

Product manual

Product

PRODUCT OVERVIEW

Thank Your choice intelligent remote control door machine installation use please read this manual carefully, and identify the trademark, brand, beware of fake.

The YG series door opening machine has automatic locking mechanism, which realizes the integration of driving and locking functions, installation and reliability. The structure is compact and the starting moment is big. The YG series is opened and installed on the side of the door, which is far away from the hinges. It is efficient, safe and electricity saving. The unique sliding rod shock absorber of the door machine can automatically lift and lift, adapt to the slightly undulating Road, and do not have to lay the track. Using YG series door opener, the door opens at any angle and is not restricted by the door machine itself. Any new and old gate can be installed, and it does not destroy the original structure of the door and the door column.

In the intelligent door opener industry, it has been working hard and innovating constantly. Its intelligent remote control horizontal door opener has been famous for its stable quality, advanced function, beautiful appearance, convenient installation and considerate service. The recent launch of the YG180 series of smart grid Weiya Jiang door machine, personally designed by German designer, the elegant appearance, highlighting the user unique taste. This product refers to the German peer technology, the quality is more stable and reliable, you can completely trust. We believe that GRAGE is in the mature development, leading the fashion for the electric door of the international villa!

Product

STRUCTURE AND CLASSIFICATION OF PORTAL CRANE

1. Opener structure, as shown in Figure 1

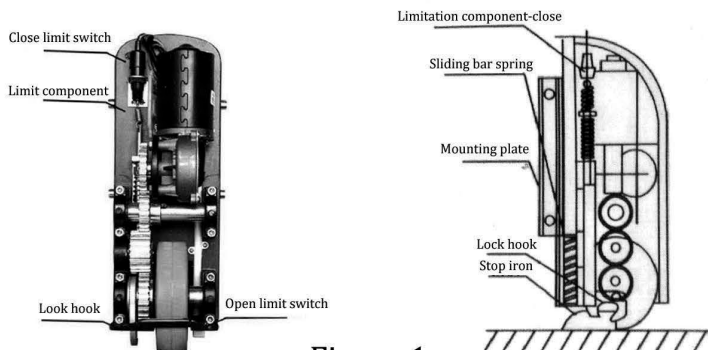


Figure 1

2. Control and power distribution structure, as shown in Figure 2

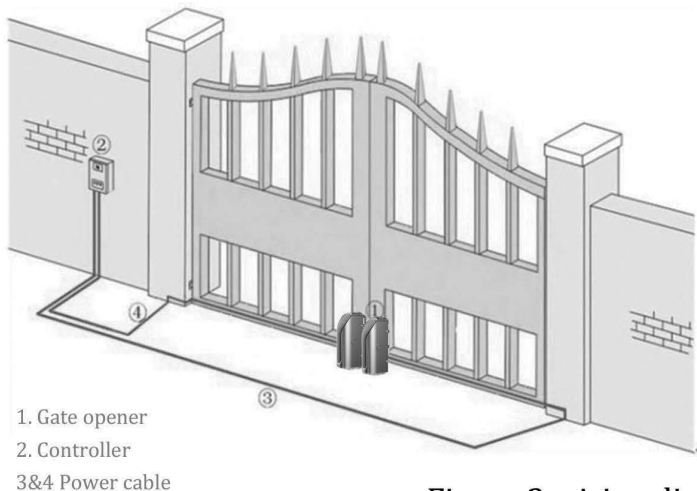


Figure 2 wiring diagram

3. Gate opener classification: inward gate opener and outward gate opener

4. Control system classification: dual-circuit five-line control system and dual-circuit two-line control system

MAIN TECHNICAL PARAMETERS

Name	Specifications
Supply voltage	AC220V or DC24V
Pushing force for opening	600KG
Remote control distance	50m
Rise and fall	0-90mm 0-140mm 0-250mm
Running speed	20m/Min
Ambient temperature	-40°C ~ +60°C
Motor power	60W×2
Size of the door opener	350×128×175
Carton Size	395×315×335
Packing weight	20kg/box

1. Single and double open selection: through the remote control operation, single fan or double fan can be opened and closed at the same time.

