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The logo for Ronex, featuring the word "Ronex" in a white, stylized, sans-serif font. The letters are bold and have a slightly futuristic or industrial feel. The text is centered within a solid black rectangular background.









# INSTALLATION MANUAL

## The relevant notes

- The user must obey the diagrams and introductions below.

	<b>WARNING</b> When handling error, it will cause the possibility of the users death or serious injury
	<b>WARNING</b> When handling error, it will cause the possibility of the users injury and material loss.

	Means "Forbidden"		Means "Mandatory"
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 <b>WARNING</b>	
	Construction and adjustment, please follow the manual (If don't be careful that may cause the accidents when constructing and adjusting, such as fire, electric shock, falling)
	When constructing please don't let the person pass through the automatic door or near the working site (If the tools or components falls down, that will cause personnel injury.)
	Please do not transform the components.
	Please use the specified voltage and frequency of power. (Otherwise, It will cause electric shock, components damage etc.)
	Please do not touch the door when the door is under learning state. (Careless operation, will cause personnel injury.)
	Please set up and adjust the sensor, Make the door opening position fully into the detection range, and make sure there is no dead angle. (If the detection range is too small or leave dead angle, that may hurt the passer.)
	If the detection range can not be ensured, In order to ensure the passer safe. Please stop using, and tell the owner. (Be careful, or that may hurt the passer.)

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# 1、 RONEX function description

1. Program have considered the door weight, the doors won't collide when randomly setting.
2. The value of random adjustable parameter is set to minimum, the door still can open and close freely;
3. In the safety zone, resistance is minimum, when door opens / close in the security zone, people will not be pinched.
4. If three consecutive encountering resistance, the door will pause, until get a opening signal, then the door opens.
5. When the door is in a static state after three consecutive encountering resistances, if you change the doors position, the doors won't collide if there is opening signal again.
6. When the door is in open or closed state, if there is the external force, the motor has an immediate reaction force, if external force withdrawals  
In addition, motor recovers to normal state (the size of the motor reaction force is determined by the external force)
7. In learning process, the buzzer will sound, to alarm the user not touch the doors, to avoid pinched.  
After the learning process is finished, the buzzer will stop sounding.

