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E-TOP UDE07XX Elevator Control System User Manual

Contents

E-TOP UDE07XX Elevator Control System

Revision History

Revision	Initiator	Revision Description	Reviewed by	Approved by	Issue Date
V0.1.1	Fish Yu	Initial version	Eileen Zhou Johny Wu	John Gu	2022-05-13
V0.2.1	Alex Qin	Added FCC Warning Information	Eileen Zhou Johny Wu	John Gu	2022-07-15
		Deleted Footer of			
		"Excelland			
			Eileen Zhou		
V0.3.1	Alex Qin	Confidential, Do Not	Johny Wu	John Gu	2022-07-28
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Introduction of Elevator Control System

The elevator control system consists of five parts: the main control box of the elevator control system, floor counting device of the elevator control system, floor calibration device of elevator control system, wireless transmitting and receiving device, and key expansion device.

Control System of Elevator Taken by Robot

Mainly including a robot, Cloud network management system, and intelligent elevator IoT module Cloud network management system: It is mainly responsible for remote management of each module. The robot and elevator IoT module should be connected to the cloud network management system for data interaction. In addition to the maintenance of its own operating logic, it receives the status data reported by each module and issues the corresponding control instructions according to the requirements. Robot: As the main body to take the elevator, it shall determine whether to take the elevator according to business requirements. In the process of taking the elevator, it interacts with the cloud network management system and the elevator IoT module to complete the operations of calling the elevator and entering and leaving the elevator.Intelligent elevator IoT module: It communicates with the cloud network management system, Lora module and robot through It is mainly responsible for calling elevator, floor detection, opening and closing the door. When the robot takes the elevator, the intelligent module interacts with the robot and the cloud network management system, reports the elevator status in real-time, and coordinates the robot to complete the elevator- riding process.

Main Control Box of Elevator Control System

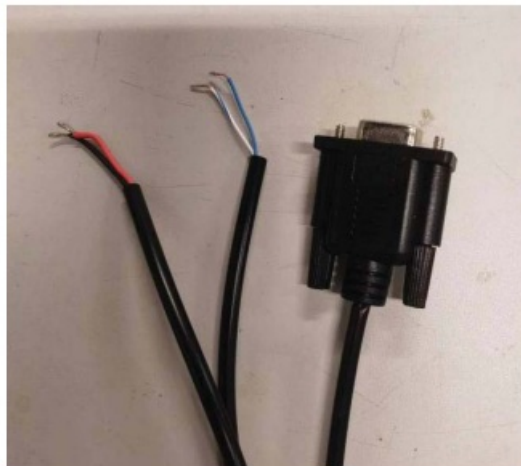The main control box contains two important units:

1. Main control board of elevator control system; 2. Wireless module
2. RS485_2 interface: This interface is connected to Interface RFID RS485.
3. 24V power supply interface: Connected to a 24V adapter.
4. Keyboard extension interface: Connected to the keyboard installed in the cage operation panel through the main control board and keyboard connection line.
5. Hall interface: Connected to Hall sensor
6. Photoelectric interface: Connected to photoelectric switch

Floor Counting Device of Elevator Control System

RFID Module

RFID installation instructions: RFID supplies power through red line VCC and black line GND, and communicates through blue line 485a and white line 485b
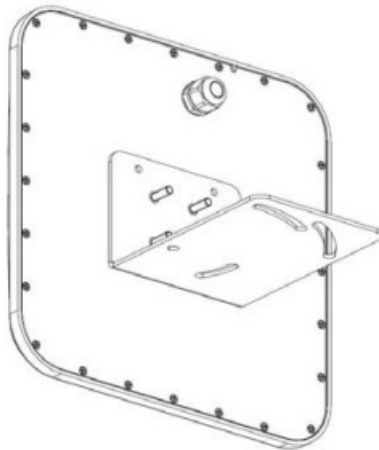

Installation Description of RFID

In order to ensure normal and stable operation of the equipment and your personal and property safety, please carefully read the following notes before installing RFID integrated reader:

1. Please disconnect the power supply before wiring and do not operate with electricity
2. First check whether the outlet is connected to the ground, and check if the local power supply voltage meet reader voltage requirements;
3. Check if the device is connected tightly;

