

AUTOGLIDE

Installation Manual and Owner's Guide

CASA 120-O



**PLEASE READ THE MANUAL CAREFULLY BEFORE
INSTALLATION AND OPERATION**

Safeties & Cautions:

AUTOGLIDE series Remote Gate Opener need professional technician for the installation:

(1) All the operations must be implemented according to the instructions this is very important to personal safety. Improper installation or misuse of the product might cause series damage to personal and property.

(2) Please read instructions carefully before installation.

(3) Installation and machine fittings must comply with standards related.

(4) Power supply should be consistent with the requirements of the machine and well grounding. Electric leakage as well as circuit short protection device should be equipped.

(5) Before system maintenance, cut off the power , and check if the grounding is well connected

(6) Strongly recommended to install safety devices (such as infrared protection), and take frequent check to ensure normal work.

(7) Our company is out of responsibility for any operation or use violating the instructions.

(8) Our company is out of responsibility for the consequences caused by user's ignoring the process requirements of precision components during operation.

(9) Our product is in strict accordance with the instructions for the design and manufacture. Any violation of the instructions may damage the product or cause danger.

(10) Our company shall not be responsible for safety problems caused by using fittings that isn't produced by our company.

(11) Any attempts to change the structure of the components is forbidden.

(12) The installation personnel should give detailed operation methods to the users as well as the regulations under emergency, also the "instructions "should offered.

(13) During installation, keep the children and other unrelated person away from the Installation site.

(14) Before electric control system operate, remove all the barriers within the door covering area and any vehicles or person are forbidden to pass.

(15) Both the installation position and height of main control box should be proper, do not be exposed to sunlight and rain, forbidden to let children to operate the

remote control as well as control panel switch.

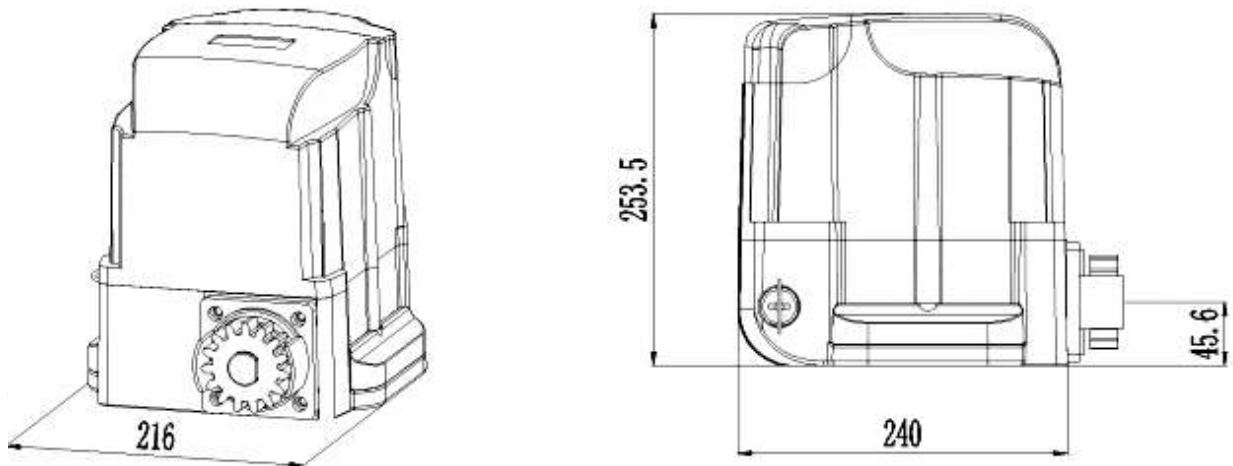
(16) If it is necessary to install a outer shield, consider that if it may shield signal of the remote control.

(17) Place the remote control out of the reach of children in case of accident.

(18) Any attempts to dismantle this machine privately is forbidden, please contact professional technician.

(19) Please save the instructions properly for future use.

Product introduction:



EXTERNAL SIZE (Fig.1)

Function & Characteristic:

① Install overheat protector in AC motor. The motor will cut off power automatically when the temperature reach rated power after a long time working, in order to extend the using life of motor.

② The product has speedy clutch, inset the release key and turn it 100 degrees to release the clutch when power off to realized manual operation. (Fig.2)

③ Machine running smoothly, parking without inertia, accurate position.