2. Turn the door in order: the order of any single door can be realized.

3. Standby power interface: a battery or a solar cell can be used as a standby battery. (selected accessories)

4. Automatic identification system interface: as a part of the security system, the interface can be connected to a camera, a card reader, and used for automatic identification of a vehicle. (Selected project)

5. Infrared radiation interface: through the external infrared detector, the operation of pedestrians or vehicles through, that is, automatic stop. (selected accessories)

6. Difficult to stop: run into pedestrians, vehicles or obstacles, can automatically stop. Ensure safety, resistance size is set within the controller.

7. Controller lock: remote control keystroke operation, prohibit illegal theft.

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THE USE OF METHODS

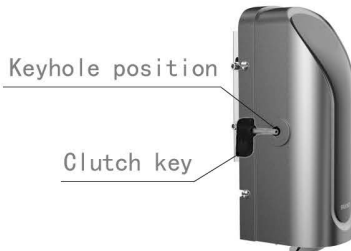
There are two basic methods of electric and manual use. The obstacles in the operating range of the door body should be removed before operation, and the traffic is prohibited in operation.

(一) Electric operation

1. Press the button of the remote control to open the door automatically, shut the door or stop in the middle.
2. Press the button of the controller to open the door automatically, shut the door or stop in the middle.
3. Access control system recognition and automatic release.

(二) Manual operation

1. Manual door opening: insert a special key into the keyhole, rotate clockwise to make the clutch open (when the door opener is in manual state), then push the door open by hand, and realize the manual door opening.
2. Manual closing: in the manual state, push the door close to the closed position, then use the special key to counter the clockwise rotation to reset the clutch (when the door opener is in the electric state), then push the door to push the lock hole position to achieve manual closing.



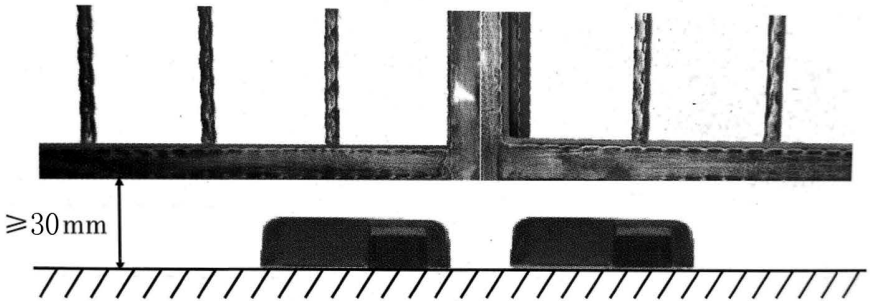
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INSTALLATION METHOD AND DEBUGGING

(一) Get ready

1. Check the flexibility of the door opening and closing process: at the same time, it is determined that the gate has no rebound in the limit state of closing or opening.

When the gate is closed, the height of the bottom of the door frame to the ground should be greater than or equal to 30mm (slightly higher than the iron retaining height Figure 4). Special treatment should be made if less than 30mm.



2. Determine the fall of the ground within the operating range of the door H:

Drop $h =$ ground height -- the lowest ground level

a) When the $0 < h < 80\text{mm}$, belongs to the normal fall, selection standard;

b) When the $80\text{mm} < h < 140\text{mm}$, belonging to the larger gap, the extension configuration;

3. Determine the configuration power of the door machine

Measure the width, height and weight of the door single fan, and choose the common or energetically driven motor according to whether the door is sealed and the external environment, such as the condition of the ground and the size of the wind.

Product

INSTALLATION METHOD AND DEBUGGING

4. Choose the type and configuration of the door opener: according to the type of user and the requirement of the function.

