



SLIDING GATE OPENERS

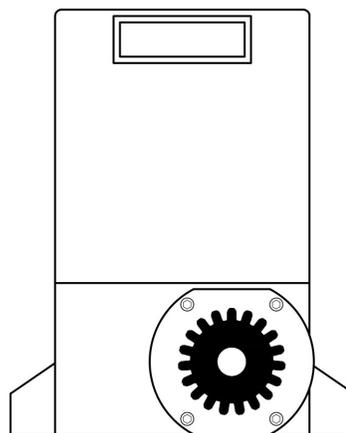
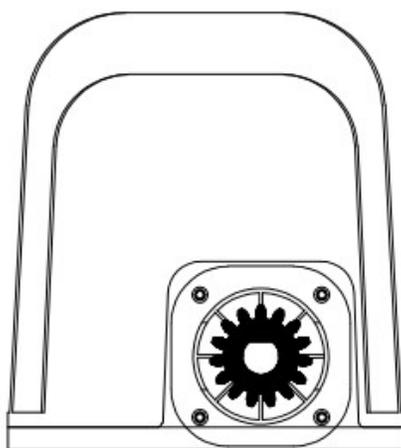
Model: CASA-M Series

Best Quality

PURE COPPER CORE

The strongest solution for sliding gates

Product manual



Designed for residential application

Model : Casa-080M/Casa-120M/Casa-170M



This product is CE certified



This product is CCC certified

Safety Protection and Precautions

Casa M series door machine 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.

Main Technical Specifications

| Model | Casa-080M/Casa-120M/Casa-170M | Casa-200MH |
|---------------------|--|-------------------------|
| Working voltage | AC single phase 120V/220V ~ 240V 50/60HZ | |
| Motor Power | 370W /450W /750W /900W /1200W | 550W /750W /900W /1200W |
| Starting current | 5 A | 3 A |
| Torque | 18Nm /22Nm /50Nm /60Nm /75Nm | 35Nm /40Nm /50Nm /65Nm |
| Running Speed | 12 m / min | 12 m / min |
| Gate Weight | 500 ~ 2500 kg | 1200 ~ 3000 kg |
| Working Temperature | -50℃ ~ +65℃ | -50℃ ~ +55℃ |
| Noise | ≤ 56 db | ≤ 56 db |
| Certification | CCC / CE | CCC / CE |

Working Principle and Main Components and Functions

The door opener mainly consists of a high-strength aluminum alloy box, a high-quality single-phase motor, a frictional overrun clutch, a worm-gear reducer, a gear clutch and an output gear. During the operation, the motor spindle drives both the reducer and output gear by means of the frictional overrun clutch, and the output gear then push racks mounted on the sliding door to move the door horizontally, so that the door can be opened and closed in the energized state.

When the special key is turned clockwise, the gear clutch is engaged and the motor power transmitted by the worm gear drives the output gear to rotate via the gear clutch so as to drive the rack mounted on the door, pushing the door to move (or to open and close) horizontally. Meanwhile because of the reverse self-locking feature of the worm gear mechanism, the door is locked as well, keeping closed against an external force.

When the special key is turned counterclockwise, the left and right parts of the gear clutch are disengaged from each other and the output gear is freed from the influence of the motor, allowing the door to be opened and closed manually.

Install the Metal Base

The door opener should be mounted on a metal base with bolts. As for how to install the metal base, see Fig.1