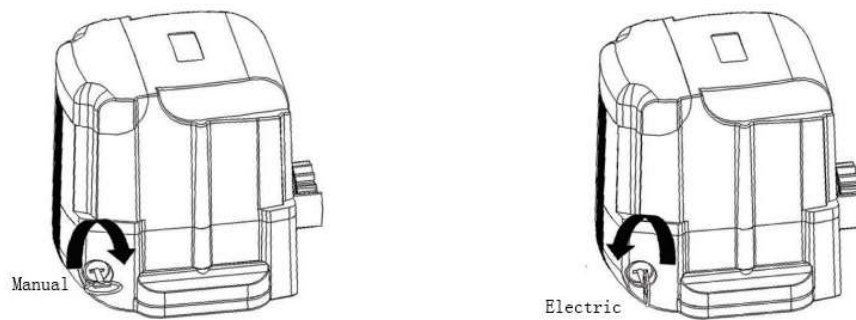




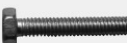






Fig.2

Technical parameters:

Model	CASA 120-O
Power supply (Vac)	10V/220V~240V
Max. gate weight (KG)	1200
Max .torque	35Nm
Rated Power (W)	550W
Tooth number of gear	15
Overheat protection (□)	120
Protection Class	IP44
Speed (m/min)	12
Temperature (□)	-45~+65
Noise	≤56dB
Certification	CCC/CE

Packing list

Picture	Name	Quantity
	Motor	1
	Instruction Manual	1
	Transmitter	2
	Base plate	1
	Screw (M8×30) ,washer, Nut	4
	Limit switch magnet	2

Picture	Name	Quantity
	Bracket for limit switch	2
	Release Key	1
	Expansion Bolt(M12×100)	4

Installation Diagram:

Note: Before installation please check if the motor meets your demand.

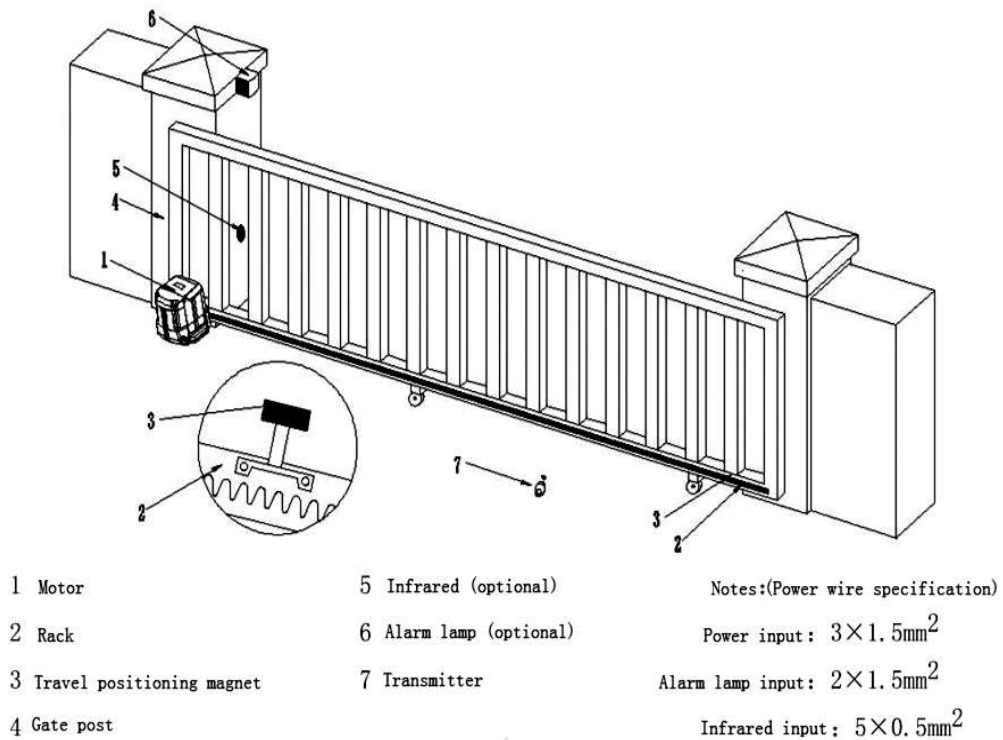


Fig.3

Installation and Debugging:

Gear installation

(Distance between gear and door body is 24mm)

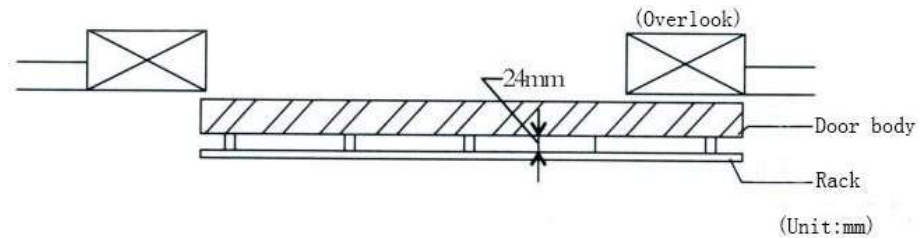


Fig.5

Base installation:

