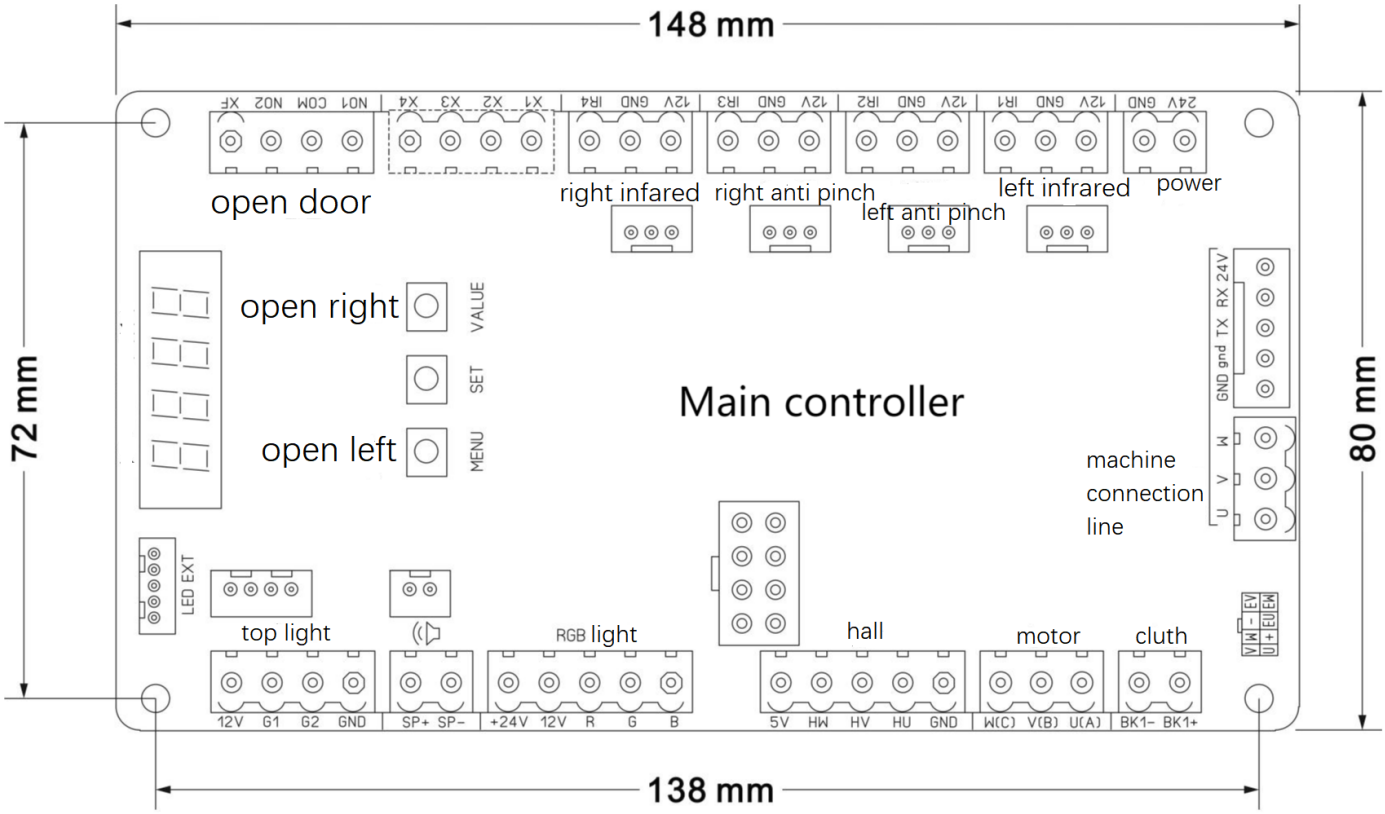
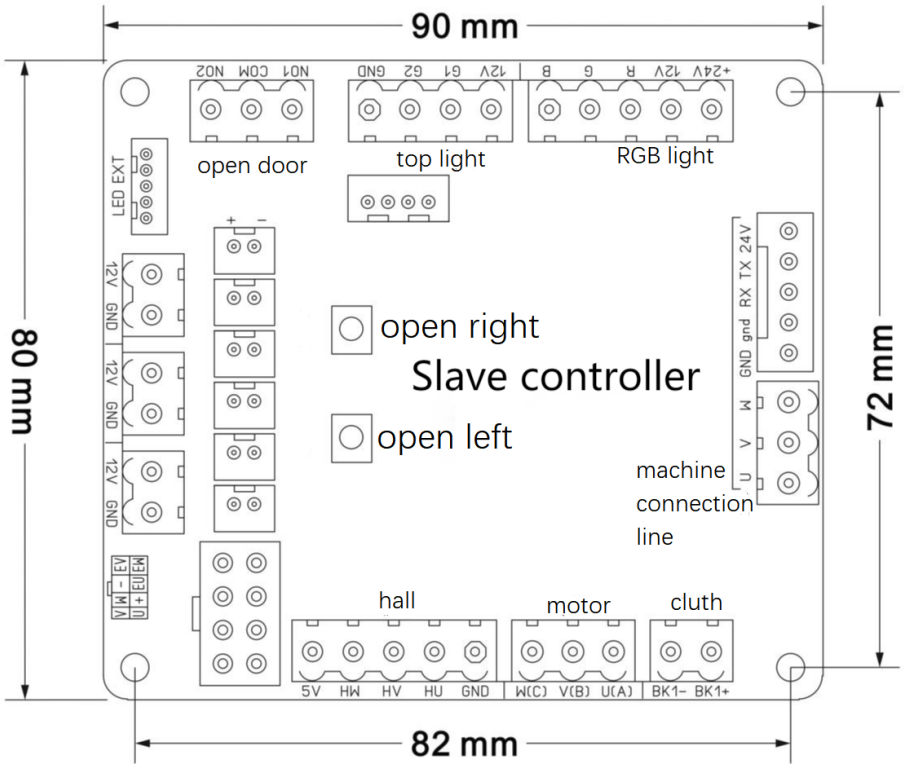
Brushless controller manual book