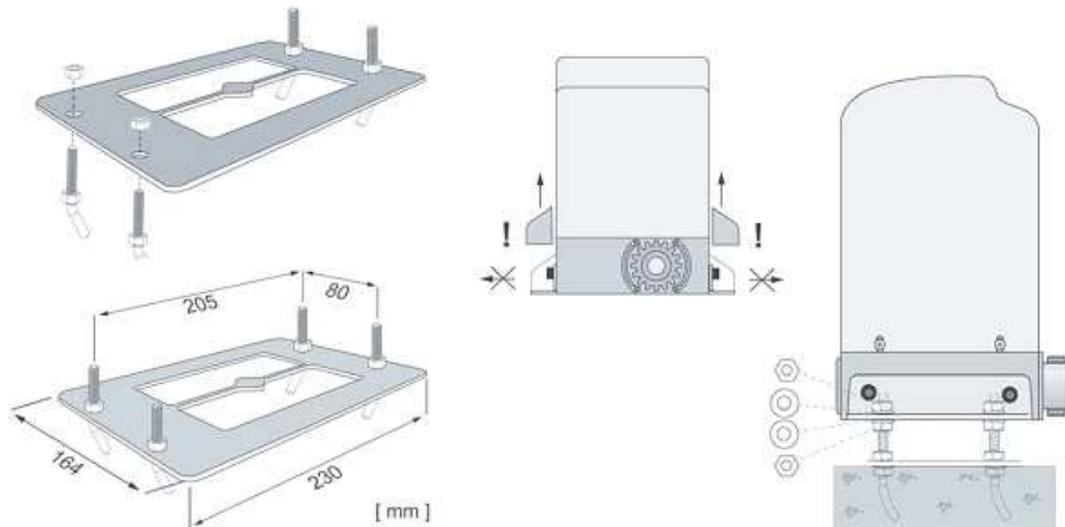


Fig.1

Mount the rack

The easiest way to install a rack is to place it on the gear teeth of the door opener first, disengaged the door opener, and then push the door slowly to move the rack bit by bit to the desired position. In this way, you can make sure that the teeth of the rack are perfectly engaged with the teeth of the gear. When doing so, don't forget to mark each mounting point. (See Fig.2.) Be noted not to lay the entire weight of the door onto the gear.

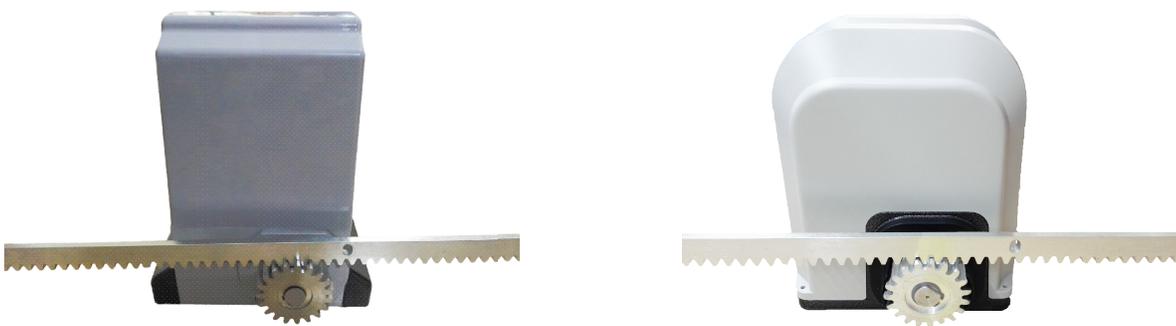


Fig.2

Door Opener Release Device (Open the door manually)

The door opener is designed with a lockable release device which enables you to open the door manually in case of blackout. For the release device and its operations, see Fig.3 and Fig.4



Fig.3



Fig.4

Install the Limit Switch

Install the switch bracket onto the rack by reckoning the final travel position. (See Fig.5 and Fig.6). For a spring switch, adjust until to an inclination that the spring comes into contact with the switch flapper. For a magnetic switch, the magnet should point to the motor and be located according to the position of the magnetic limit switch inside the housing.

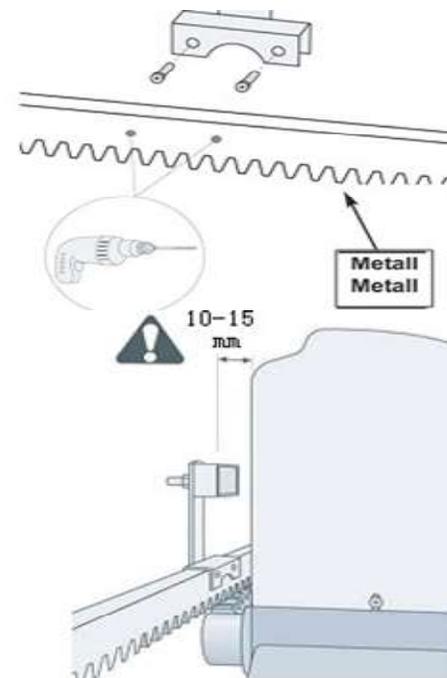
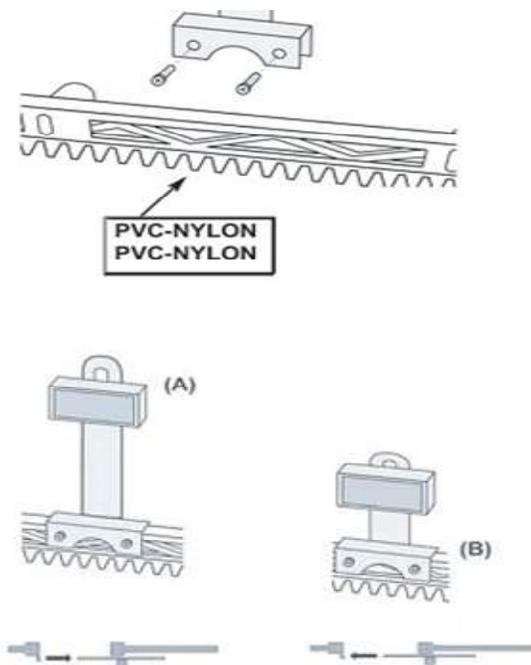