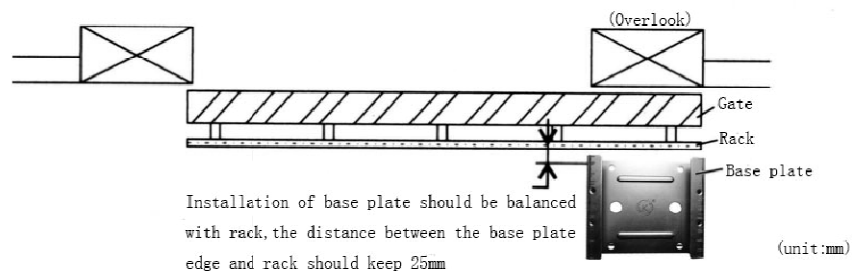


Fig.6

Rack installation:

(Remark: Please check whether the sliding gate can be moved smoothly before installation release the clutch with the release key)

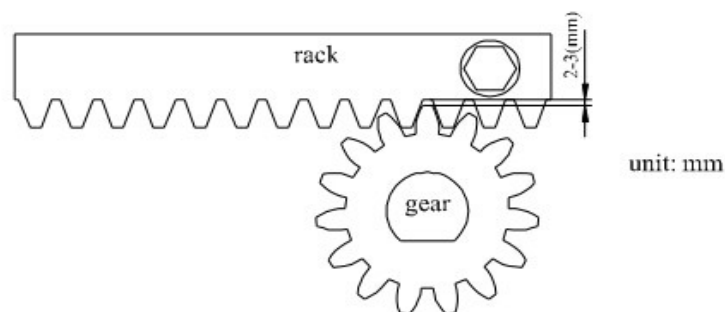


Fig.7

Warning: There must be a clearance between the rack and gear as Fig. 7, in case the motor function and manual operation may be affected.

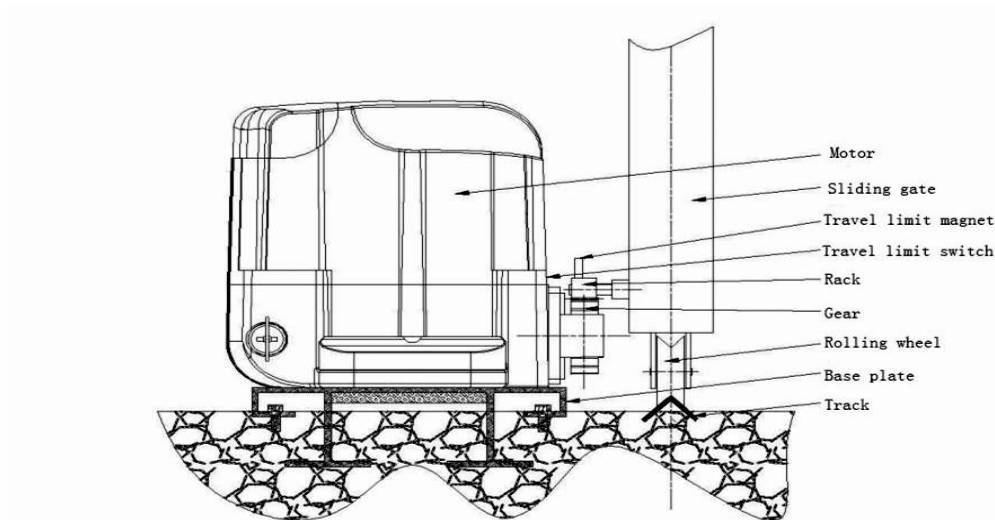


Fig.8

Limit switch bracket installation:

Move the gate manually to the open limit and close limit, mark the points on the rack, then fix the magnet bracket at the limit points on the rack. Pay attention to the direction of limit switch bracket: if it is anti-installed, the motor cannot be positioned .

