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GIANT ALARM SYSTEM PYM-A2201-JX-EGB-02 Automatic Sliding Gate Opener User Manual

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Automatic Sliding Gate Opener

User's Manual

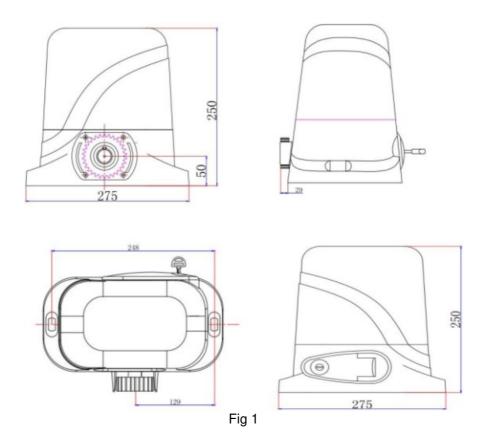


V1.1.1

1. Summary

This equipment is one of the auto gate openers launched by our company adopting a new design and integrated control system. Our new sliding gate opener has many features such as: low noise, light weight, powerful starting torque, stability, reliability and is compact and stylish. The motor will still work for a short period of time using lower voltage. The control board has overload protection. When there is a power failure, the motor drive can be separated by the use of the clutch, by using the specified key the user has the ability to disconnect the clutch enabling the gate to be opened or closed manually. Using the optional infrared photocells the gate will automatically stop and re-open if an obstacle is sensed.

2. Appearance and dimensions



3. Parameters

- 1. Working temperature of motor -25°C ~ +55°C
- 2. Working humidity ≤85%
- 3. Power supply 220VAC±10%/110VAC±10% 50Hz/60Hz
- 4. Rated power 60W
- 5. Output gear module M=4
- 6. Output gear number Z=16
- 7. Output torque: 16.0 N.m
- 8. Open(close) speed v=12m/min
- 9. Rated speed 1400RPM
- 10. Maximum pull 1100N
- 11. Maximum load 600KG
- 12. Net weight 11KG
- 13. Remote control distance: ≤50meter
- 14. Packing: In a standard carton
- 15. Protection Class: B

4. Features of sliding gate opener

- 1. Stylish appearance design and built-in control panel integrated inside the mechanism, no external controller or receiver needed.
- 2. Built in limit switch allowing the motor to switch off once the cycle is finished
- 3. Built in manual override with 2 supplied unique override keys in case of emergency or power failure.
- 4. The motor is constructed of all metal gears make it durable and long lasting.
- 5. Pedestrian mode.

- 6. Condominium mode.
- 7. Overcurrent value and auto-closing delay time adjustable
- 8. Stop/Reverse in case of obstruction during gate opening and closing.
- 9. Easy installation, firm and solid structure, stable and reliable driving, permanently lubricated, maintaining-free.
- 10. Single-phase self-lock, anti-pushing, anti-lifting, safe and reliable.

5. Installation of mechanical parts

5.1 Installation of motor

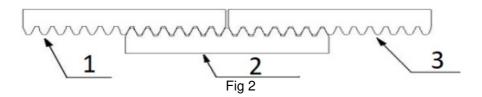
- 1. Depending on the installation size of the motor and mounting height of racks, after determine the installation position of the motor base plate. Install the motor on proper position, and then fixed in that place.so that the motor can open the gate normal and operation.
- 2. If the rack has been installed on the door, the motor can be fixed on the base plate use a Allen key rotation to the clutch "off" position, the motor and the gear rack so as to better determine the position of the motor base plate, then remove the motor and fixed base plate.

5.2 Installation of gate opener

- 1. Let the sliding gate opener put on the base plate. use a random matching hexagon screw make the motor fixed on the base plate.
- 2. Unscrew the screws fixed the motors cover, and then remove the motor cover. According to the electrical wiring diagram, connected the power cord, after adjust in good position, Then install cover and use screws to fixed it.

5.3 Installation of racks

- 1. After the motor is installed, the racks teeth the down, then put the gear on the motors. and final connected with screws and gate. push the door with hand.so can let door sliding it and can move it without any problem. after confirmed, fixed the racks.
- 2. Rack is usually unit assembly, in order to avoid gate run jitter or jammed, rack and joint clearance must be corrected. Suggest use this way, see fig 2. With a small correction of the rack, after connecting right with racks 1 and racks 2, then fixed racks 1 and 2.



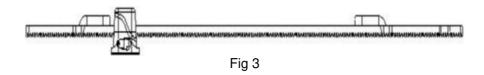
- 1. Rack 1
- 2. Correction of the rack
- 3. Rack 2

5.4 Installation of imit levers

There are 2 limit levers supplied. Note there is a left hand and a right hand lever. The levers should be installed one at either end of the rack. See Fig 5.

