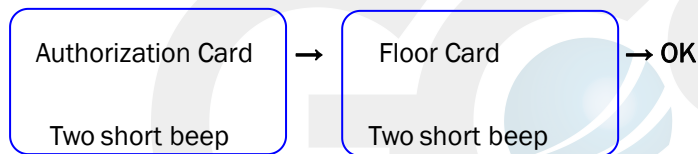
Setting step:



2.2 Public Floor Setting

Function: After you set the controller with this function, the floor that the floor card belong to will be set as public floor(5 floors at maximum), during the valid time and time range in the floor card will be set as the time range of public floor.

Setting step:



Building	Crystal Hotel	
Valid Floor (5 pcs at most)	☒ 001 ☒ 004 ☒ 002 ☒ 005 ☒ 003	
Valid Time	6/19/2013	
Time Range 1	00:0	to 23:59
Time Range 2	00:0	to 00:0
Time Range 3	00:0	to 00:0
Card User	0 - Admin	
☐ Passage Mode ☐ Can open deadlock ☐ Cancel Old Card		

Notice:

The sound tip:

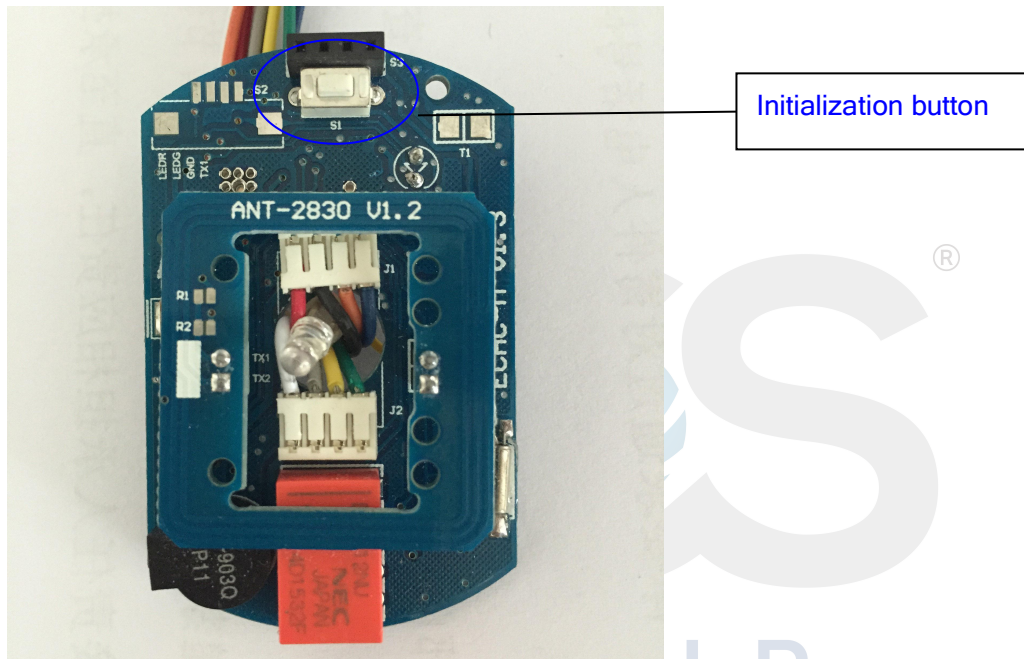
When it is under factory state, when you touch the Authorization card, there are two short beep, but if the elevator controller is under one mode already, when you touch the Authorization card to the reader, there is only one short beep (that means there is Authorization information inside already).

2.3 Initialization

You can press the initialization button for **8** seconds to set the controller as factory state.

Find the button on the back of the elevator reader as below picture:

Press the button for 8 seconds, there is one short and then one long beep and the green light will be always on. Then the elevator controller will be set as factory state(any one can press the floor button to reach any floor).



2.4 Unlock Record

You can use the S70 Data Card or the LCD handset to read the records from the elevator controller reader, it is with same operation like hotel locks, please refer the operation of lock management software manual. Thanks

Rough steps:

1. Issue one "Data Card" with S70 card in the software.
2. Touch the "Data Card" to the elevator reader, there is one beep and green light will flash, after reading is finished, there is one short and one long sound for tip.
3. Put the S70 Data Card on the reader, click "Unlock Record" in the "Special Card", click "Query" in the window and there are records for the different cards.

Query Report

Staying Guest Query
Guest Query
Special Card Record
Multi-door Card Record
Card State
Unlock Record

Unlock Record

Query Export Print

Room: 8102 Building: 1 Lock No.: 1.1.8102

	Serial No.	Card No.	Unlock Way	Unlock Time	Card User
1	1	16B903BB	Floor Card	6/17/2013 2:02:00 PM	
2	2	16B903BB	Master Card	6/17/2013 2:02:00 PM	
3	3	16B903BB	Guest Card	6/17/2013 2:01:00 PM	
4	4	16B903BB	Guest Card	6/17/2013 2:01:00 PM	
5	5	16B903BB	Guest Card	6/17/2013 10:53:00 AM	
6	6	16B903BB	Guest Card	6/17/2013 10:53:00 AM	
7	7	16B903BB	Guest Card	6/17/2013 10:46:00 AM	
8	8	6690FCBA	Guest Card	6/15/2013 4:25:00 PM	
9	9	8B96DBF8	Guest Card	6/15/2013 4:24:00 PM	
10	10	F2566581	Master Card	6/15/2013 2:23:00 PM	
11	11	F2566581	Master Card	6/15/2013 2:17:00 PM	
12	12	F2566581	Master Card	6/15/2013 2:17:00 PM	
13	13	F2566581	Master Card	6/15/2013 2:16:00 PM	
14	14	948FAFC8	Guest Card	6/7/2013 9:56:00 AM	
15	15	948FAFC8	Guest Card	6/7/2013 9:56:00 AM	
16	16	948FAFC8	Guest Card	6/7/2013 9:55:00 AM	
17	17	948FAFC8	Guest Card	6/7/2013 9:55:00 AM	
18	18	92026481	Master Card	6/1/2013 4:07:00 PM	
19	19	92026481	Master Card	6/1/2013 3:50:00 PM	
20	20	92026481	Master Card	6/1/2013 3:49:00 PM	