Fig.5 Magnetic Limit Switch



Fig.6 Spring Limit Switch

For wiring, see Fig.7

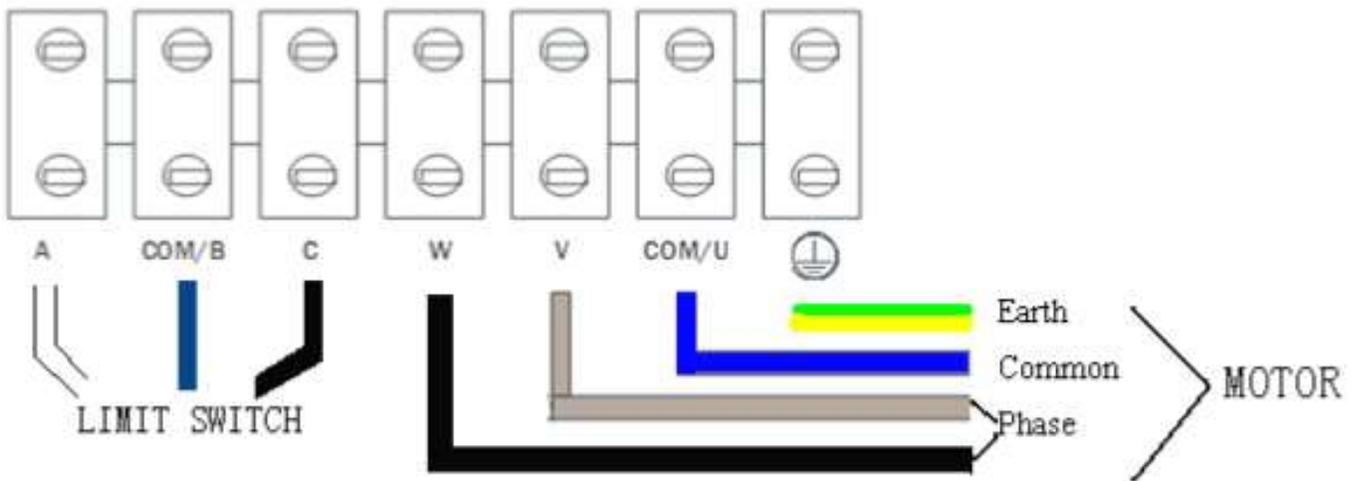


Fig.7

Energizing and Trial Run

1. Before use, check the power supply voltage, frequency and the other data carefully and make sure they are in line with the requirements, and check if the ground wire is in good condition and the electrical wiring is correct.
2. A special key is provide along with the shipment of the door opener. Turn the key counterclockwise (to disengage the clutch), push the sliding door and let the door opener to operate without load. If the door opener works properly, then turn the key clockwise (to engage the clutch).
3. Turn on the power, start the door opener, and observe the sliding operation of the sliding door.
4. Adjust the magnet's position until the door is able to open and close in positions to your satisfaction.

Care and Maintenance

1. Apply some anti-rust grease to the end of the worm gear spindle located inside the hole of the special key.
2. Check frequently if the electrical grounding is in good condition.
3. Check frequently if all parts and components are in good condition.
4. The device uses advanced lubricant that requires no replacement or replenishment.

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INSTRUCTION MANUAL

Read carefully

Introduction of Item Function:

In order to enable the installation and testing easier and convenient, we developed the intelligent type of self-study sliding gate opener controller. Which applied the imported micro-computer chip. It features digital control, versatile functions, safety, and simple installation and testing.