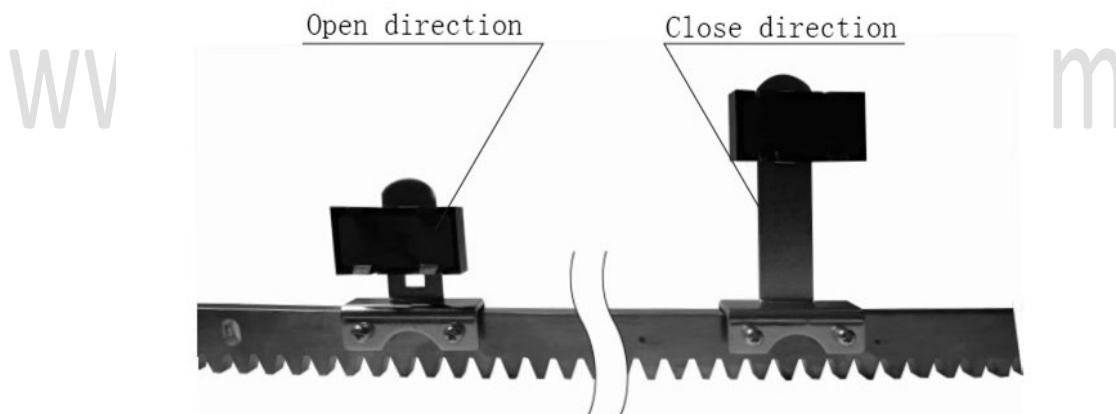


Fig.9

Clutch lock:

When the motor is out of electricity or has faults, cannot work normally, customer can use clutch key to release clutch lock then realize manual operation to open or close the door.

Note: Engage the clutch when the motor resume normal work.

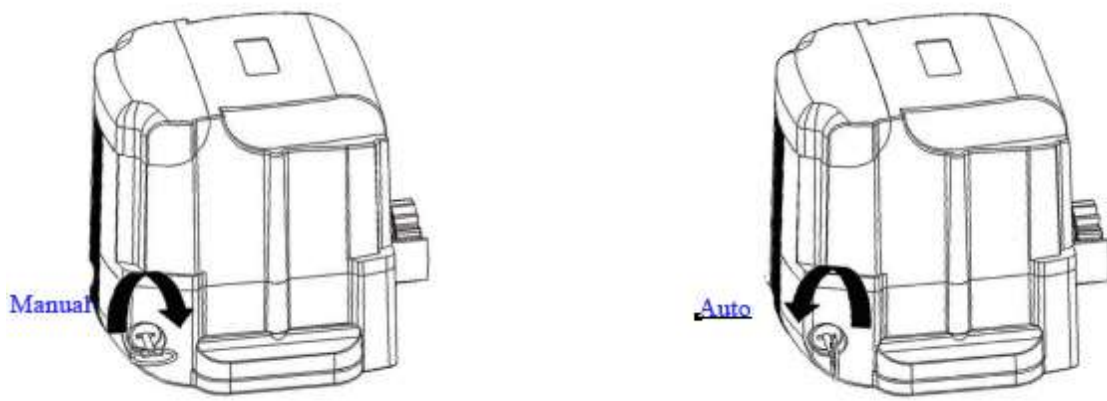


Fig.10

Install the electricity plug to an appropriate position according to safety standard.
Install the mounting plate as fig.11.
Note: ensure the base board is in horizontal.

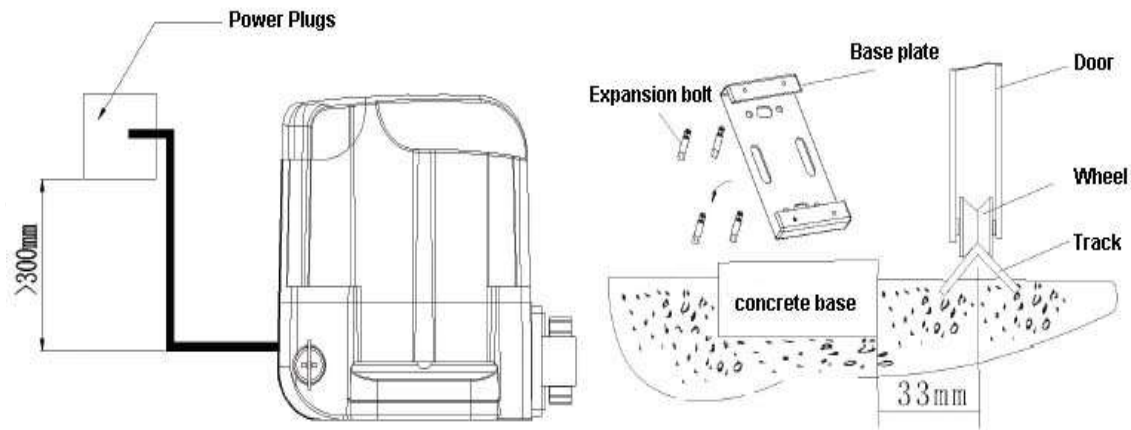


Fig.11

Fix the base plate onto the frame with four expansion bolts (Fig.11) and put the motor on the base plate, regulate the output gear to match the gear rack, then fasten the nuts. (fig.12)