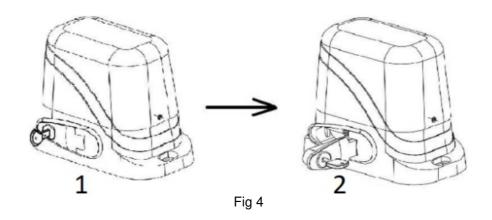
To install the levers in the correct position, open the clutch door and press the 'CLOSE' button on the remote, the motor will run but will not drive the gate. Close the gate manually and adjust the limit lever to contact the toggle switch and switch the motor off at the desired gate position. To adjust the stop position of the gate when it is open, press the 'OPEN' button, manually open the gate and adjust the other limit lever to contact the toggle switch and switch the motor off.

When you are satisfied the levers are in the correct positions, tighten the screws in the levers to clamp them to the rack, close the clutch door and using the remote control check the gate opens and closes to the desired positions. Adjust the limit levers if necessary.



5.5 Function of clutch

When the clutch is opened to the open position, you can manually push the door; when closing the clutch, electric door can run on, off, when touching limiting the bezel will stop automatically.



- 1. Insert key, rotate 90 degrees CW
- 2. Releasing arm in torsion, wriggle 90 degrees, gate operator will be in releasing state.

6.Control board

6.1 Technical parameters

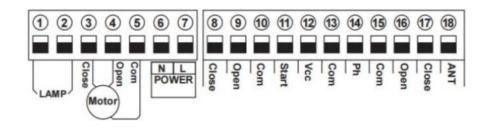
1. Power supply: 220VAC±10% / 110VAC±10%

2. Application: AC sliding gate opener

3. Remote control: Giant customized rolling code

4. Remote control memory: max support 100pcs

6.2 Terminal and Buttons instruction

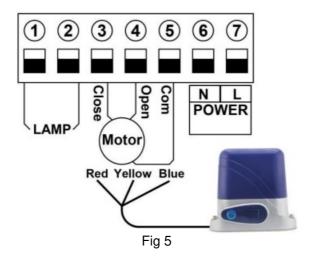


1&2. Lamp: used for connecting with flashing light, output voltage is AC 110V/220V.

- 3&4&5. Motor: used for connecting with sliding gate motor's wire.
- 6&7. Power: used for connecting with AC 110V/220V power.
- 8. Close(Limit): used for connecting with extra gate closing direction limit signal.
- 9. Open(Limit): used for connecting with extra gate opening direction limit signal.
- 10. Com: used for connecting with COM terminal or GND.
- 11. Start: It is a single button control mode switch for controlling the gate by "open stop-close stop open" cyclically.
- 12. Vcc: DC 12V output used for connecting with external devices, max 200mA.
- 13. Com: used for connecting with COM terminal or GND.
- 14. Ph: used for connecting with the photocell sensor.
- 15. Com: used for connecting with COM terminal or GND.
- 16. Open: connect with any external devices that will operate to open the gate.
- 17. Close: connect with any external devices that will operate to close the gate.
- 18. ANT: antenna connection.
- 19. LEARN button: It is for programming/removing the remote control.

6.3 Control board wire diagram

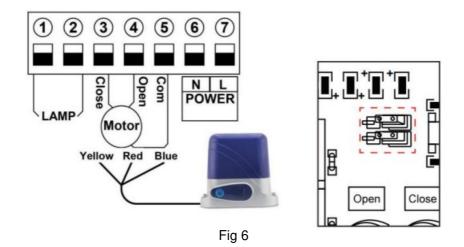
· Install the motor on the right-hand of gate



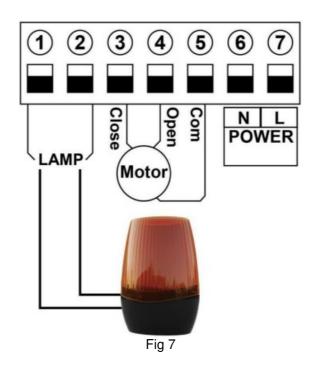
Terminal ③, ④ determines the forward and backward direction of the motor Terminal ⑤ is for connecting with Com(GND)

· Install the motor on the left-hand of gate

When you want to install motor in the left of gate, please exchange ③ and ④ motor wire. Then adjust the jump switch J1 position from No 1 and No 2 to No 2 and No 3, and swap the limit switch connector wires on the limit switch. Please reference the part of 7.6 and 7.7 contents.

