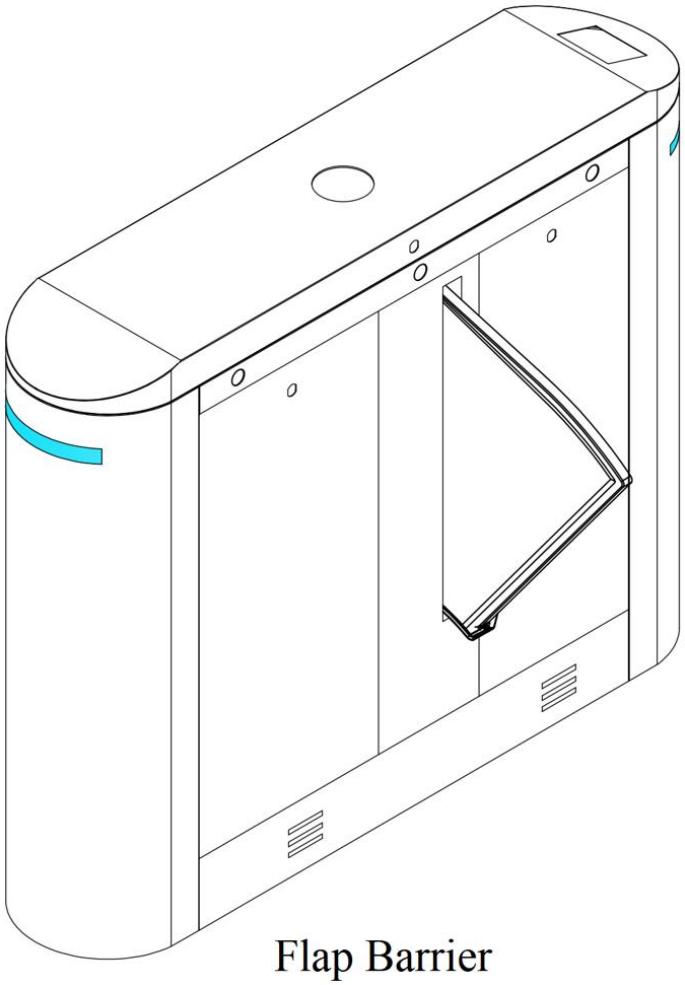
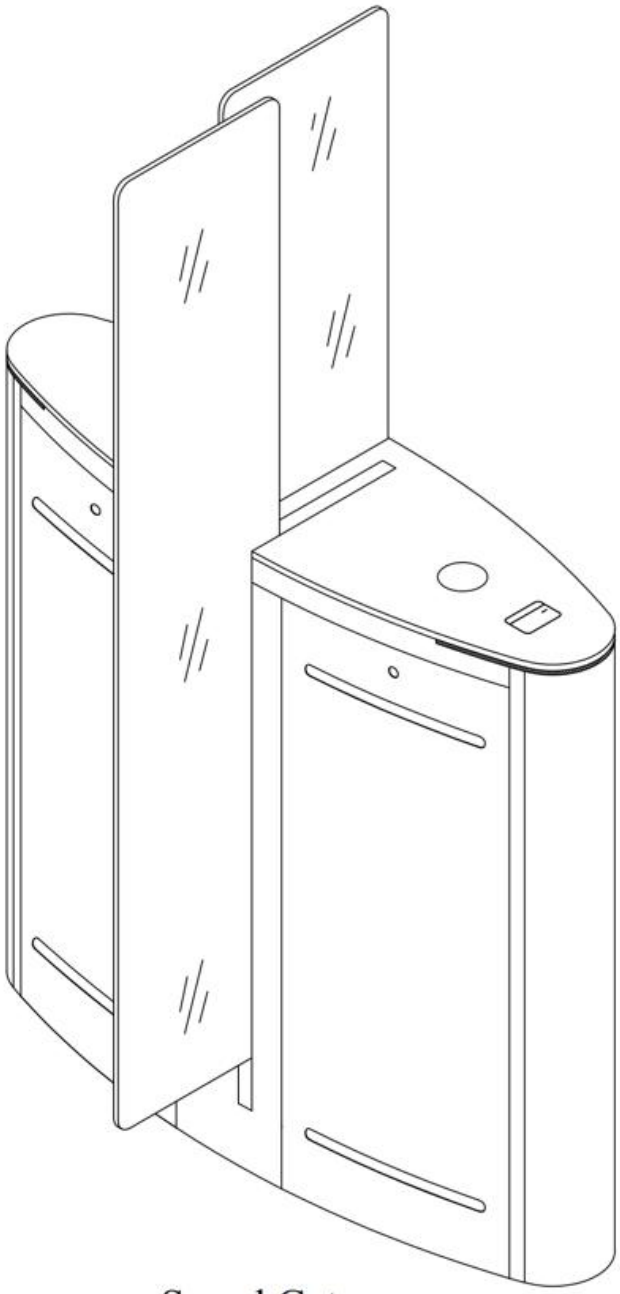
DC Brushless Flap Barrier/ Speed Gate