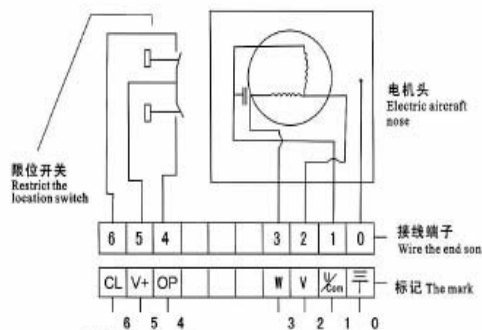
Fig.12

Weld the cylindrical nuts for gear rack fixed on proper position in the lower part of door (Fig. 8), then fasten the gear rack onto the cylindrical nut by bolts or welding. Regulate the washer behind the base plate base to make the gear match the rack. (Note: the distance between gear and gear rack should keep 1-2 mm)

The limit way of this model is through electrical magnetic limit switch. Please follow fig. 7 and fig. 9 to install fixed-plate for limit magnetic steel.

Installation of fixed-plate for limit magnetic steel: use clutch key to release clutch like fig.10.

Move the gate manually to the open limit and close limit, mark the points on the rack, then fix the magnet bracket at the limit points on the rack, then close clutch for automatic control. Regulate the position of fixed plate for limit magnetic steel till the door can open and close properly, and fasten the fixed-plate for limit magnetic steel finally.



0. 接地 Earth connection
1. 电机公共线 The public line of electrical machinery
2. 电机正转 The electrical machinery is being transferred to
3. 电机反转 The electrical machinery overturns
4. 开限位 The electrical machinery is being transferred to and stopping
5. 限位器公共线 Restricts a location machine of public threads
6. 关限位 The electrical machinery overturns and stopping



Segregated Control box and motor wiring diagram

Warning: Maintenance operations and repairs can be only performed by qualified technicians. Our company will not bear any legal liability for non-technicians operations.

USER GUIDE:

6-1 User need to have a regular check whether the door is sliding smoothly, add lubrication grease on the sliding rack regularly.

Common faults and removal methods:

Faults	Possible reason	Removal method
Door not move when press remote control	1.Plug not connect well 2.Clutch loose 3.Infrared fault 4.Fuse wire burn 5.Remote controller eliminated code	1.Let qualified technician connect the power well 2.Lock the clutch well 3.Check the infrared rays, change new if broken 4.Change new fuse wire 5.Remote controller re-study code
Door can't stop when open or close	Limit switch install reverse fixed-plate for magnetic steel install reverse	1.Re-connect motor wire 2.Exchange fixed-plate for magnetic steel
Failed to open or close when up to limit position	Improper position of magnetic steel and fixed-plate	Regulate the magnet , make the magnetic steel on the high plate higher and the low one lower
Weaker force after a period of working	Low voltage of power supply	Check voltage
Normal use for some time, then fail to work in one direction	Circuit or limit switch	Re-connect circuit or replace limit magnetic switch
Inadequate remote control distance	Low battery Remote controller locked Wrong study code or damage Same frequency interference The receiving template broken	Replace battery Press any key and hear a sound means locked, just make it unlocked. Replace Eliminate the interference Change receiving template
Motor fails to work after frequent open and close	The motor reach the temperature of overheat protection.	Stop door open and close, use again after the motor cooling down.
Door can't open or close completely	Travel study failure	Re-study travel protection time following circuit board instruction

(Non professional is forbidden to touch the line and components on the control board so as to avoid unnecessary damage)

AUTOGILE 1200KG SLIDING MOTOR

INSTRUCTION MANUAL

CASA 120-O

As newly developed product, this intelligent built-in controller for sliding door is controlled by computer with reliable performance, with resistance rebound, when compared with other liking products, it covers the following advantages:

- 1. Anti-collision design:** when the door body travel is completed, only after press reverse key, the motor can be activated so that the over-travel can be avoided.
- 2. Motor time protection:** the default value is 90s in order to avoid motor continuously working when travel is out of order for long time.
- 3. Auto close:** the time can be adjust from 1-120 seconds.
- 4. Motor running force adjustment:** running force of the motor is adjustable.
- 5. Motor resistance force adjustment:** the resistance force of motor is adjustable.
- 6. Motor max starting torque:** the starting torque is adjustable.
- 7. Soft start function:** motor with soft star and soft stop, stable working and no inertia.
- 8. Adjust slow speed for push force:** adjust the force for slow stop and start.
- 9. Single and four keys function:** Interchange of single and four keys.
- 10. High security:** AUTOGLIDE model with remote control function, control sensitively, control long distance, strong anti-interference. Using the most advanced jump codec technology, have 100 million password groups and cannot be deciphered , is more safe and secretive than the traditional remote control (6561 password groups) in the market.
- 11. Anti-clamping function:** when some barrier blocks the infrared rays, the door stops travel and moves reversely in case clamp some people and object.