Adjustment method of door panel in place under swing turnstile /supermarket swing turnstile mode

1. Press SET (middle button) 5 times continuously, the system prompts "Please manually adjust the door position" and enters the door (door panel) adjustment mode.

2. Push the door panel to the target position and then stop, keep it still for 3 seconds, the voice prompt "beep" or the corresponding light flashes once, indicating that the current position has been sampled.

*The system will automatically judge the current sampling position as left-to-position, right-to-position or zero position according to the position of the door.

3. Finally, push the door panel back to the middle alignment and keep it still for about 10 seconds. The system will prompt "Setting is complete, welcome to use" and exit the adjustment mode.

*In most cases, the system will automatically obtain the appropriate left and right positions. The user only needs to adjust the zero position, align the wing doors and wait for the system to automatically exit.

Adjustment method of door panel in place under flap turnstile mode

1. Press SET (middle button) 5 times continuously, the system prompts "Please manually adjust the wing door position" and enters the wing doo r (door panel) adjustment mode.

2. The "left open" and "right open" of the main board can control the reciprocating movement of the main motor, and the "left open" and "right open" of the slave board can control the reciprocating movement of the slave moto r, and the flap door can be controlled to move to the target position through the button Stop and keep still for 3 seconds, the voice prompt "beep" or the corresponding light flashes once, indicating that the current position has been sampled.

*The system will automatically judge the current sampling position as left-to-right or right-to-position according to the position of the wing door.

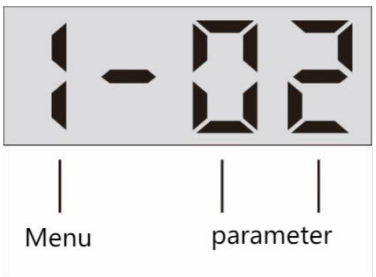
3. Press and hold the middle button for more than 2 seconds and release it, the program will exit the adjustment mode.

parameter settings

1. Long press SET (middle button) until the digital tube flashes to enter the parameter setting.

2. The first and second digits of the digital tube display the menu, the third and fourth digits display the value, the left button is used to set the menu, and the right button is used to set the value.

3. Press and hold for about 2 seconds, the digital tube stops flashing, and the menu value is saved successfully.



As shown in the figure above, it means that the current menu is "open gate mode", parameter 02 means "left infrared free passage"

menu	function	Value range	Defaults	Parameter function description
0	machine code	1~99	1	485 communication machine number
1	Opening method	1~4	1	1: Standard mode. 2: The left infrared is free to pass. 3: The right infrared is free to pass. 4: Free passage of left and right infrared. *When adjusting, the ceiling light board will change accordingly, and the direction of infrared free passage can refer to the direction of the arrow