Manual



Flap Barrier



Speed Gate

V1.0.0

Contents

1. Product Description 1
1.1. Product Introduction 1
1.2. Features and Functions 1
1.3. Technical Data 1
1.4. Control Board Interface Definitions 1
2. Mechanism Drawing 2
3. Setting Operation 2
3.1. Keys Operation 2
3.2. Parameter Setting 3
3.3. LED Text Explanations 5
4. Cabinet Base Installation Dimensions 5

1. Product Description

1.1. Product Introduction

The product adopts brushless control technology, can detect the motor position in real time, has physical anti-pinch protection, and sensitivity can be adjustable; it supports different passing mode settings such as passing by card reader and free passing; it also has several passing logic detection such as illegal intrusion, reverse passing, and anti-pinch by infrared.

1.2. Features and Functions

1.2.1. Opening & closing speed is adjustable.

1.2.2. Auto open when power off

1.2.3. Output relay signal for illegal intrusion, entrance and exit

1.2.4. Open by remotes (Optional)

1.3. Technical Data

1.3.1. Working Temperature: -35℃ ~ +80℃

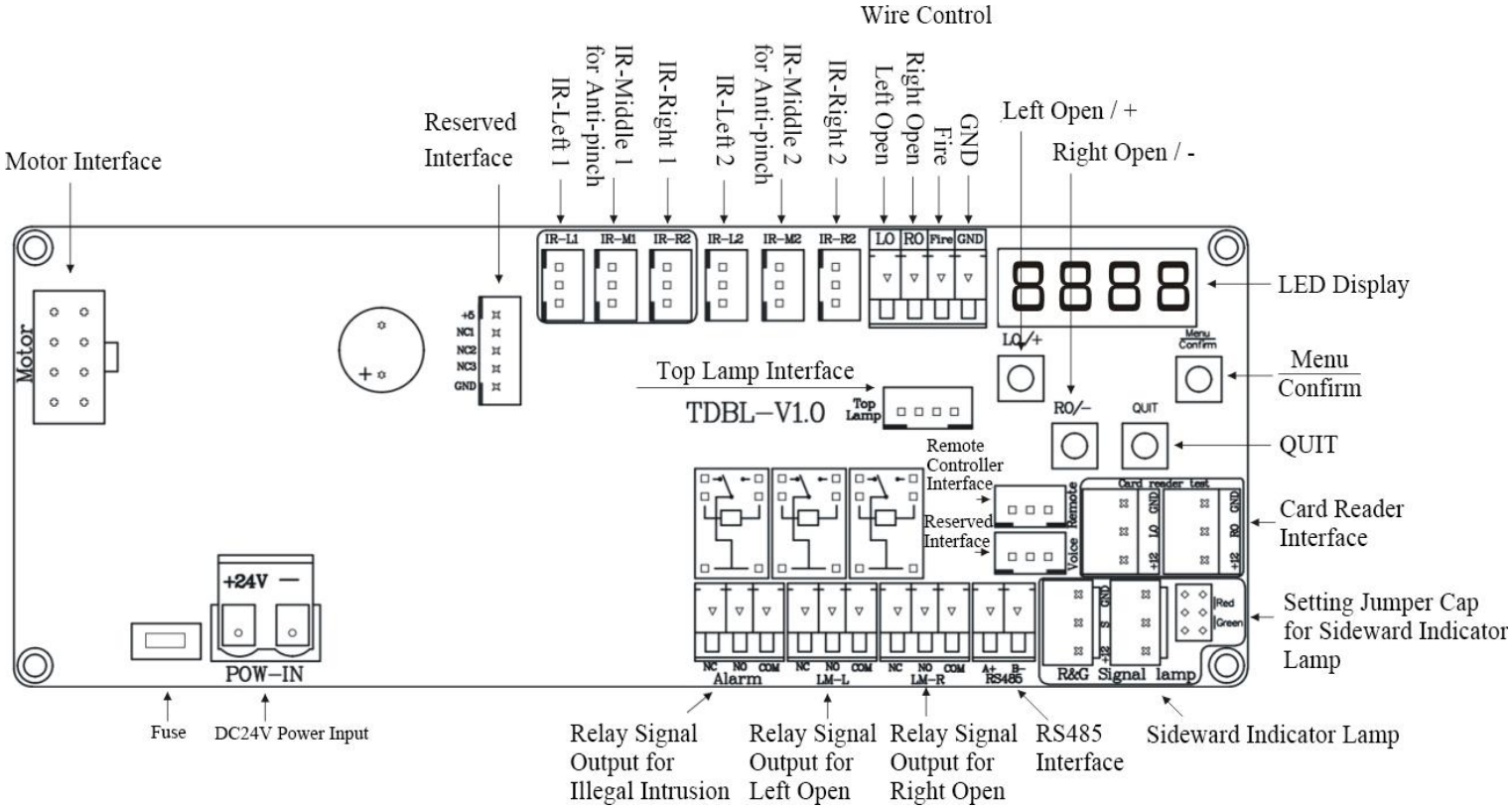
1.3.2. Input Voltage of Power Supply: AC100~240V