Technical parameters:

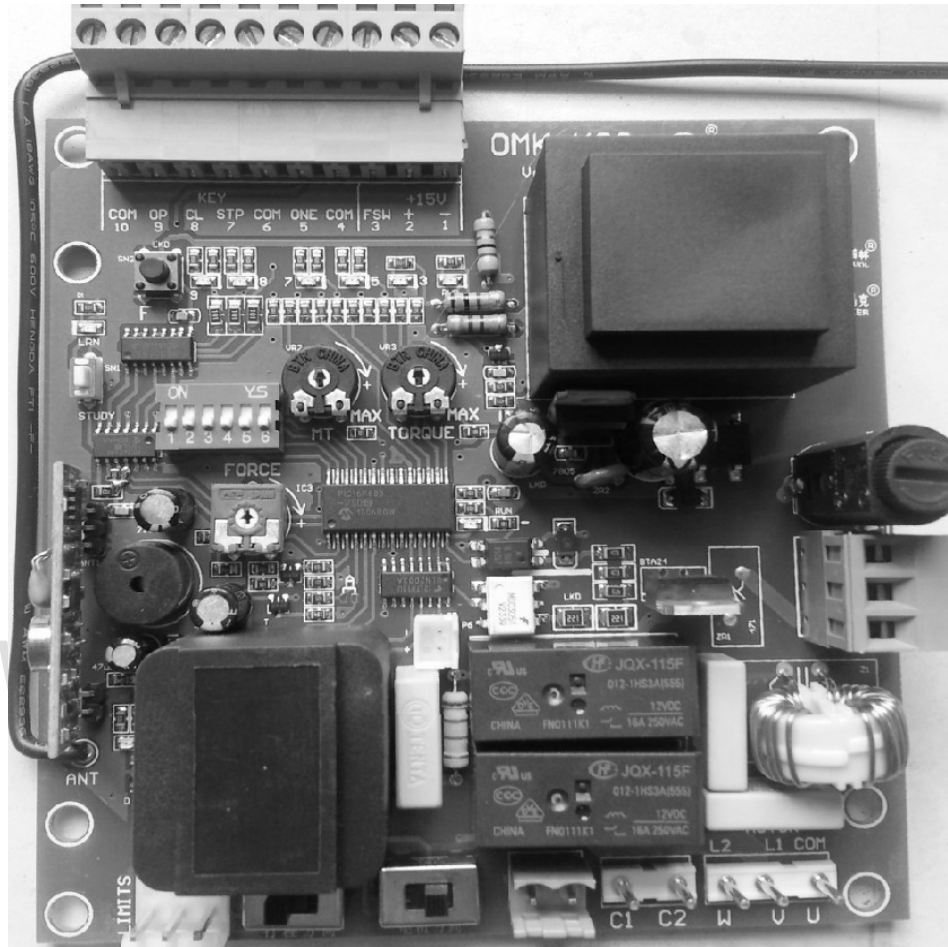
Voltage input: 220V \pm 10%

Max output current: 5A Fuse: AC220V 5A

Remote control distance: open space >30-50 meters

Installation steps:

1. Motor installation
2. Power connecting and debugging















Usage of remote control:

The control box can only match 30PCS remote controls, when the 31th remote controller is coded, the first one will invalid

A. Remote control keypad operation: press the direction keys (**▼close ▲open**) of the remote control the motor will work, press **■stop** the motor will stop.

B. Lock manual keyboard: when press **🔒lock** of the remote control, the control box is locked(the indicator light flashing) ; i.e. Only the manual bottom and remote direction keys are locked, and can unlocked by pressing **■stop** (the indicator light stop flashing). When the control box is locked, only by press **■stop** of the remote control, the direction keys of the remote control and manual operation key of the control box can be used.