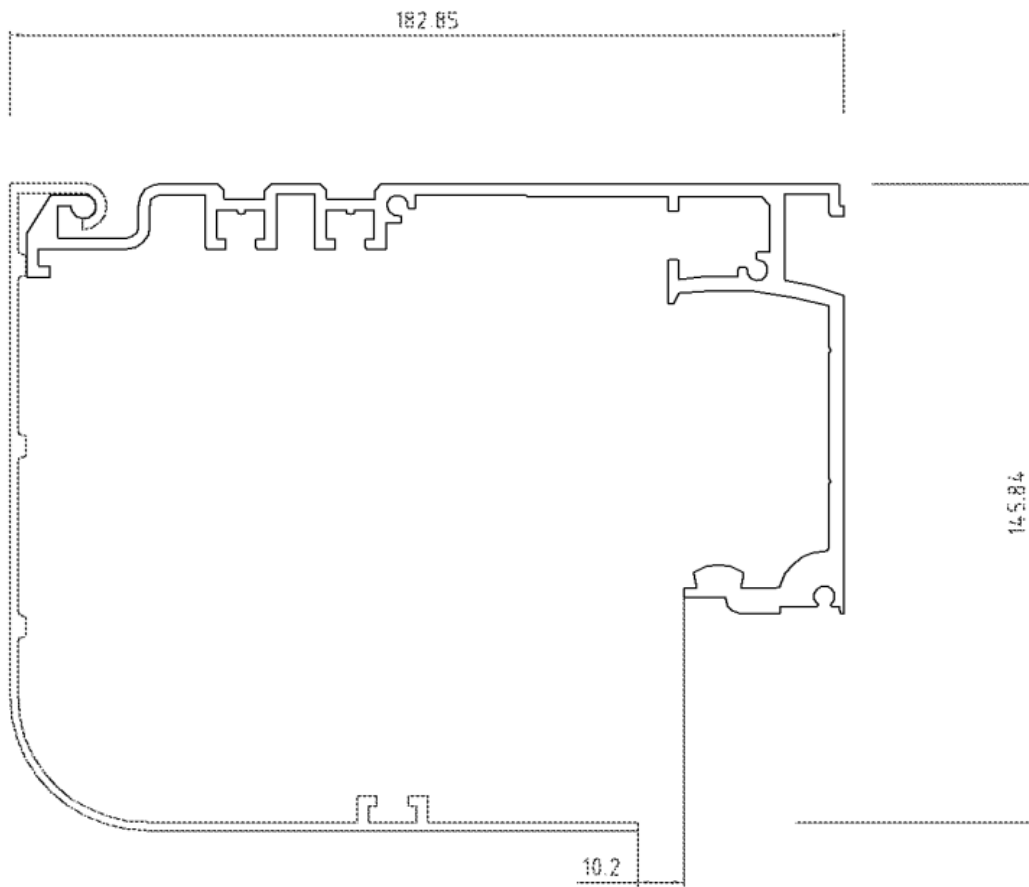
## 2、 RONEX features

- 1)、 RONEX good-looking appearance, fully function, high output power;
- 2)、 Adopting brushless motor, low energy consumption, long service life and stable running;
- 3)、 Controller and motor are positioned outside the belt, easy to install and adjust;
- 4)、 Controller and power device must be installed on the left of the beam;
- 5)、 RONEX easy to install, low noise, apply to office block、 storefront、 bank、 workshop、 restaurant, hotel, shopping central. Laboratory etc, maximum guarantee people walking and freight is unimpeded.

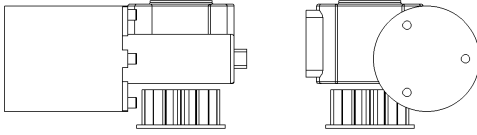
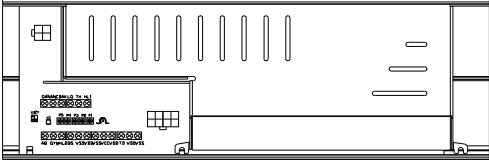
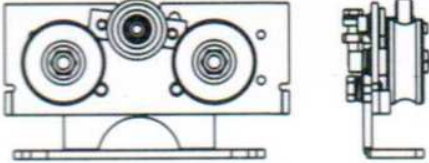
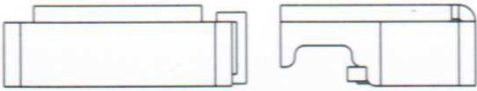
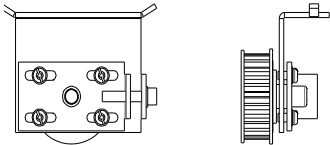
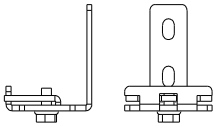

Technical parameters

	Single-leaf	Double-leaf
Max. door weight	1×200kg	2×150kg
Opening speed	150mm/s~600mm/s	
Closing speed	150mm/s~600mm/s	
Opening time	1s~15s	
Power Voltage	AC 220V 50HZ	
Work environment	-20℃~50℃	
Working programme	Opening signal——Open the door——Creep——keep opening ——closed automatically——Creep——close the door	