Product Features

- 1、 The gate will slowly travel to the limit position at first operation, avoiding the inertial over-limit.
- 2、 Anti-collision design: When the motor travel is completed, only after press the reverse button, the motor can be activated so that the over-travel can be avoided. Note: There have power-off hold function when the motor touched the limit; it will be reverse action when power on.
- 3、 **Configuring the Hall Element, When magnets are installed, they are divided into the south and north poles (so the magnet can attract each other while being amounted). You can ignore their position. The motor would stop when it should be only if the motor movement and travel input light are same color. If the direction is wrong, you can change the direction via red dip 8.**
- 4、 Motor time protection: Avoid long time operation of the motor when travel failure, The controller can automatically learning the motor working time, which is ten seconds longer than the traveling time without set up manually, it will automatically saved after the motor complete working several times.
- 5、 Auto-closing function: The time can be adjusted from 1 to 250 seconds.
- 6、 Motor force adjustment: Available.
- 7、 Motor slow speed adjustment: Can adjust the thrust when motor running at slow speed.
- 8、 Resistance rebound function: Can adjust the obstruction by potentiometer.
- 9、 Top confidentiality controller has remote control function, which keep the long distance and anti-interference. The code number is amount to 400 million combination and impossible to break because of using the most advanced jump coding technology, more safe and confidential than the traditional one.

(1) Working power supply 220V±10%

(2) Max. Output current: 10 A

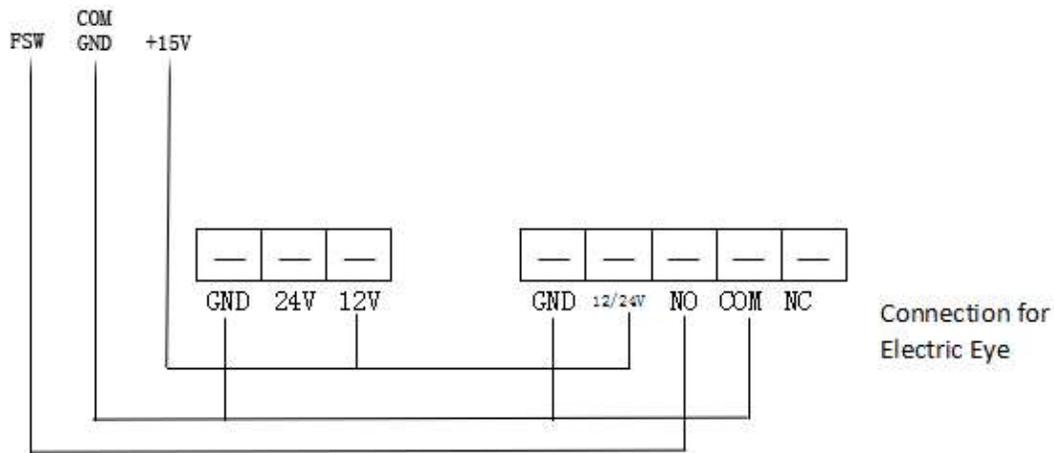
(3) Fuse: AC220V 10A

(4) Remote distance: >30m

(5) Working temperature range: -25℃~+75℃, relative humidity: <60%, no freezing dew

Red Dip Switch Function:

- 1、 Remote single key
- 2、 None
- 3、 Auto close function
- 4、 Soft stop function
- 5、 Max.start force
- 6、 Function setting
- 7、 Resistance rebound function
- 8、 Motor direction, turn on this switch will change the motor and limit direction at the same time



Add and Delete Remote Control

1. Add remote control

Release your hand after press STUDY key for 1 second , then press any button on remote, finished when you hear a sound then release your hand. Repeated above operation when you need add more remote control.max. remote control you can add is 300 pieces.

2、 Delete remote control

Press STUDY key for 8 seconds, release your hand after hear a sound, delete all the remote control.

3、 Remote control single key control:

when the Red Dip Switch1 in ON position,the remote control is single key circulation mode, open -stop-close circulation

4、 Remote control three keys control

when the Red Dip Switch1 inOFF position, the remote control is three keys control mode.

Function Operation

1、 Remote single key control B1 (Red DIP switch 1)

Red Dip Switch1 in ON position, the remote control is in single key circulation mode

Red Dip Switch1 in OFF position ,the remote control is in three keys mode

2、 Motor direction conversion B2 empty (Red DIP switch 2)

3、 Auto-closing function B3 (Red DIP switch 3)

Red Dip Switch 3 in ON position, with auto-closing function.

When motor open to the open limit,start closing time counting.

Auto Close Time setting:Turn onRed Dip Switch 3 and Red Dip6 to ON, Press function key

(F), one time one second, after setting, turn Red Dip Switch 6 to OFF, and Red Dip switch 3 still in ON

4、 Slow speed function B4(Red DIP switch 4)

Red Dip Switch4 in ON position with slow speed function, it will auto learn the travelling, and do not need manually setting. When power on for the first time, press remote control ,motor will be move to the limit slowly, and then press the counter-direction, motor will be fast and then slow speed to the limit. Repeat this steps 2 times with remote control, after hear DI sound, travel setting is finished. Do not stop the motor during the process of setting.