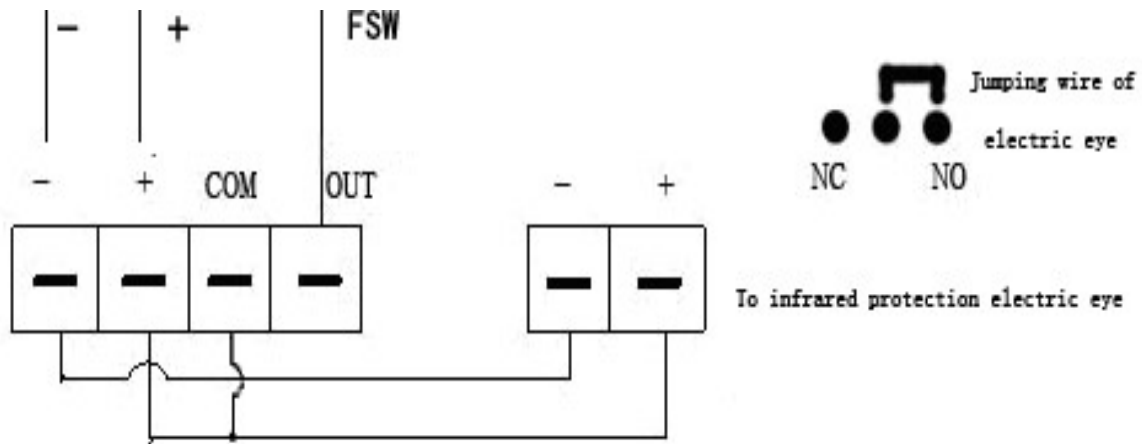
C. Remote control lock function: the key lock of our remote control is different from other companies. For other companies, if the control box is locked by lock, only by cut off power, the control box can be unlock. So the lock is meaningless. However, once our key lock locked, only remote control can unlock, power-off is useless. That's the real lock to avoid thieves and other mishandles to cause some unnecessary loss. Since our key lock is special (only can unlocked by stop of remote control), so we do special deal to the program, and the remote control is study style.(Refer to the study instructions of remote control). If use the lock to study, the system will shut the lock function automatically and will have no remote control lock function. All the remote control have no lock function when leave the factory. Users can use any key among "open, close, stop" to re-study, and the lock function of remote control will start working. How to identify whether the control board of remote control is locked or not: when the control board is locked, the indicator light on control board flashing continuously, the buzzer will send out sound "DI DI" when you press any key on control box or remote control, and the motor do not work

D. Remote control increased: press the "Study" key on the control board for one second and the function indicator light off, press the open two times continuously if you need remote control lock function, finish setting after the function indicator light flashes three times; if you don't need remote control lock function, press the lock two times continuously and can use normally after the function indicator light flashes three times. Same operations for the second, third remote control, etc.

E. Delete password: press and hold "Study" for 8 seconds and indicator light turn on normal light, then release, all the coded passwords deleted.

Using method of infrared interface

The control box can be connected with infrared (connect like following fig.). Make the infrared to normal open during installation. During door closing, the motor will stop for 2 seconds if infrared protection device have action and then perform open action. If it is two-wire electric eye, + connect to +, -to FSW.



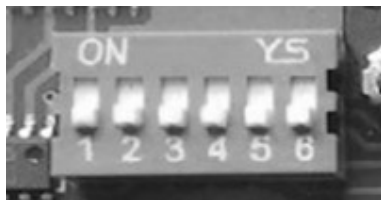
Travel connection:

Travel can choose machinery or dry reed board travel.
PUBLIC connect to -, direction wires connect to C.L and O.L.

Motor connection:

Motor must installed according to the following diagram,
motor GND line connect to COM on the circuit board, or will cause the problem of
motor single direction operation.

Setting of Red DIP switch on control board:



DIP 1 switch : Single key circulation function

Turn on DIP1 switch to OFF, ▲open ▼close ■stop keys control individually.
Turn on DIP1 to ON=single key circulation, that is with which key to study, this key will
perform circulation action .For example: use ▲open to study ,press▲open = door open,
press ▲open again=door stop, press ▲open once more=door close, press ▲open
again=door open, circulate in this way. Use single key control function.

DIP 2 switch : OFF For push switch (com & one)

DIP 3 switch : Auto close function

Turn on **DIP 3** switch to **OFF**, without auto close function.

Turn on **DIP 3** switch to **ON** with auto close function.

Auto close time setting: Turn on DIP3 switch and DIP6 switch to ON,

Each press of F key the auto close time delay one second, when reach the demand time, return DIP6 back to OFF. Auto time setting is completely. When setting auto close function, the door open to the limit, and perform auto close delay, at the same time function light flash in 1HZ.

When reach the setting time, the door will auto close.

DIP 4 switch: Soft start and stop function

Turn on DIP 4 to OFF, without soft star and stop function.

Turn on DIP 4 to on, with soft star and stop function.