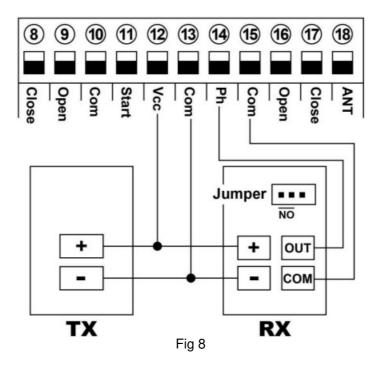


Connect with flash lamp



Terminal ① and ② are for connecting with the flash lamp.

Connect with safety beam



Connect terminal with the "COM" of photocell RX.

Connect terminal with the "OUT" of photocell RX.

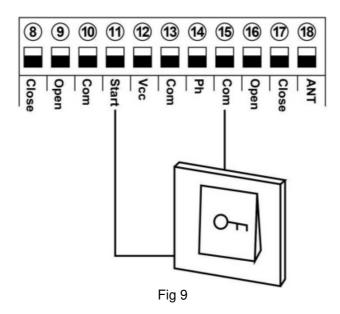
Connect terminal with the "OUT" of photocell RX and TX.

Connect terminal with the "-" of photocell RX and TX.

Connect with start terminal

Start terminal is used for connecting with some external devices, such push button, swipe card, wired keypad, receiver etc.

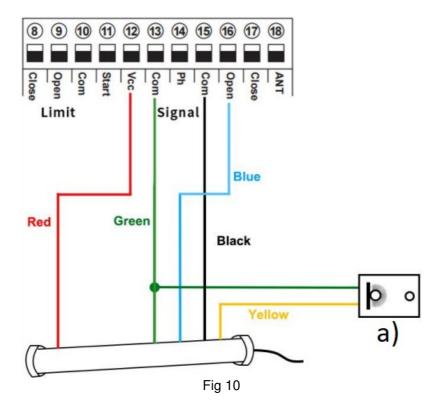
Control gate by "open-stop-close-stop-open" mode



Terminal and are for connecting with the push button.

Note! If you connect the swipe card or wired keypad, etc devices, please also connect with Vcc and Com to get the power supply.

Connect with open gate device (Loop detector, swipe card, etc)



a) Range Adjustment Board

Loop detector wire information:

Definition of the 5 -core cable:

RED →Input Voltage (+)

GREEN →Ground/Common (-)

BLACK →Relay's Common

BLUE →Relay's Normally Open

YELLOW →Range adjustment potentiometer (POT)

· Loop detector wire diagram:

Red wire: connect with terminal .

Green wire: connect with terminal and range adjustment board.

Black wire: connect with terminal . Blue wire: connect with terminal .

Yellow wire: connect with range adjustment potentiometer.

7. Function testing

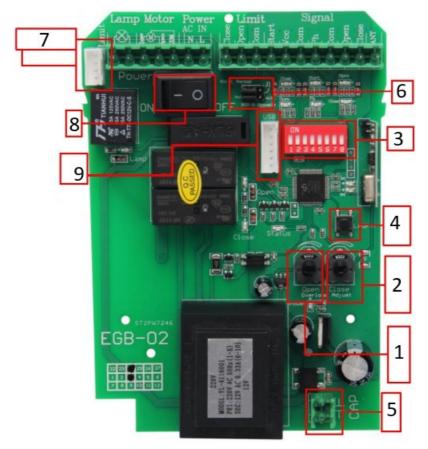
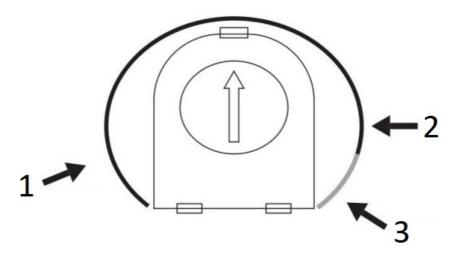


Fig 12

- 1. 7.1 Open gate overcurrent setting
- 2. 7.2 Close gate overcurrent setting
- 3. 7.3 Dip switch of function setting
- 4. 7.4 Program / Erase remote control
- 5. 7.5 Motor start capacitors
- 6. 7.6 Adjust limit switch direction
- 7. 7.7 Limit switch terminal stop detection
- 8. 7.8 Power On/Off
- 9. 7.9 USB upgrade the software system

7.1 & 7.2 Open/Close gate overcurrent setting



- 2. Low overcurrent
- 3. Overcurrent invalid

There are 2 potentiometer for "OPEN/CLOSE overcurrent adjust to set the open and close overcurrent value separately.