1.3.3. Input Voltage of Controller: DC24V

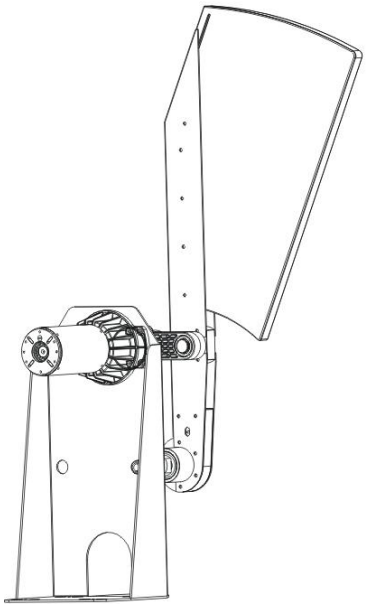
1.3.4. Motor Power: 50W

1.3.5. Relative Humidity: 90% (no condensation)

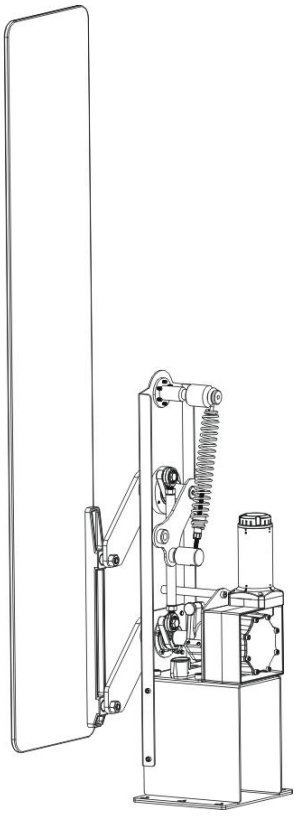
1.4. Control Board Interface Definitions



2. Mechanism Drawing



Flap Barrier Mechanism



Speed Gate Mechanism

3. Setting Operation

3.1. Keys Operation

The control board has four keys, they are " LO/+ ", " RO/- ", " QUIT ", "$\frac{\text{Menu}}{\text{Confirm}}$", users can use these four keys to set various parameters.

"LO/+" and " RO/- ": In the parameter setting state, short press once to add or subtract one, and long press to add or subtract continuously.

"$\frac{\text{Menu}}{\text{Confirm}}$": This key has 3 functions:

1. In normal working mode, long press this key for 2 seconds to enter the menu item selection state of "F-XX" (or long press this key and key "QUIT" at the same time for 2 seconds to enter the menu item selection state of "H-XX"), then you can press the "LO/+" and "RO/-" keys to select the menu item;

2. In the menu item selection state, press "$\frac{\text{Menu}}{\text{Confirm}}$" to enter the parameter setting state;

3. After the parameter setting is completed, short press this key to save and exit the parameter setting.

“QUIT”: Press this key in the parameter setting state to exit the parameter setting state and return to the previous menu, and the value set will be invalid.