2	Open door waiting pass time	1~20	6	Time unit: second
3	Left open door voice	0~9	0	0 thank you; 1 please come in; 2 goodbye; 3 welcome; 4 welcome next time; 5 Safe voyage; 6 I wish you a pleasant journey; 7 Please wear a safety helmet; 8 Verification is successful; 9 Mute; 10 Welcome home; 11 Welcome to school; 12 Go home and be safe; 13 Welcome to kindergarten; 14 Goodbye, children. *For the traffic direction corresponding to the voice, please refer to the direction of the arrow on the ceiling light board
4	right open door voice	0~9	3	
5	voice volume	1~9	5	The larger the value, the louder the volume.
6	Main motor speed	1~25	13	*When the combined gear ratio of the motor and movement is too low, too fast speed may cause speed overload, which needs to be adjusted according to the actual situation.
7	Slave motor speed	1~25	13	
8	debug mode	0~2	0	1: Automatic aging mode. (Long press the middle button or power off and restart to release the automatic aging mode) 2: Restore factory settings. (need to restart to take effect)
9	Deceleration zone	1~30	10	The larger the value, the larger the deceleration range, and the longer the deceleration sliding distance The wing door is not fast enough to stop when it is in place, and the wing door is obviously crawling at a slow speed. Consider reducing the parameters; On the contrary, the stop of the wing door is too sudden and accompanied by obvious vibration, consider increasing the parameter.
10	Self-test running speed	1~9	3	The larger the value, the faster the self -testing speed.
11	pass model	0~2	0	0: smooth pass mode, delay 1.5 seconds to close the door when a battery car is detected 1: Open the memory function, n people swipe the card and n people pass 2: One person one card mode, no battery car detection function
12	close door control	0~9	1	0: Pedestrians trigger to the last group of infrared gates close door . 1: Pedestrians pass through the last group of infrared close door . 2~9: Delay (n -1 seconds) close door after the last group of infrared
13	single motor mo de	0~1	0	0: Dual motor mode (folio) 1: Single motor mode (single door)
14	language selection	0~1	0	1: English voice
15	Encountered resistance, infrared anti-pinch rebound	0~1	1	0: No rebound when encountering obstacles 1: Rebound when encountering obstacles
16	Mechanical anti -pinch	1~9	5	The larger the value, the higher the sensitivity

	sensitivity			
17	reverse pass handling	0~1	1	0: reverse pass trigger does not close door , only voice alarm 1: reverse pass triggers close door , this pass is invalid, and the door will no longer open
18	turnstile type	0~3	0	0: Standard swing turnstile (large swing turnstile , small swing turnstile , speed gate) 1: Cylindrical swing turnstile (supermarket swing turnstile) 2: flap turnstile , 3: swing turnstile One-way opening mode
19	Power-off opening direction	0~2	2	0: Open the gate in the direction of left pass after power failure. 1: Open the gate in the right pass direction after power failure. 2: The system automatically selects the power -off and opening direction according to the current situation. *The opening direction can refer to the direction indicated by the arrow on the ceiling light board.
20	Strength of motor resistance	1~9	5	The larger the value, the greater the strength. Excessive force may cause the power to restart, 6.25A power supply is recommended to use the default value
21	break into voice	0~1	1	0: There is no voice prompt when an illegal break -in event occurs. 1: There will be relevant voice prompts when an illegal break-in event occurs.
22	Left and right infrared effective signal delay	1~9	5	Time = parameter * 20ms (default 100ms)
23	Motor running direction	1~4	1	1: Master rotates forward, slave rotates reversely; 2: Master rotates reversely, slave rotates forward; 3: Master rotates forward, slave rotates forward; 4: Master reverses, slave reverses;
24	Clutch constant lock function	0~1	0	0: off, 1: on
25	Motor hall type	0~2	0	0: Automatic detection, 1: Positive 120 degree Hall phase, 2: Negative 120 degree Hall phase
26	Input Signal Filtering	1~9	3	Value*10ms (default 30ms)
27	Infrared anti -pinch for opening stroke	0~1	0	0: Infrared anti -pinch is invalid during the door opening process, 1: Infrared anti -pinch is effective during the door opening process,
28	Anti tailgating alarm	0~2	0	0: off; 1: trailing voice alarm, do not close door ; 2: trailing voice alarm and close door
29	Zero deviation alarm threshold	0~9	2	The larger the value, the greater the allowable deviation of the door panel
30	Anti-pinch infrared free pass switch	0~1	1	0: In the free passage mode, the anti -pinch infrared does not trigger the door opening; 1: In the free passage mode, the anti -pinch infrared triggers the door to open, which is convenient for fast passage
31	Free pass memory functio n switch	0~1	1	0: There is no memory function in the free pass mode, and only one person can pass through the infrared trigger

				multiple times; 1: Open the memory function in the free pass mode, n times trigger pass infrared can pass n people
32	Main motor slip compensation	0~9	0	When the door cannot return to the zero position immediately after the self -test is completed, the sliding compensation can be appropriately increased. Excessive compensation may cause the door panel to vibrate when it stops, pleas e adjust this parameter when the door panel moves smoothly.
33	Salve motor slip compensation	0~9	0	

Troubleshooting and troubleshooting

Nixie tube prompt	Fault	Cause and Solution
E010	Main motor not detected	The Hall wire or the motor wire is connected incorrectly, and the Hall fault of the motor
E020	Slave motor not detected	The Hall wire or the motor wire is connected incorrectly, and the Hall fault of the motor
E030	Master and slave motors not detected	The Hall wire or the motor wire is co nnected incorrectly, and the Hall fault of the motor
E050	Abnormal self -test process	The order of the hall phase or motor phase is wrongly connected, the motor is faulty, the movement is slipping or stuck