DIP 5 switch : Maximum starting torque function

Turn on DIP 5 to OFF, the motor starting by MT force

Turn on DIP 5 to ON, the motor starting by full output torque

DIP 6 switch : Set

Turn on DIP6 switch to ON to set the function of circuit board, and return it back to OFF when the setting is completely.

Auto close function setting:

Users can set the auto close function as their need: stir **DIP[3]** to **ON**, auto close function

Working, shut down when connect to **OFF**. When the auto close function working, the door travel to limit and execute auto close timing with indicator light flash at 1 Hz. When reach the Setting time, the controller execute auto close operation.

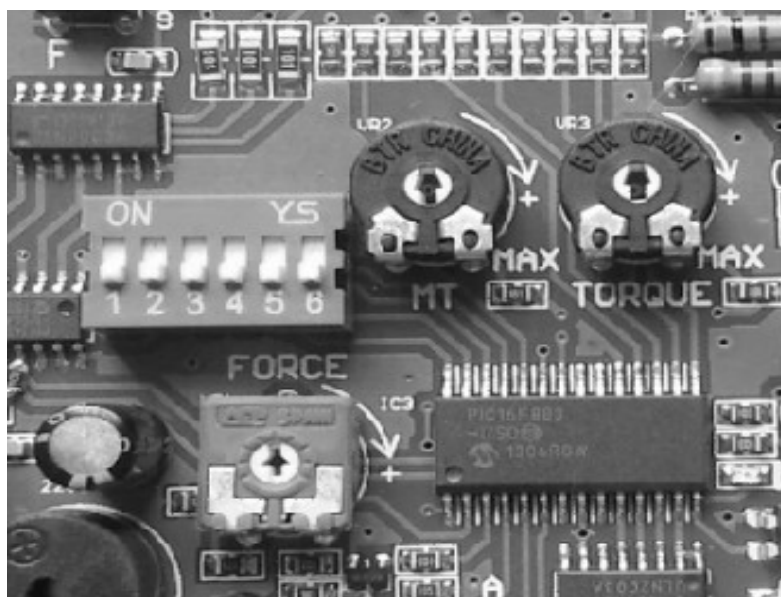
Soft start and soft stop function setting:

Noted that the soft start and soft stop function can only be set after installation of open and close limits→power off→ Turn on **DIP 4** switch and DIP 6 switch to **ON**→ power on→ press **F** key two seconds→ motor start and the door open completely→auto close→ close completely→ Return **DIP 6** switch back to **OFF**→setting completely.

Note: DIP 6 switch must be return back to OFF after setting.

Otherwise F key as single open function will be invalid.

Function adjustments: increase by clockwise, decrease by anticlockwise



FORCE: adjust the strength of resistance when meet obstructions during closing or opening.

MT: adjust the starting strength during soft star.

TORQUE: adjust the travel torque of motor: During operating of motor, the travel torque can be adjust to avoid clamping when the door run into resistance. (Note: at this time motor is still working, just its force is not strong enough to push the door, so you must stop the motor working manually (by remote control or power-off),to avoid long-time running of the motor and causes problems.

Attentions:

1. The working voltage of the control box is $\sim 220V \pm 10\%$, don't connect to 380V.
2. The wire buried underground should use thick, double conductor. The three-core shielding layer of travel switch should be well grounded and not a adapter between. The conducting wire should be set into PVC tube or pipe and do waterproof processing.
3. The default value is 90 seconds. Use battery of DC12V, 27A for remote controller, working life is one year. Remote controller can not be moisture, crashed. If want to reset password, please refer to password setting.
4. If can only control a short distance, please check if the mainframe is installed in the position that is shielded by metal objects or nearby.
5. Non-professional personal is forbidden to install the control box and circuit. We are out of responsibility for any personal safeties caused.
6. If the control box has any quality problem, please send to agent for dealing with. If

repaired by self, we are out of responsibility for any loss caused by self-repair.

Simply faults and debug:

I. When control box has no effective to motor, distinguish is the control box or wire fault.

Judging method: through the indicator lights in the control box to judge the position of fault. The common faults:

1. Wire broken or unwell connection can check by multimeter.
2. Moisture and electricity leakage, can change wire.

II. The fuse of control box burned after connecting to power, check if the voltage is high or Connect to 380V mistakenly.

III. When remote controller is out of order, try to redeploy a new one or check if the remote Controller has electricity.

IV. Remote control distance is short:

1. Control in open space >30 meters: since radio wave is affected by weather, the control Distance will be shorter under bad weather like rainy, foggy, windy. This is normal.
2. Old battery will also make the control distance shorter. Try after replace a new battery.

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