Rotate the potentiometer with clockwise direction to increase the overcurrent value, counter-clockwise to decrease the value.

A. High overcurrent: when the motor is running, will meet some minor overcurrent, then control board will send a signal to let motor stop.

- B. Low overcurrent: when the motor is running, will meet bigger overcurrent, then control board will send a signal to let motor stop.
- C. As picture show, when pointer rotate to gray part, the overcurrent detecting is invalid.

Note:

If the overcurrent value is too low, the gate will stop or reverse very easily while there is no obstruction, or if there is additional overcurrent as strong wind, rain or snow.

Otherwise, if the overcurrent value is setting too high, some impacts may not be detected, and injury or damage could occur.

7.3 Function setting by dip switch

A. Dial-up 1: Limit mode optional OFF: NC mode(Factory setting)

ON: NO mode

Limit switch for opening and closing gate direction setting(J1):

Normal :Short circuit cap simultaneously No1 and No2 of J1 (Factory setting)

If the motor system install in the left of the gate. Please adjust the J1, short the cap simultaneously No2 and No3.

B. Dial-up 2: Safety beam mode

OFF: NO mode(Factory setting)

ON: NC mode

- ✓ Please don't remove the copper wire, if you don't install the safety beam, it will cause the gate can not be closed.
- ✓ If the gate connects with a safety beam, please remove the copper wire from the safety beam terminal in the control board.

While it meet obstacles during closing, it will stop and rebound to open. After the gate move to the open position, after 2 seconds the gate will auto close again if the obstacle signal disappear. If not, it will not auto close until the obstacle signal disappear.

C. Dial-up 3 &4: Auto close time setting

Auto close function activated after gate complete open to its place and stop by limit switch.

Dial-up 3 &4, OFF-OFF: Auto close function disabled(Factory setting)

Dial-up 3 &4, ON-OFF: 10S Dial-up 3 &4, OFF-ON: 30S Dial-up 3 &4, ON-ON: 60S

D. Dial-up 5&6: Auto-closing timer for swipe card terminal triggering

When remote control triggers the pedestrian mode (remote control button 2 or 4), the gate will stop after open 6s. If auto close function activated, the gate will auto close after gate open to 6s. Auto close time setting as follows Dial-up 5 &6, OFF-OFF: Auto close function disabled(Factory setting)

Dial-up 5 &6, ON-OFF: 5S

Dial-up 5 &6, OFF-ON: 10S Dial-up 5 &6, ON-ON: 30S

Note:

- 1. When the motor is running, the motor will stop immediately if triggers pedestrian mode
- 2. After triggering the pedestrian mode to open the gate for 6s, no mater it enter the countdown to close the gate or stop status, If trigger again, the gate will close the gate immediately.

E. Dial-up 7: Condominium mode setting

OFF: Condominium mode disabled(factory setting)

ON: Condominium mode activated

When the gate is opening, trigger remote control and the start interface are invalid until the door is opened. When the gate is closing, trigger remote control and the start interface, the gate will stop to close and auto open until the opening limit is reached (the remote control and the start interface are invalid when the gate is opening).

F. Dial-up 8: Remote control buttons mode

OFF: Single button control circularly

First button control gate open, stop, close, second button use for pedestrian mode

ON: Three buttons control

First button control gate open, second button control gate close, third button control gate stop, fourth button use for

pedestrian mode

Note: Please choose the remote control mode firstly before remote control code clearing to control board

7.4 Program and erase remote control

The control board can memory more than 100 pcs remote control.

- **Program the remote:** Press the learn button for at least 1 second and then release, the LED indicator will light on. Now user needs to press the button on the remote control, with the learn button indicator LED flash twice, which means the code learning is successful.
 - After the user presses the learn button, within 6 seconds, if the controller doesn't receive the signal from the remote, the controller's LED indicator will turn out and exit the code learning statute.
- Erase the remote: Press and hold the learning button for 6 seconds, while the learn button indicator LED light on and flash twice, release the button. Now all remotes can not control the gate.

7.5 Motor start capacitors

Capacitors are connected with control board before use motor, please confirmed the interface of capacitors is secure.

7.6 Adjust the limit switch stop direction (J1)

Limit switch is used to switch terminal stop detection interface, that direction of open and close the gate.

- Factory defaults the motor would be installed in your right-hand direction, and the jump switch J1 position located in the No 1 and No 2, then the motor will take the gate open from left-hand to the right-hand.
- Otherwise, if you install the motor in the left-hand, and request the motor to take the gate open from right-hand to left-hand, please adjust the J1 position from No 1 and No 2 to No 2 and No 3.

Terminal for connecting with the limit switch, such as spring limit or magnetic limit.

