

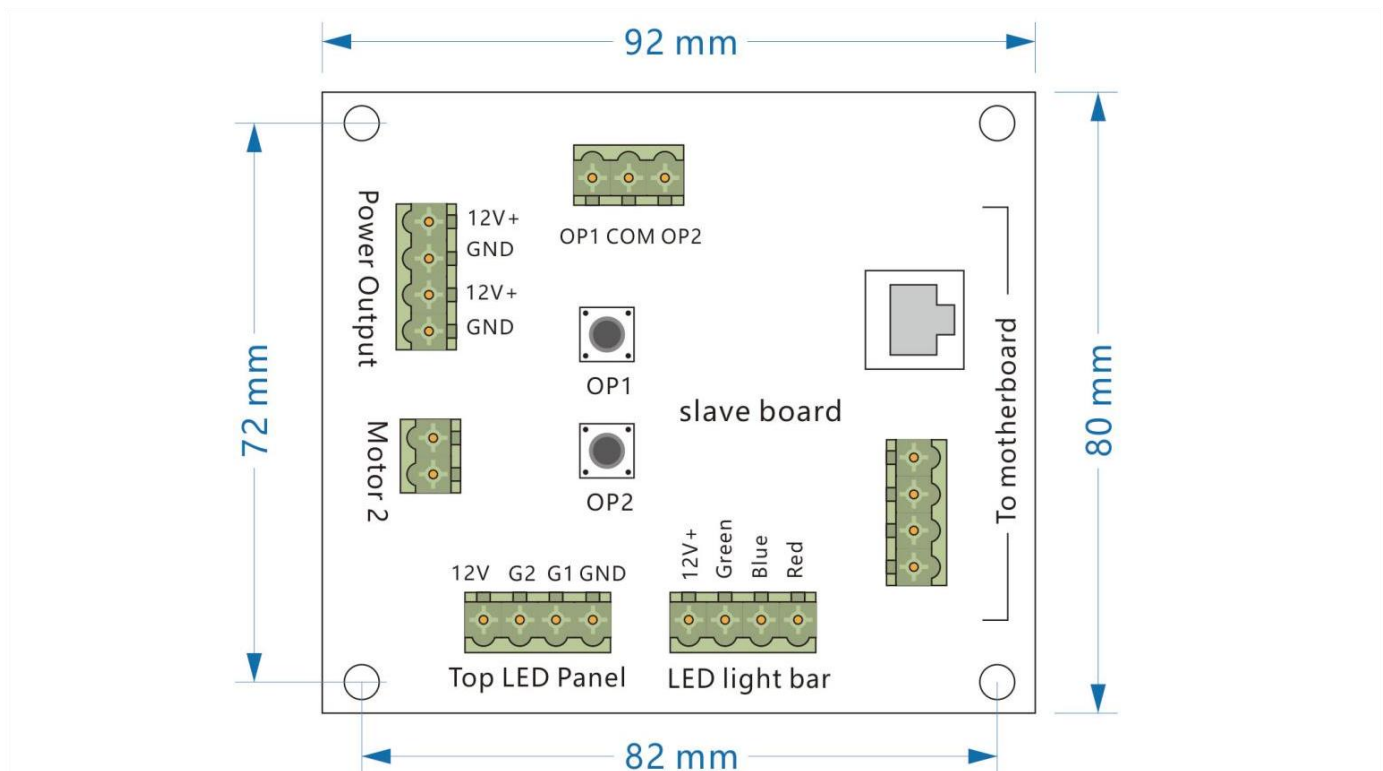
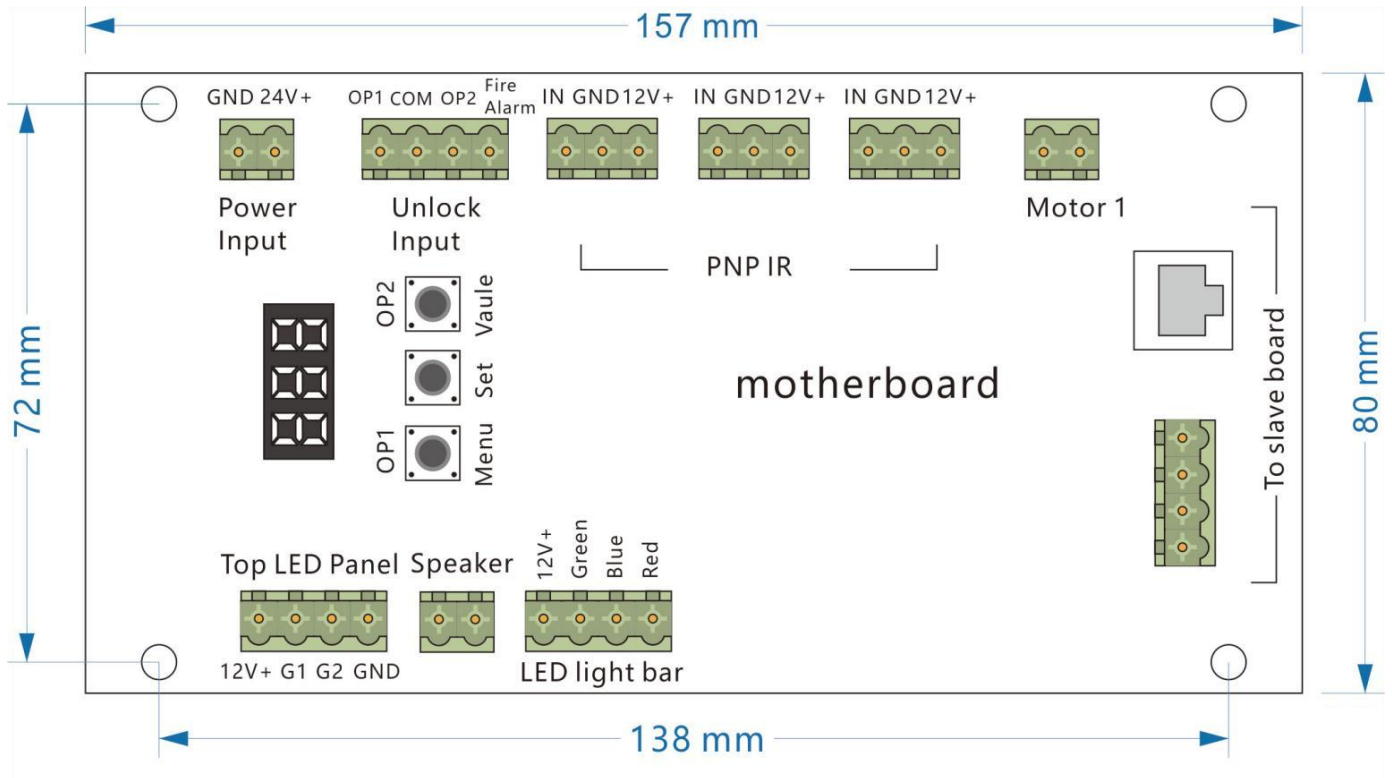
Flap Barrier