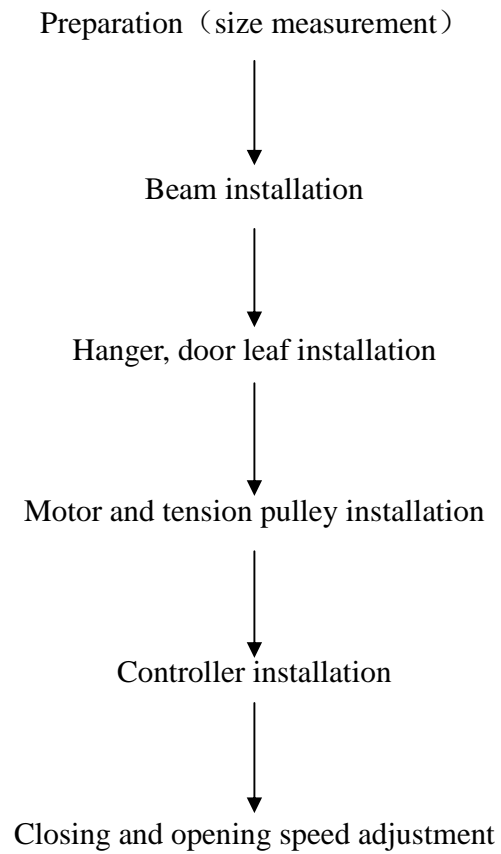
### 3、 RONEX rail and cover



## 4、 Parts list

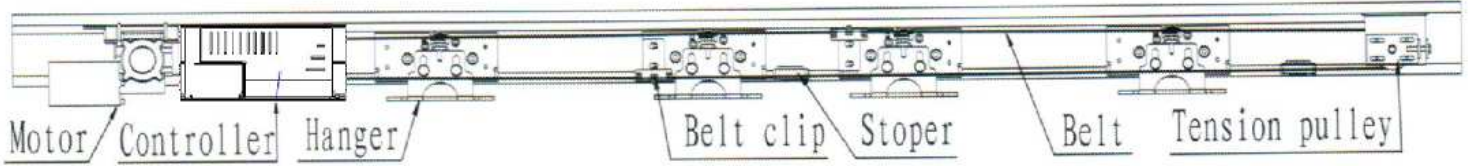
Item	NO.	Sketch	Quantity	Note
Motor	RONEX01		1	
Controller	RONEX02		1	
Hanger	RONEX03		4	
Stopper	RONEX04		2	
Tension pulley	RONEX05		1	
Belt clip	RONEX06		2	
Belt	RONEX07		1	
Cover	RONEX10		1	