3.2. Parameter Setting

⚠ Notice: Please don't change the code not showing in this table, or it will cause abnormal operation.

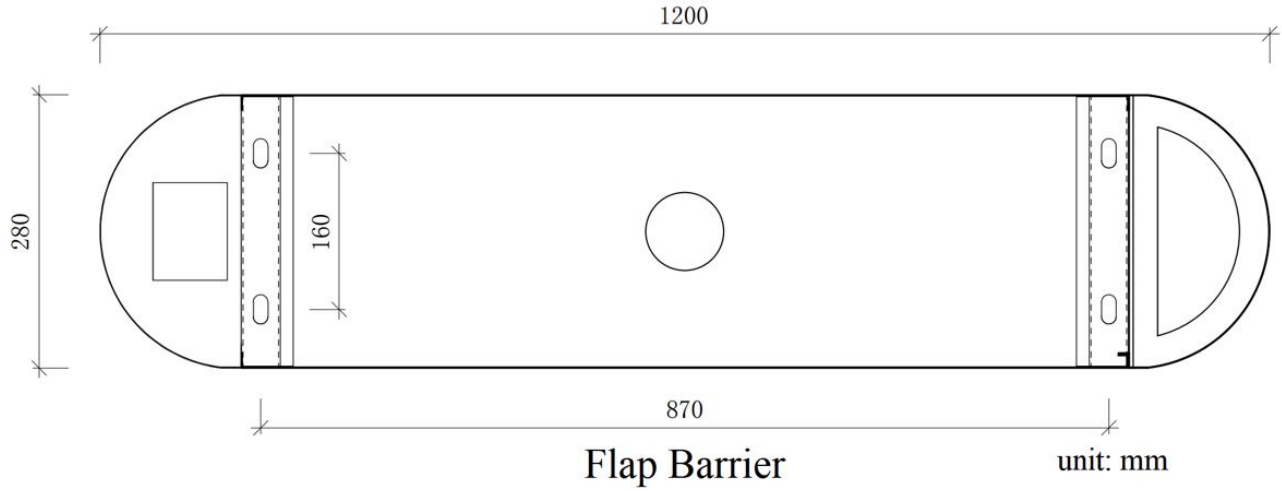
Code	Function	Default	Range	Remarks
F-00	Opening Speed	100	15-100	Bigger the value, faster the opening speed
F-01	Closing Speed	100	15-100	Bigger the value, faster the closing speed
F-02	Decelerating position when opening	33	10-80	The position for decelerating when opening
F-03	Decelerating position when closing	46	10-80	The position for decelerating when closing
F-04	Low speed operation position when opening	90	15-90	Low-speed running position before opening totally
F-05	Low speed operation position when closing	0	0-75	Low-speed running position before closing totally
F-06	Finishing speed when opening	4	1-50	The finishing speed when opening totally
F-07	Finishing speed when closing	4	1-50	The finishing speed when closing totally
F-08	Position of closing limit	1	1-255	Fine adjustment for closing limit position
F-09	Position of opening limit	1	1-255	Fine adjustment for opening limit position
F-10	Opening lasting time	5	0-255	The time for door keeping open when no passengers passing. Door will close when time up. Unit: second
F-13	Self-learning speed after power on	20	10-80	This speed is for searching the opening and closing limit position
F-14	Remote controller learning	0	0-30	Optional:To learn the remote controller. Long press the remote controller for 2s with any button. Only opening button will work after learning.