(Note:It can adjust the slow speed thrust by MT knob if motor thrust not enough. Motor slow position is fixed, about 20cm.)

5、 Max.force startingfunction B5 (Red DIP switch 5)

Red Dip Switch 5 in ON position with max.force starting. If the door is heavy and can not start by soft start, it can turn on Red Dip switch 5 to on, make the door starting, but this will increase the noise from door starting.

6、 Function setting B6 (Red DIP switch 6)

RED Dip Switch 6 in ON position ,can set the function of the remote single key control and auto closing time and so on ,it needs to turn to OFF after finished the setting.

7、 Resistance rebound function B7 (Red DIP switch 7)

RED Dip Switch 7 in ON position with resistance rebound function.

Functional optimal adjustment scheme:Set the resistance potentiometer to minimum, then gradually increase clockwise to find a point of appropriate force. The force cant too small and too big.

8、 Motor direction conversionB8 (Red DIP switch 8)

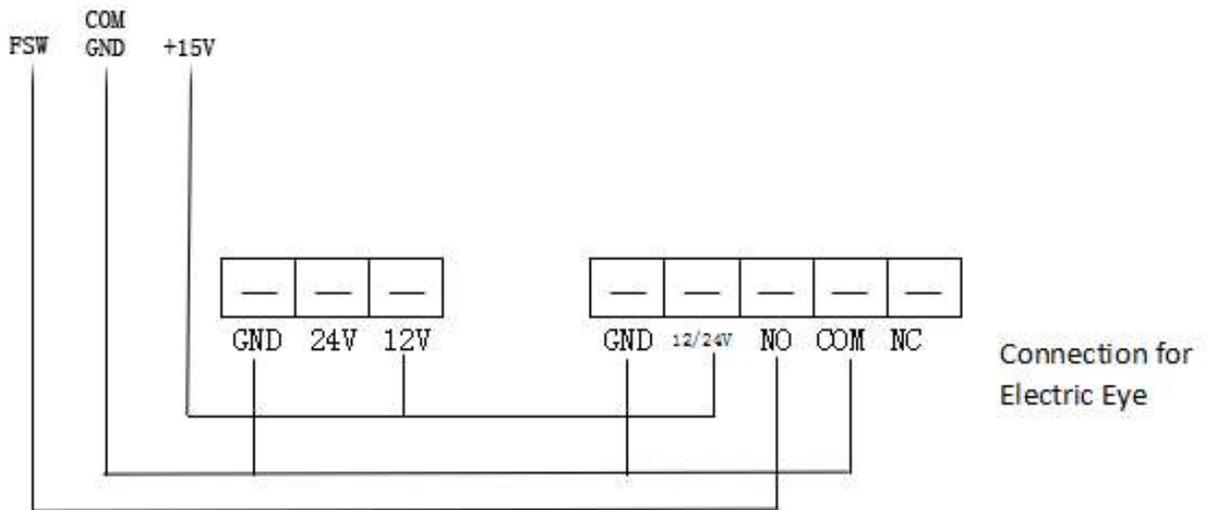
When the gate traveling direction and limit are in correspondingposition , the gate is not in limit position and do not have movement, just turn red dip switch 8 to change the direction, others do not change.

Loop Detector

Three states of Loop detector input:

- 1、 When the gate is closing, there is loop detector signals input. The gate will reverse to the opening position. Then the gate will close after 2 seconds delay
- 2、 When the gate is opening, there is loop detector signals input, the motor continues to running, the gate will close after 2 seconds delay when the opening travel is over.
- 3、 When the motor touched the limit, and the gate will close after loop detector signal input two seconds

Usage of IR sensor



During closing, when IR sensor is interrupted, the motor will stop immediately and reverse to the opening position.

Optional Accessories

1、 Warning light

Motor can be connect with AC 220V warning light

2、 Emergency stop switch

During motor working, the gate will be stop immediately when press this button

3、 Manual switch

Troubleshooting Methods

| Failures | Reasons | Methods |
|--|--|---|
| Control board No reaction | 1. Is it power on | 1. Check power supply |
| Press the remote but the gate not move | 1. If the remote control coded 2. Remote control battery no power | 1. Reference the manual of add remote control 2. Replace the battery with same model. |
| The remote distance is too short | 1. The batteryPower shortage 2. The same frequency interfere the remote control | 1. Replace the old battery with the new battery 2. Find out the source of interference,suppress interference |