5. According to the distribution system electrical wiring diagram (second page 2) of the door machine, the protection line pipe is embedded. At the same time, the line diameter and core number of the multi strand wire (cable) are determined. According to the connection mode of the gate machine and the controller, two or two two core cables are connected to the controller.

- a) If the installation of electricity, electric lock connected to controller two core cable;
- b) If the infrared sensor is added, the infrared sensor will be connected to the control box by three core cable, and the infrared sensor transmitter and receiver will be connected with the two core cable.
- C) If you add a card reader, use four core cables to connect the card reader to the control box.

Matters needing attention:

a) The pipe that is buried under the projection of the gate can not conflict with the iron block to be installed.

b) In order to minimize line loss, the connection area of portal crane (or cable) should be above 1 square millimeter, and the remaining signal lines can choose 0.5 square millimeters.

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INSTALLATION METHOD AND DEBUGGING

(二) The installation of the controller

1. The installation of the controller (indoor or outdoor) please comply with the electrical and electrical safety specifications.

2. The position near the gate should be chosen as far as possible, which can shorten the circuit lead, reduce the loss of the line and save the electric energy.

3. There should be independent electric switch, leakage protection and overcurrent breaker.

4. If the outer box is to be added, the shielding effect of the metal products to the remote control reception should be taken out of the antenna out of the box.

5. Controller installation position and height should be appropriate, should avoid indoor ventilation environment or is ut of reach of children.

6. Circuit wiring method: please refer to the instructions attached to the controller of the opening machine.

(三) The installation of the door opener

1. Confirm the installation position of the door machine; record the location of the two door on the door body in the closing state of the two gates, and notice that the inner distance between the two doors can't be less than 70mm, so as not to affect the manual door opening.

2. There are two methods to determine the height of the installation of the fixed plate of the door. First, the door is moved to the lowest ground in the walking range of the door.

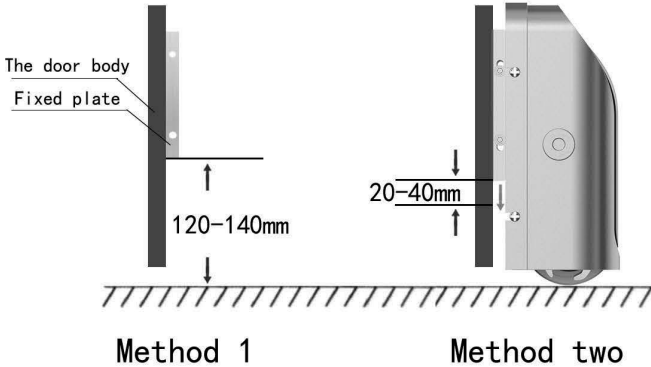
Method 1: move up and down to make the fixed plate, make the bottom of the fixed class bottom 100 millimeter to 120 millimeter at the lowest point, and make a mark to determine the installation height of the fixed plate.

Two, open the door machine to keep the natural state, the spring is not pressed and stretched vertically against the door body, write down the plate fixed on the door body position from the marking position will be fixed plate to move down from 10 to 40 mm, this is the fixed plate door machine actual installation height.

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INSTALLATION METHOD AND DEBUGGING

Whether the method or method two is applied, the installation height of the fixed plate shall be appropriately increased or reduced according to the factors such as the smoothness of the ground, the size of the door, the weight and the flexibility of the hinge.



Note: the fixed plate should be installed vertically and welded to the door with bolts or electric welding.

3. A hole is opened on both sides of the inner side of the bottom frame of the gate, and the line holes and the outlet holes pass through the wire, and a piece of soft casing is added to the wire at the opening.

