

CB-01 CONTROL BOX USER'S MANUAL

Please read carefully before installation and application.

GENERAL

The control box carry out electrically opening, closing gates vertically. We adopt the technology of monolithic microprocessor to control the electric lock, opening gates and closing gates sequentially.



MAIN TECHNICAL PARAMETERS:

input power: AC110V \pm 10% 60Hz
 environment temperature: -10 $^{\circ}$ C~40 $^{\circ}$ C
 loaded on gate operators: AC 110V 3.4A
 The continuous duration of opening, closing gates may be adjustable. The duration of closing gate is more than opening gate(1s--2s). The working voltage of the relay is DC 12V. The working voltage of monolithic microprocessor is DC 5V.

INSTALLING, WIRING, ADJUSTING

1. At first, open the box and check the components, should be rejuvenated if there is the condition of disengagement and fall. It mustn't be energized before it is rejuvenated.
2. Fix the plastic box to the wall with expansive screws, possibly protect it is wet by rain and is shone straight by the sun.
3. Connect the wires of the control box, main machine and electric lock. Note: The machine must be grounded.

Note: When N1 connects with N2, the force is 60%.
 When N1 connects with N3, the force is 80%.

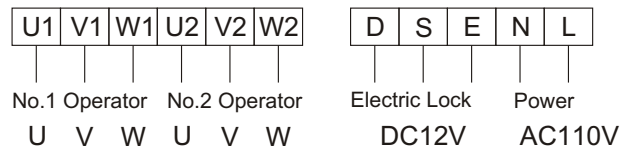


The remote control device is adopted single- road normally- opened contact.

Note: The electric lock must be fixed on the gate of No. 1 operator.

4. Measure the resistor of U1、 V1 and W1, and the resistor should be 35 Ω the resistor of U2、 V2 and W2 should be 35 Ω , too. The resistor of 13 and S should be 4 Ω .

5. Move the gate in the middle and test it. During opening the gate, press the button of the remote control. V3、 V5 shining is opening action, V6、 V4 shining is closing action and pull out the electric lock, No.1 gate is opening after 1 second and then No. 2 gate is opening in other three seconds. Change V1 and W1 if the direction of No. 1 gate is wrong, change V2 and W2 if the direction of No. 2 gate.



6. Close the gates then press the button of the remote control. After the gate arrives at the correct position, the duration of the intercept turning is less than 1s, and then the motor is cut off power. If the duration of the motor intercept turning is too long, adjust VR1 counterclockwise. If the gate cannot arrive at the correct position, adjust VR1 clockwise until the duration of intercept turning meets the requirement and the gate can arrive the correct position.

OPERATING

4. Adding extra remote controls(Learn):

- Press the button 'LEARN' on the control board, LED indicator light will turn on.
- Press the remote control button which you want to use, LED indicator light will turn off.
- Press the same remote control button again, the 'LED' will continuously flash about 5 seconds at 1/2Hz frequency, wait until the 'LED' stops flashing. Then the learning process is finished. If fails to set, the 'LED' will turn off after lighting 1 second, you should reset as above steps.
- If you want to program the other buttons, you should repeat the process as above.
- Up to 25 remote controls may be used.

2. Erase remote controls: To erase existing remote controls press and hold the "LEARN" button, do not release untile the 'LED' turns off.

3. Remote control: single- button mode, with each press of the butt

TROUBLES. CAUSES AND SOLUTIONS:

Trouble	Possible causes	Solutions
The gate indicator light doesn't shine	The failure of the power circuit	Check the input power, fuse, transformer, the bridge rectifier
When press the opening button, the control box is in action but the gate does not work.	The electric lock is stuck.	Press the closing button. When the gate arrives the position, press the opening button again.

