Contact-less Lift Control Solution

User Manual

*Please read this user manual carefully before use and keep it properly

1. Overview

Now global CONVID-19 virus situation becomes more and more serious, lots of countries lock down to avoid the infection rate. We believe that the post-epidemic prevention work still has a long way to go even after effective control. People will pay more attention on the public safety. Lift button are frequently touched by different people. That will cause the high risk of infection. LLKM launch the solution for contact-less lift control.

- Application scenarios: lift/elevator hall call and lift/elevator car
- Device installation: External adhesive installation. Installation position and installation method are optional
- How to use: No need touch lift button. What you need is using you finger point to the corresponding button. Corresponding button will be brighten, avoid the risk of cross infection

Product Parameter:

Contact-less lift solution (Car inside)
Parameter

Elevator control board	Basic function	●Support 485 slave communication ●Support 12V power supply ●Support relay output ●Support power indicator light
Hardware function (car master board)	Basic function	●Master control board support 12-24V power supply ●Support relay output ●Support 485 communication connect 3.0 infrared transceivers ●Support 1CH 485 connect elevator control ●Support buzzer ●Support power indicator light and configuration
Hardware function (Infrared transceivers)	Basic function	●Deputy board support 5V power supply ●Sensor sensing distance:1cm
Appearance size	●Car master control board: 124*88*29mm ●Elevator control board： 148*102*50mm ●Infrared transceivers: 300.5*30.5*19mm	

Product category：

Car infrared transceivers

Elevator control board

Car master control board

Infrared transceivers

2. Device testing and installation

2.1. Device testing

After receiving device, please check the device quantity and check whether damage or not. Ensure power normal, positive and negative, then power on and test

Testing:

a. Open “infrared transceivers”packing, connect to the car master control board, and keep the blue side is up
b. Using the standard equipped power adapter, about 3S can power on
c. Enter device WEB configure page
d. “Floor button test”: After starting normally, use your finger to test. The distance is about 1cm. When you point to the floor button, the corresponding "floor button" will flash white light, the corresponding "16CH controller" terminal has relay action. You can use a multimeter to measure (on and off), the corresponding ports "NO and GND" are closed

2.2. Description of elevator control board installation

Description of elevator control board installation in COP

a. As per the majority lift on-site reality situation, elevator control board will be installed in the COP

b. Find an appropriate position on the COP. Tear off the 3M stickers on the bottom of the elevator control board, then paste it to the COP. Please ensure that the circuit board and metal parts are isolated after installation

c. Connect elevator control board power and other communication cables. Elevator control board installation done

Description of elevator control board installation in car roof:

a. If there is no room in the car, can find an appropriate position in the car roof

b. Tear off the 3M stickers on the bottom of the elevator control board, then paste it to the car roof and fix by ribbon. Please ensure that the circuit board and metal parts are isolated after installation.

c. Connect elevator control board power and other communication cables. Elevator control board installation done.

Cable connection of Infrared transceivers:

Cable connection between infrared transceivers and master control board

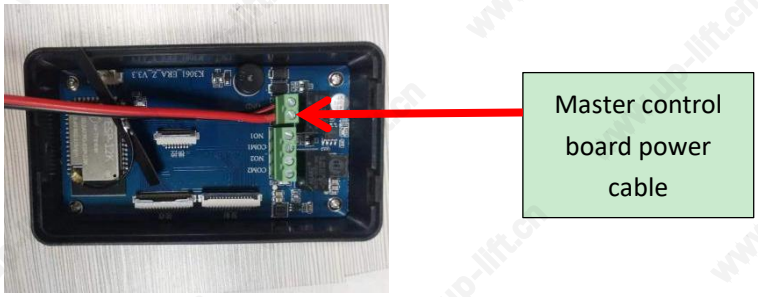
Infrared transceivers communication cable------Master control board(Send)

Cable connection between infrared transceivers and master control board

Infrared transceivers communication cable------Master control board(Receive)