Code	Function	Default	Range	Remarks
F-15	Sensitivity of bouncing back when meeting obstacles	1	1-40	Speed of reacting when meeting obstacles. Unit:0.1s
H-00	Accelerating time when opening	3	1-20	Time for accelerating to F-00 opening speed. Smaller the value, faster the accelerating speed.
H-01	Accelerating Time when closing	3	1-20	Time for accelerating to F-01 closing speed. Smaller the value, faster the accelerating speed.
H-02	Quick setting parameter	0	0-1	0: flap barrier 1: speed gate This quick setting is used when PCB changed
H-05	Motor rotation reversely	Master barrier:3 Slave barrier: 2	2-3	3 (Positive rotation) 2 (Reversing rotation) Please change the motor rotating direction according to door running direction if needed.
H-08	Aging mode	0	0-5	Aging testing interval time. Unit: second
H-09	Factory data reset	0	0-255	5: Clear remote controller 10: Factory data reset
H-20	Access mode settings	0	0-2	0:Authorized passing for bi-direction 1: Free entry + authorized exit 2: Authorized entry + free exit
H-24	Gate closing if passing in opposite direction	0	0-1	0: Keep Opening 1: Closing
H-38	The buzzer voice when running to limit position	0	0-1	0: Closing 1: Opening
H-46	Reacting speed for opening when voltage is low	3	0-10	Unit :0.1s 0: not open
H-47	Lowest tripping voltage for auto-opening	22	15-22	Tripping Voltage, unit:v

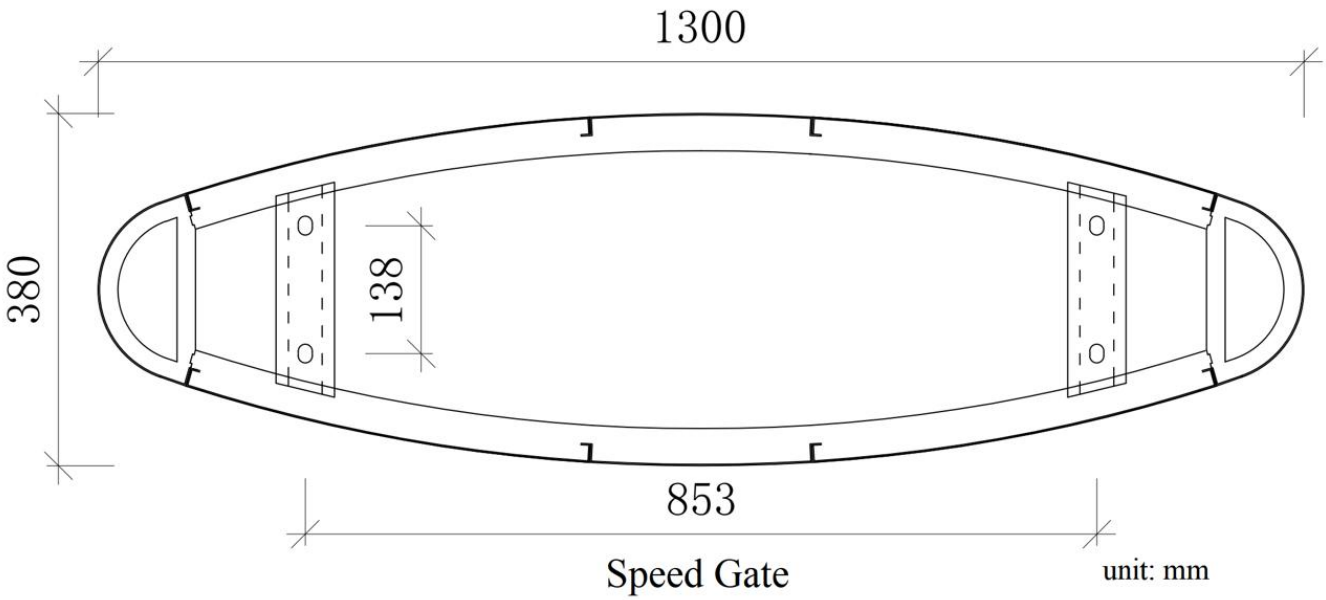
3.3. LED Text Explanations

Text	Explanation
STOP	Door at closing limit position
cLOS	During closing
OPEn	During opening
HOLd	Door at opening limit position
dE+Value	Countdown time for door finish opening
IdLE	Motor plug not inserted or motor fault
Er.ob	door bouncing back when meeting obstacles
Lo+value	Auto-opening when low-voltage. “Value”was set from H-47
uL+value	To show the power voltage.“Value”was the voltage. Only showed when power on.
Ac+value	Master PCB version. “Value”means the version number.
sL+value	Slave PCB version. “Value”means the version number.

4. Cabinet Base Installation Dimensions



Flap Barrier unit: mm



Speed Gate unit: mm