Open gate from left-hand to right-hand: Factory defaults the J1 is located in the No 1 and No 2 position. At this time, the uppermost signal of the limit switch interface is the close limit signal, and the lowermost signal of the limit switch interface is the open limit signal (the wiring terminals of the board are facing upwards).

Open gate from right-hand to left-hand: please adjust the J1 position to No 2 and No 3. Now the uppermost signal of the limiter interface is the open limit signal, and the lowermost signal of the limiter interface is the close limit signal (the standard direction is that the wiring terminals of the board face upwards). **So the user also need to swap the top and bottom wires on the limit switch.**

7.8 Power switch

Switch on /off power stop when the user plan to adjust the parameters on the control board.

7.9 Upgrade control board system by USB device

Power off the control board, set up the U disk and upgrade files as required, install the U disk upgrade module in the USB port on the control board, press and hold the Learn button, power on the system, release the button after 3 seconds, the UP1 and UP2 indicators flash quickly to enter the program upgrade burning interface, and the system will automatically restart and enter normal operation after the upgrade is successful.

Status indication description:

- 1. The UP1 and UP2 indicators flash alternately, indicating that the firmware is being upgraded and written to the chip.
- 2. The UP1 light is always on and the UP2 light is off, indicating that the U disk mode initialization failed. Please check whether it is plugged in properly.
- 3. The UP1 light is off and the UP2 light is always on, indicating that the U disk reading failed. Please check whether the U disk is connected or re-plug the U disk.
- 4. The UP1 light is always on and the UP2 light is always on, indicating that the upgrade file reading failed. Please check whether the firmware file to be upgraded is stored, or the file naming does not match.
- 5. All upgrade files of this series are named EGB-02.BIN.

Note:

- 1. You must use our U disk module (EG-USB).
- 2. The USB flash drive used for the first time needs to be formatted as FAT32. After the upgrade, the original RF pairing data and menu setting data are still there.

8. How to operate your gate opener

Each remote has 4 buttons, there are two remote control modes for optional. The factory setting is a single-button control mode. If you want to change to use the three-button control mode, please reference the data set of dip switch 8.

• Single button control mode: the 1st remote button is used to control the gate as "open-stop-close-stop", the 2nd

button is used to control the PED mode.

Then if needed, the 3rd and 4th button can be programmed into another gate opener controller, same function as the 1st and 2nd button.

• Three-button control mode: remote 1st button to control gate open, 2nd button to control gate close, 3rd button to control gate stop. 4th button to control gate PED mode.

9. Maintenance

- 1. The rack and drive gear should be kept clean. Do not attach any objects to the gate that may interfere with the rack or drive gear.
- 2. Should frequent clean the sundries on the magnet limit.
- 3. Lubricate all moving parts every 3 months.
- 4. If the control board is fitted with an optional back up battery, check the condition once a month and replace if necessary.
- 5. Check power cables and conduit have not been damaged.
- 6. During heavy rainfall or light flooding ensure the motor housing has had no ingress of water.

10. Trouble shooting

Problem	Possible causes	Repair method
Gate fails to operate	Check the clutch states, power-drive n state or not?	1. Recovery
	2. Power no indication, and power trip.	2. To restore power
	3. The fuse has broken	3. Change the fuse
	4. Remote control failure or invalid	4. Detection or change
	5. Damaged power cable	5. Detection and Repair
	6. Remote control or motor problem	6. Detection and Repair
Working distance of remote c ontrol reduced	Low battery power or damaged	Replace battery
	Interference from equipment using the same frequency	2. Wait eliminate interference
	3. The receiver of controller was dama ged	3. Replace the control board
Gate fails to stop at start or e nd position	The terminal stop toggle switch is da maged or obstructed.	Replace toggle switch or remove o bstruction
	2. Limit switch of the motor and the limi t detection of the interface PCB board plug off.	2. Insert and fixed it
	3. Limit of open and close is in wrong p osition.	3. Adjust of limit switch(J1)
Press open and close key of motor, but cant working and o perate	Overcurrent value is setting too high (set too bigger)	Decrease the overcurrent value, an d check gear and racks can operate n ormally.
	2. The gate has lifted off the track and disengaged the drive gear from the rac k	2. Maintenance and replace.

Documents / Resources



GIANT ALARM SYSTEM PYM-A2201-JX-EGB-02 Automatic Sliding Gate Opener [pdf] User Manual

PYM-A2201-JX-EGB-02 Automatic Sliding Gate Opener, PYM-A2201-JX-EGB-02, Automatic Sliding Gate Opener, Sliding Gate Opener, Gate Opener

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