## 5、 Installation

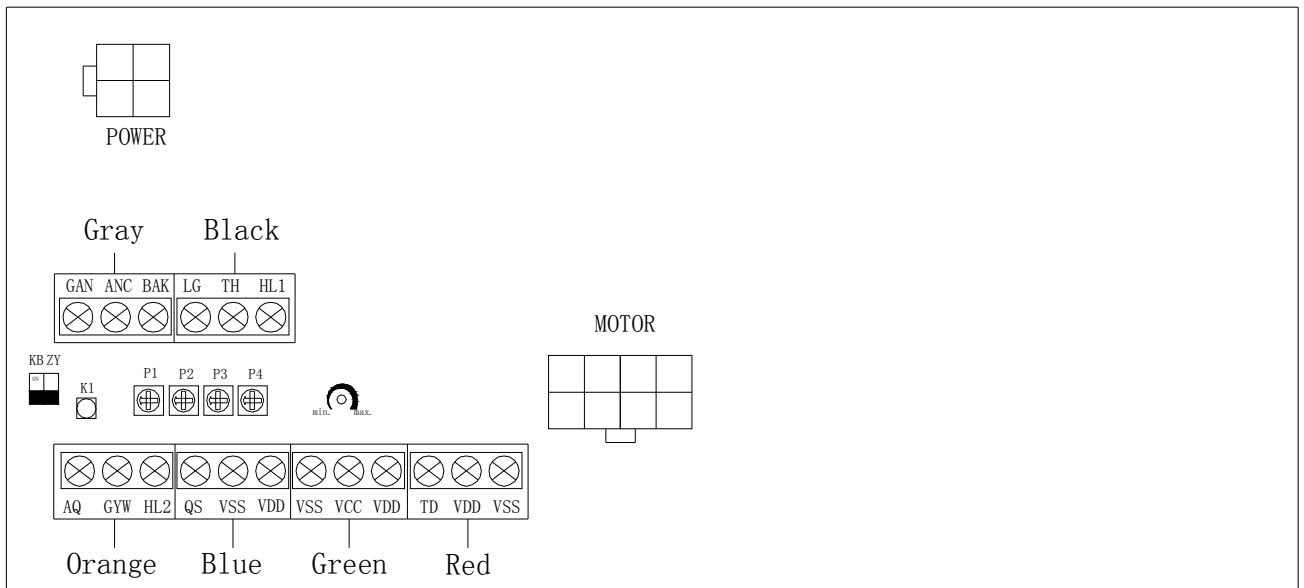




## 6、 Assembly drawing



## 7、 Controller and connection instruction



### Adjustment instruction:

P1: Opening speed

P2: Closing speed

P3: Slow closing distance

P4: Hold open time

### Port instruction:

**Gray:**

1. GAN: sensor signal 1
2. ANC: safety beam sensor signal
3. BAK: semi-open signal

**Orange:**

1. AQ: safety beam sensor signal 1
2. GYW: sensor signal 2
3. HL2: interconnection signal 2

**Green:**

1. VSS: GND
2. VCC: +15V
3. VDD: +24V

**Black:**

1. LG: secondary induction signal
2. TH: sensor signal 3
3. HL1: interconnection signal 1

**Blue:**

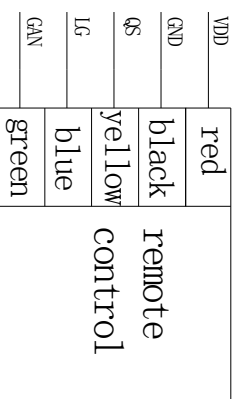
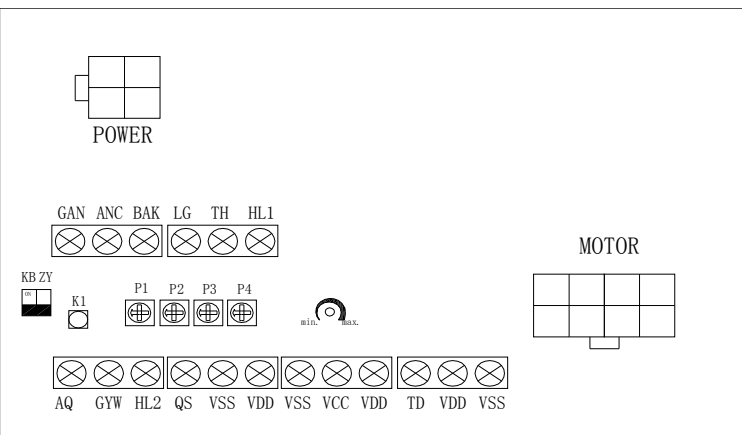
1. QS: full lock signal
2. VSS: GND
3. VDD: +24V

**Red:**

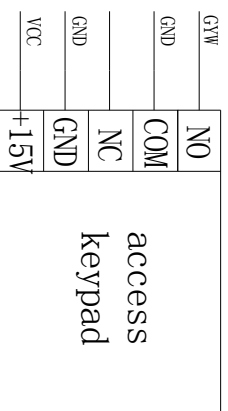
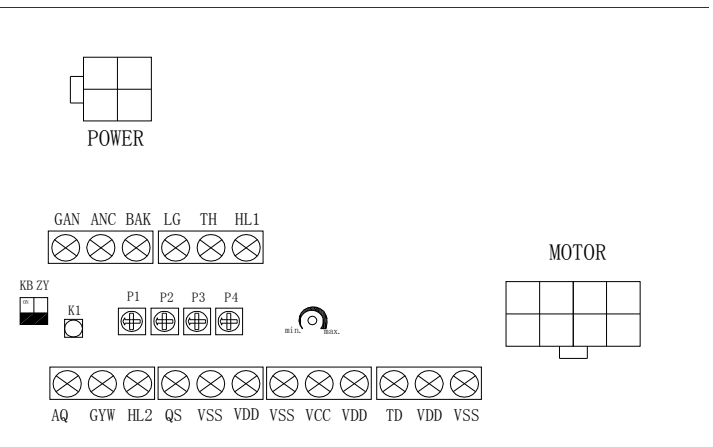
1. NC
2. VDD: +24V
3. VSS: GND



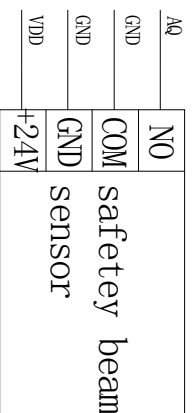
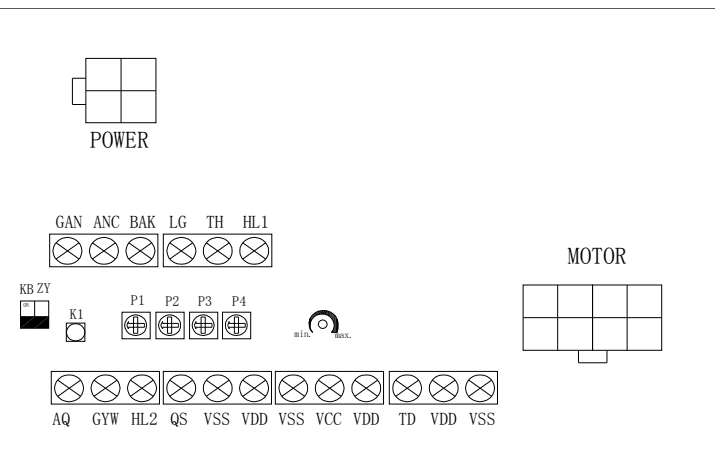
## b、Connection of remote control:



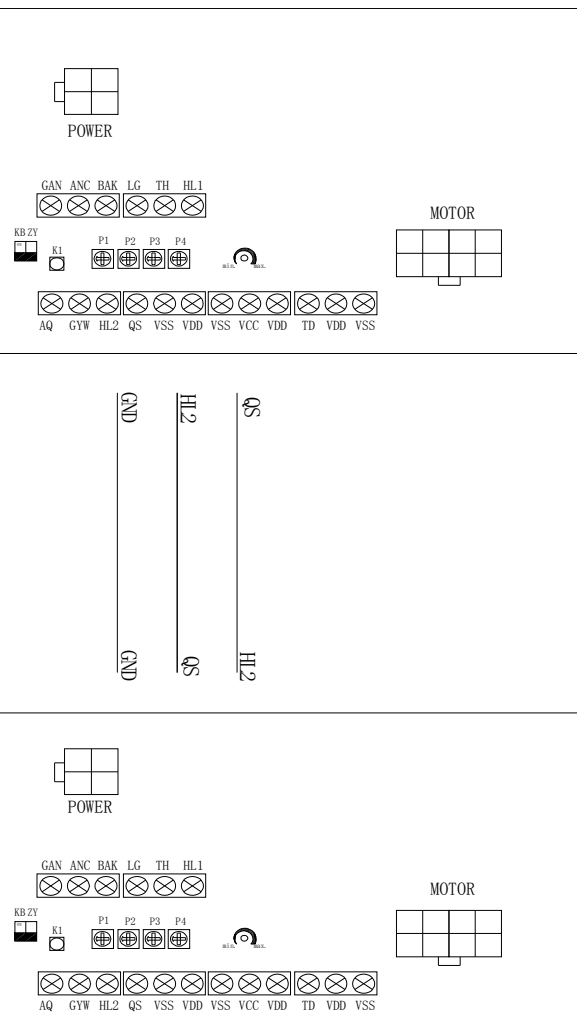
### c、Connection of the access keypad:



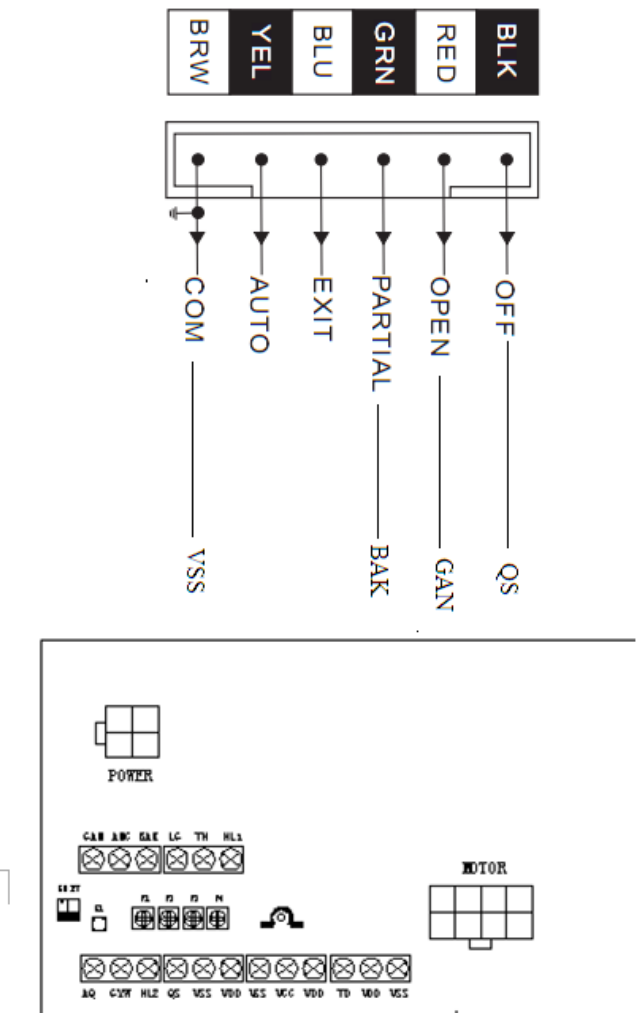
### d、Connection of safety beam sensor:



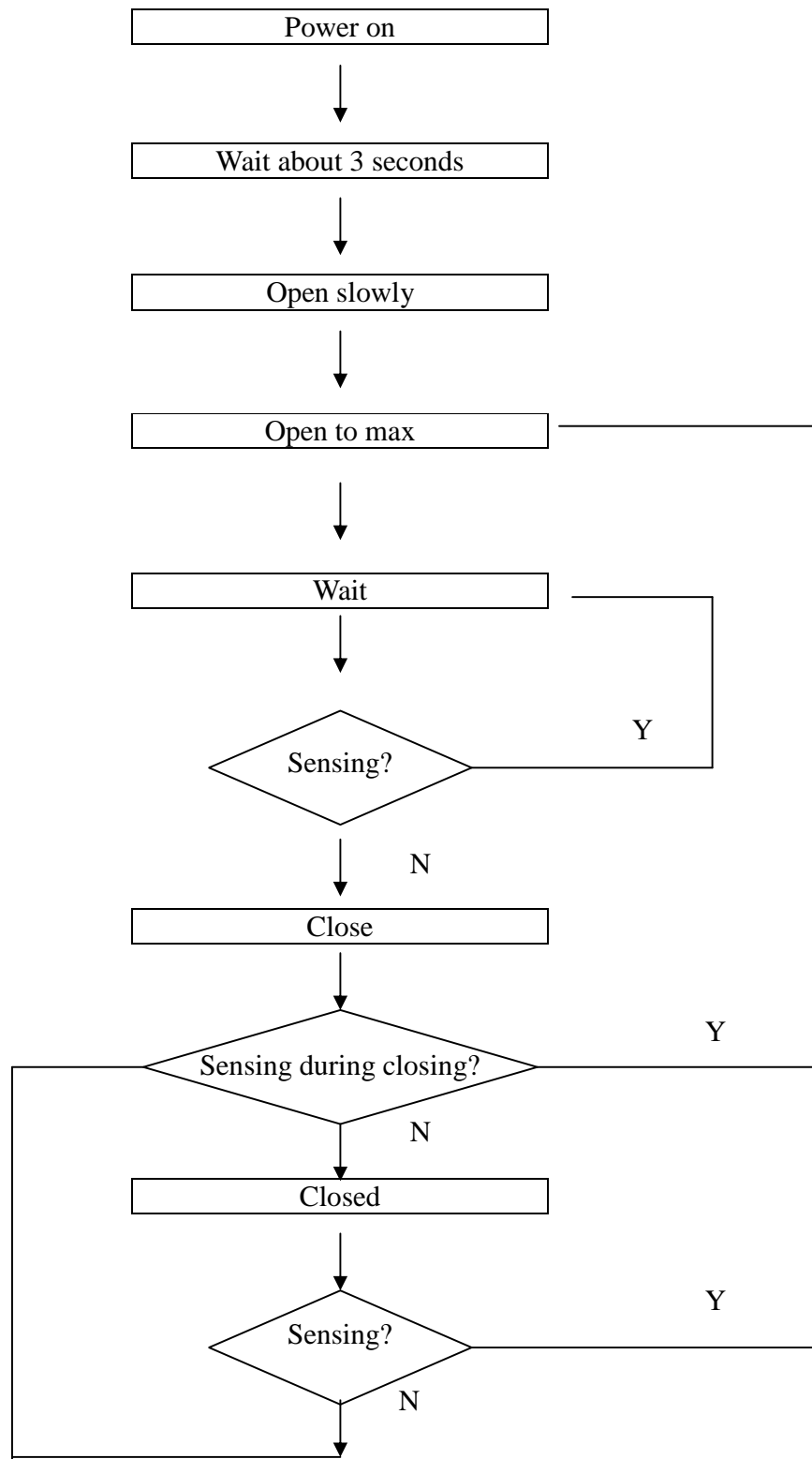
### e、Connection of interconnection:



### f、Connection of five-key program switch



## 8、 Door running procedure



## 9、 Failures and solutions

	Reasons	Solutions
Structure	There is friction on the top of door.	Move the installation position of frame and anti-detach device.
	The bottom of the door touches the floor.	Assure the door size and install afresh. Move the installation position of frame and anti-swing device.
	There is something adhere to the rail.	Clean or change the rail.
	The pulley drop from the rail.	Loose the anti-detach device and put pulley on the beam again.
	The door installation is not installed vertically	Change the position of anti-swing device.
Controller	The power is not connected	Check the connecting line afresh and connect them correctly.
	The sensor is short circuit.	Change the signal line.
	Set the opening/closing speed too slow.	Adjust the opening/closing speed afresh.
	Set as semi-open model.	Switch to full opening model.