(TYH01)

Manual



Wiring Diagram of Control Panel



In one channel, there are wires need to be connected between mother board to slave board.

One Ethernet cable and one 4-core cable.

Access control system relay output (COM and NO) can be connected OP1/OP2 and COM on both mother board or slave board.

Parameter Setting

1. Press the SET value (the one in the middle) until the LED flash, enter the parameter setting.
2. The first number is the setting item, the third one is the value. Press the left button to change the setting item. Press the right button to change the value.
3. Long press the SET button for 2 seconds, the LED stop keeps flashing, then the value is saved successfully.

Menu	Function	Range	Default	Parameter Function Description
1 - X	Working Mode	1~4	1	1:Left and right both controlled by access device. 2:Free passing on Left side; right side controlled by access device. 3:Free passing on right side; left side controlled by access device. 4:Free passing on both sides
2 - X	Open Duration	1~9	4	Open Duration = Value x 2 seconds
3 - X	Opening Voice on Left Side	0~9	0	0: Thank you; 1: Come in, please; 2: Goodbye; 3: Welcome; 4: See you; 5: Have a nice day; 6: Have a nice trip; 7: Please wear safety helmet
4 - X	Opening Voice on Right Side	0~7	3	
5 - X	Voice Volume	1~9	1	Bigger the value, higher the volume
6 - X	Master Motor Speed	1~9	4	Bigger the value, faster the speed
7 - X	Slave Motor Speed	1~9	5	
8 - X	Debugging Mode	0~2	0	1:Auto testing mode. 2: Reset motor spec.
9 - X	Memory Function	0~1	0	0: Disable 1: Enable
C - X	Flap Close Mode	0~5	1	0: Flaps will close when trigger the third IR sensor; 1: Flaps will close after the third IR sensor detects passing; 2~5: Auto-closing function: After passing the third IR sensor , flaps will auto-close after n-1 second.
H - X	Language	0~1	0	0: Chinese; 1: English
P - X	False Direction Entry	0~2	0	0: IR sensor detects reversing passing, this access is invalid, flap will remain close; 1: IR sensor detects reversing passing, and after IR sensor detects nothing, flap will open; 2: Reversing passing triggers the alarm and flap closes, the flap will run normal after all clear.
E - X	IR Sensor Mode	0~1	0	0: 3 pairs IR sensor; 1: No IR sensor, depending on anti-clamping function from the main board.
F - X	Auto Fix Infrared Issue	0~1	1	0: Disabled; 1: Enabled
L - X	Anti-clap Sensitivity	1~9	5	The system will self detect the proper sensitivity, only need adjustment when anti-clap function does not work well.

Trouble Shooting and Solution

Error Code and Voice Prompt	Malfunction Description	Solution
E01 “Do not stay in the channel”	Anti-clap IR sensor detects obstacle	Do not stay in the Channel when power on self-test, or check if the IR sensor works well
E02 “System error, please check”	Motor was detected abnormality	The motor wire was wrongly connected or bad wire connection
E - -	Fault on Left IR Sensor	IR Sensor error, please check the sensor accordingly
- E -	Fault on Anti-clap IR sensor	
- - E	Fault on Right IR Sensor	
Flaps don’t stop in the limit position when open or close	The system does not find the limit position data	1. Re-power-on for self test, and open and close the flaps many times for adjustment; 2. Adjust the proper motor speed by manual setting; 3. Check if the motor was damaged or if the motor worm and motor gear lubrication was good.
Flaps pause during running	High anti-clap sensitivity	To lower the IR sensor sensitivity by manual setting “L- - ”
Anti-clap function does not work or not work properly	Low anti-clap sensitivity	To increase the IR sensor sensitivity by manual setting “L- - ”

IR sensor fault adaptive function

According to industry statistical feedback, most of the after-sales problems of the flap barrier is caused by IR sensor faults, and the traditional flap barrier control logic cannot pass through the channel in the case of any set of IR sensor faults. Maintenance costs are high. In order to solve this problem, our control board has added an IR sensor fault adaptive function. When a certain group of IR sensor signals continues to output signals for more than 60 seconds, the system will determine that this group of IR sensor faults, and then automatically adopt corresponding strategies to maximize the Ensure the normal passage of the flap barrier.