4. Pay attention to the network cable and serial cable type selection and length restrictions;
   - erial port cable length 5m maximum.
   - S485 length 80m maximum.
   - thernet length 80m maximum.
5. When installing multiple readers, the antenna position and the antenna spacing should be appropriate to avoid interference with each other.
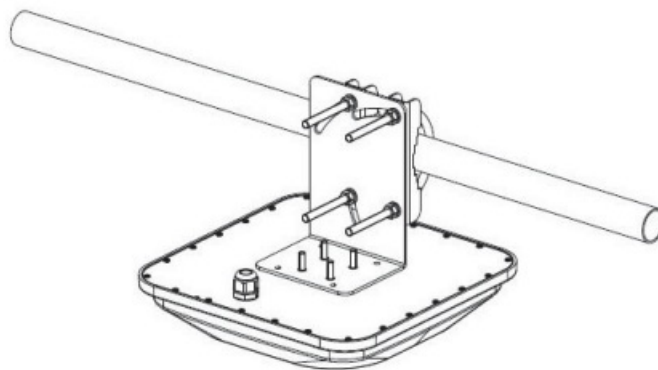6. Please test & ensure the reader can work normally before using it

Horizontal Pole Installation

1. Align the L-shaped mounting bracket against the screw poles on the bottom of the reader housing, then install the rubber and screw the M6 nuts, refer to Figure 3-1.
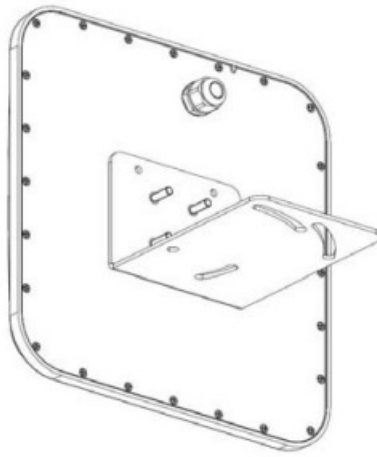

2. Using two U-bolts and two toothed installation bracket to fix the reader on vertical rod through the L-bracket, refer to Figure 3-2

Note: This installation method is suitable for cross bars with a diameter of 30mm 50mm
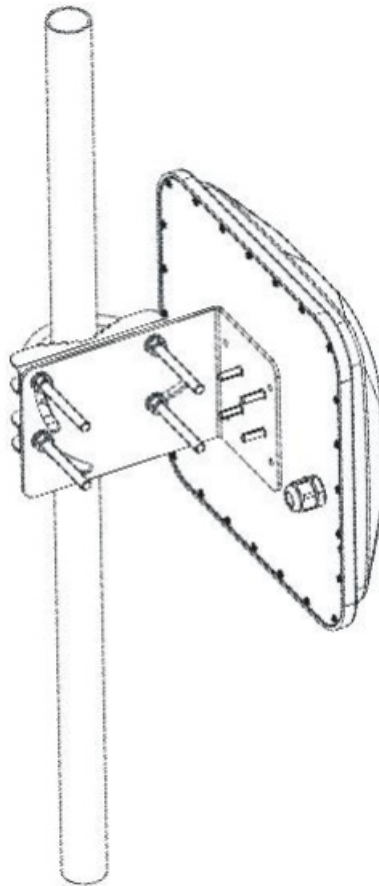

Vertical Pole Installation

1. Align the L-shaped mounting bracket against the screw poles on the bottom of the reader housing, then install the rubber and screw the M6 nuts, refer to Figure 3-3:

2. Using two U-bolts and two toothed installation brackets to fix the reader on a vertical rod through the L-bracket, refer to Figures 3-4.

Floor Calibration Device of Elevator Control System

1. Hall Sensor

Hall Sensor

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance 20cm between the radiator & your body.

FCC Warning

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and

2. this device must accept any interference received, including interference that may cause undesired operation.

NOTE 1: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if notinstalled and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in
a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Documents / Resources

Elevator Control System
User Manual

Document No:APM000238V0.3.1

Product Model	UDE07XX
Subsystem name and model	
Module name	

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UDE07XX, 2A7P8-UDE07XX, 2A7P8UDE07XX, Elevator Control System, UDE07XX Elevator Control System, Elevator Control