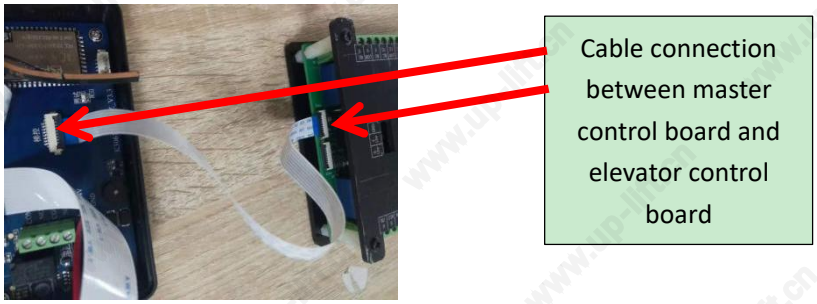
Master control board power cable connection

Master control board(12V+ GND) ------ Power(12V+ power positive, GND power negative)



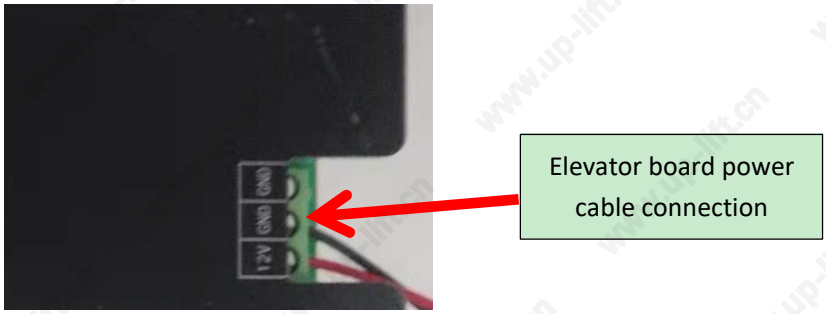
Cable connection between master control board and elevator control board:

Master control board(elevator control) ------ Elevator control board(PLC1)



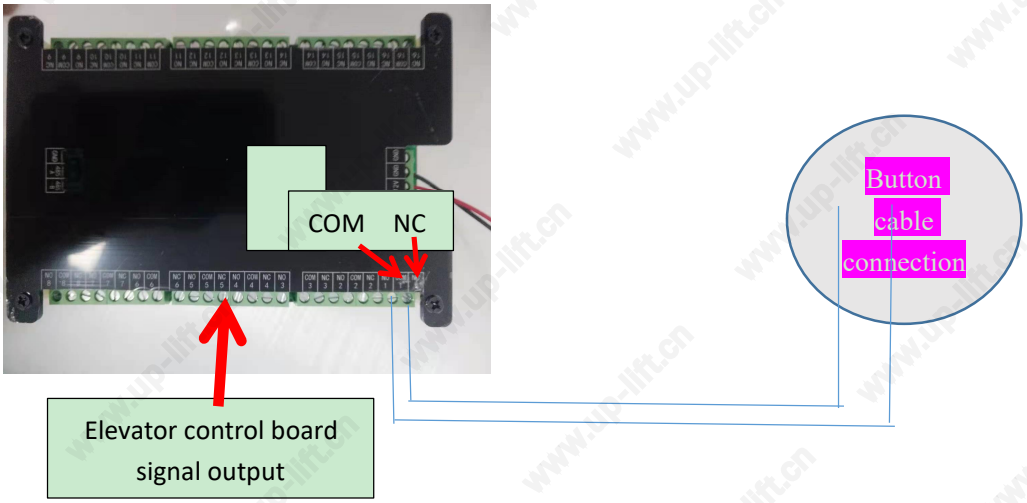
Elevator board power cable connection

Elevator control board(12V+ GND) ------ Power(12V+ power positive, GND power negative)



Cable connection between elevator control board and button

Elevator control board signal output NC and COM------Button signal cable



Other buttons like “up” and “down” is the same cable connection mode

3. Warning:

- The power supply voltage should meet the requirements. Before powering on, confirm the voltage is DC12V～DC24V
- Equipment components shall be well insulated between with lift and ground
- Equipment usage environment should meet the requirements and have good heat dissipation space
- Please power off when plugging or unplugging the connector
- When install infrared transceivers, please do not fold the flat cable 180° and extruding device
- When infrared transceivers connect with master control board, keep the blue side of the flat cable is up
- When use patch cord, the rest two cables must be insulated
- When install master control board in the COP, please do not remove the housing to avoid the electrostatic interference