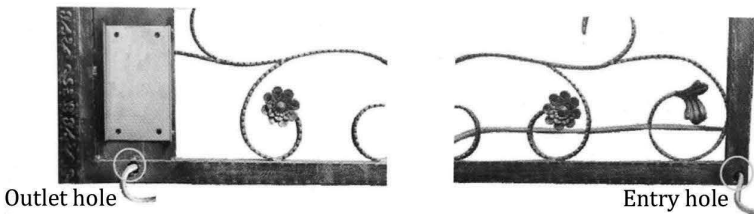


Figure 5 opening at both ends of the inner side of the front frame of the gate

4. Fix the opening machine, connect the wire, and the color of the plug line of the connection socket in the controller.

Check: switch the door opener to manual state with a special key, push the door front and back.

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INSTALLATION METHOD AND DEBUGGING

At this time, the door opens up and down with the rise and fall of the ground, without the death of the top, the suspension, the wheel and so on.

5. Close the door and lock the fixed gear. (refer to the following points):

In the manual state of the door, the door is moved to the closed position and the fixed iron is loaded into the lock. Switch the door machine to electric state and lock with a special key. The moving fixed iron gear aligns the middle line of the keyhole with the lock hook of the door, and marks the position of the iron. The ground is perforated and the iron gear is fastened with the expansion bolt.

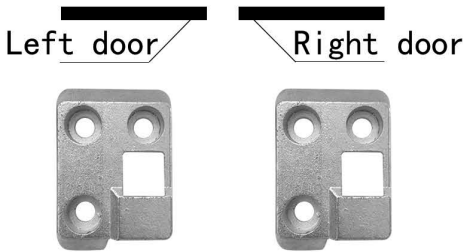


Figure 6 the relationship between the iron retaining and the position of the gate (overlooking)



Figure 7 position relationship between iron retaining and lock hook

NOTE:

- When the gate has a door block, the fixed iron retaining of the door that is first closed should be installed first, and 0.5 to 1 millimeters are opened before and after the two fixed iron retaining.
- When the gate is closed, the ground of the wheel of the door and the ground at the fixed gear should be on the ground level.
- If a cushion cushion is installed between the two doors, the door machine will be installed before installation. Otherwise, it will affect the reliable locking of the door machine and even lead to the failure of the door machine.
- The installation of fixed iron retaining should be firm and can not be loosened or placed in use.

After loading the iron, the manual switch door is used to verify whether the iron gear is properly installed.

A moves the gate in manual state, then switches the gate to the iron, then switches to the electric state with a special key, pushing the gate to the fixed iron block, and the gate should be locked reliably.

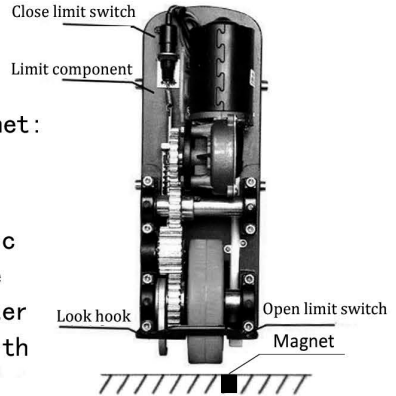
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INSTALLATION METHOD AND DEBUGGING

With a special key, the door machine can be switched to manual state, and the door can be easily pushed open.

6、Installation of opening limit magnet:

Open the door to the largest or specified location and return to one hundred millimeters. Find the magnetic induction switch on the ground at the bottom of the door opener. The diameter is 22 mm and the magnet is leveled with the ground.



(四) Operation and debugging of electronic control door

The operation should be checked before the circuit wiring is correct, the power supply voltage is in accordance with the special key, with the clutch disengaged or closed, check the manual opening and closing process is normal, the door is pushed to the midway, monk opened the door for clutch (electric power state); closing indication.

1. Press the button of the remote control or controller to open the door first, stop automatically, shut the door, observe whether the operation of the door is smooth and coherent, and whether the automatic stop is accurate. Otherwise, the accuracy of the installation should be rechecked.

2. Whether the operation direction of the door corresponds to the control key. If it does not correspond to a positive gate or a motor connection.

3. The locking method of the button, please read the controller's instructions.

Product

INSTALLATION METHOD AND DEBUGGING

4. Stop debugging difficult, the load capacity of the motor: according to the size of the door body, the door hinge flexibility and surface roughness, adjusting controller potentiometer (pressure and resistance) to increase or decrease the motor resistance ability.

5. Open the door blocked from the stop, close the door blocked back, (adjusting method above) test method:

a) Open the door to door operation, respectively, a counter force (pulling or pushing) at the difficult stop.

b) The two doors operate at the same time in the open direction. If the resistance ability of the motor is set too small, it is easy to stop in normal operation and affect the use; it is not effective to set too large.

6. When the gate runs the protection time, please read the controller's instructions. If the set time is too short, the door will stop automatically when the door is not in place.

7. Automatic closing setting and time adjustment, please read the controller's instructions.

8. The condition of the time delay of closing the door should be adjusted according to the different opening angles of the two doors.

9. Card reader infrared protection use and wiring, please read the enclosed instructions.

Product

MAINTENANCE AND REPAIR

1. The transmission part of the door machine should be kept clean without attachments.

2. Often clean up the sundries in the iron groove.

3. The lubricating oil is properly added to various mechanical parts per season.

4. Check the power protection device and the reserve power supply performance once a month.

Product

THE BREAKDOWN PHENOMENON AND OVERHAUL METHOD

Failure and phenomenon	Cause of failure	Maintenance method
The gate can't run	1.Check the clutch, whether it's in the electric state	Recovery
	2.Power supply has no indication, power outage or trip	Restore power supply
	3.Fuse breaking	Replace
	4.Remote control failure or invalid	Detection and replacement
	5.Circuit breakage line	Overhaul
	6.Remote control or gate malfunction	Record
Remote control distance or remote control ineffective	1.Battery power shortage damage	Replace the battery
	2.Remote control with lock, no code or damage	Unlock or replace
	3.Same frequency interference	Waiting for a clear source of interference
	4.Controller receiving module bad	Change the remote receiving board
Open the door, but never stop	1.Loss of ground magnetic steel	Recovery
	2.Open limit switch or limit component damage	Repair and replacement
Closing the door in place or reopening the door	1.Off limit switch failure or tension spring damage	Replace
	2.A loose or handicapped iron	Overhaul
	3.Shutdown sequence error	Heavy operation
	4.Circuit fault	Overhaul
Press open, key door machine action but not run	1.The motor running resistance protection (set too small)	Repair hinges or portal lifts to add lubricating oil
	2.Limit component, limit switch or controller circuit fault.	Repair and replacement
Press the key indicator and extermination machine does not move, as the detection signal controller of no-load driving abnormal sound host	1.Fault line or bad connection of system circuit broken line	Overhaul
	2.Loosening of fasteners or damage of components.	Repair and replacement
	3.The motor is damaged.	Repair and replacement

Reminder:

If the quality problems can not be solved during the use of the product, please contact the distributors from all over the country or carry out the relevant after-sales service terms according to the company.

Product

STANDARD PACKING LIST

Name	Specifications	Number	Company
Drive motor	Two-line system	2	Platform
Controller	Two-line system	1	Platform
Remote control	433MHZ	2	Only
Clutch key		2	Hold
Locking iron		2	Hold
Limited magnetic steel	The diameter is 22mm	2	Only
Expansive bolt	8×12mm	6	Only
Corrugated pipe	14×500mm	2	Root
Self working screw		1	Package
Warranty bill		1	Share
Certificate		1	Share
Product specification		1	Share

DOOR MACHINE PARTS SELECTED PARTS

Mame	Specifications	Number	Company
Ups standby power supply	DV24V/4AH	1	Platform
Card reader	DC12V	1	Platform
Infrared detector	DC12V	1	Pair
Lengthening skateboard	0-140mm	1	Set
Visual doorbell	Color, 4 inch or 7 inch	1	Set
Code remote controller	Battery power supply	1	Only

