

Arm swing gate opener

User manual

DC24V

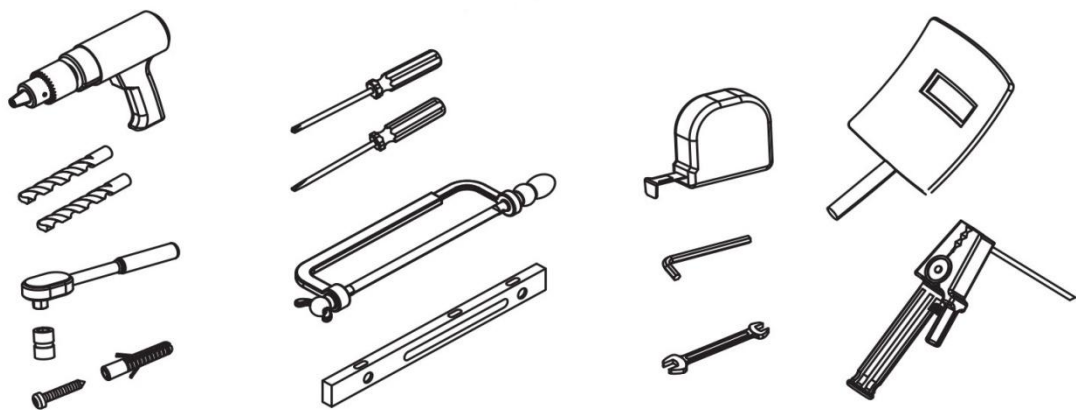


Please read this manual carefully and keep it safe

Note

- Please read the instructions carefully before installation.
- This product must be installed by a professional.
- Disconnect the power supply before installation or maintenance.
- Before installation, please make sure that the gate can be opened and closed smoothly, and the size and weight of the gate meet the specifications of the gate opener.
- Do not allow children to operate or play near the door opener.
- Do not use the remote control when the door is out of sight.
- If the product fails and cannot be solved and these problems are not mentioned in the manual, contact a qualified installation personnel to check and handle the problem.

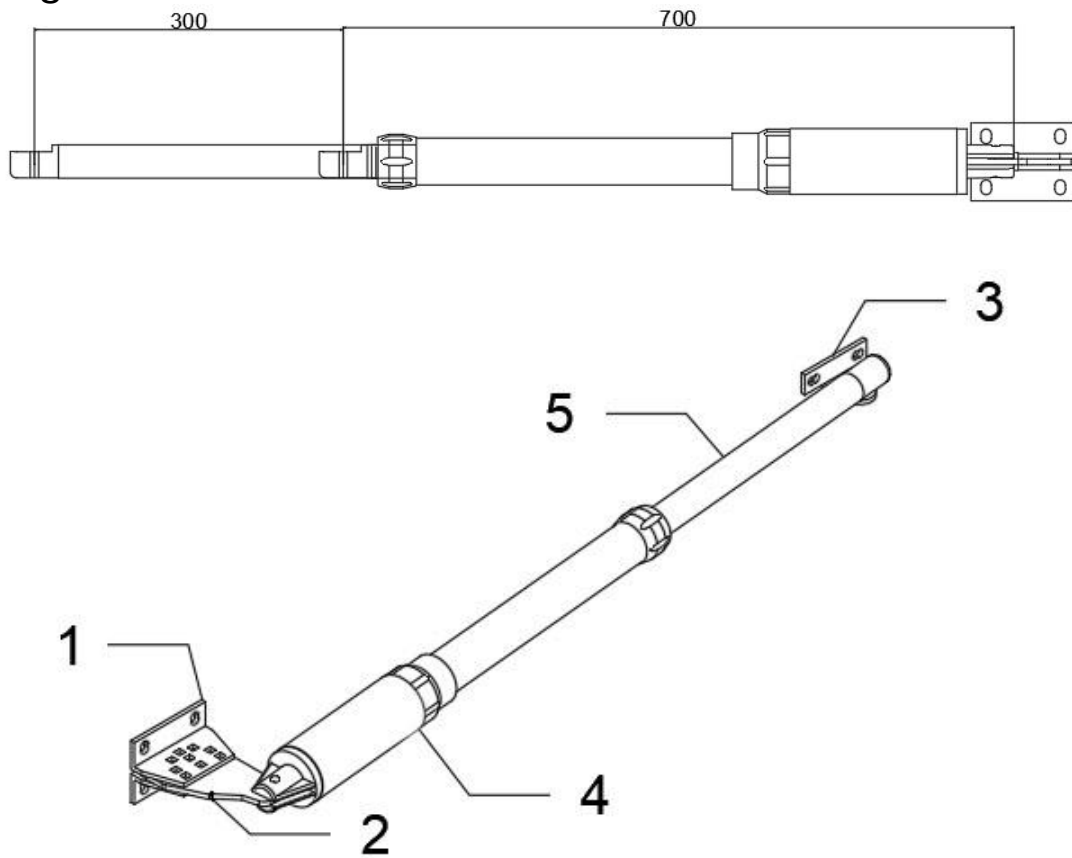
I .Install required tools



II .List of products and accessories

 2PCS	 1PCS	 2PCS
 2PCS	 2PCS	 2PCS
 2PCS	 2PCS	 4PCS
 4PCS	 8PCS	 1PCS

III .Motor diagram

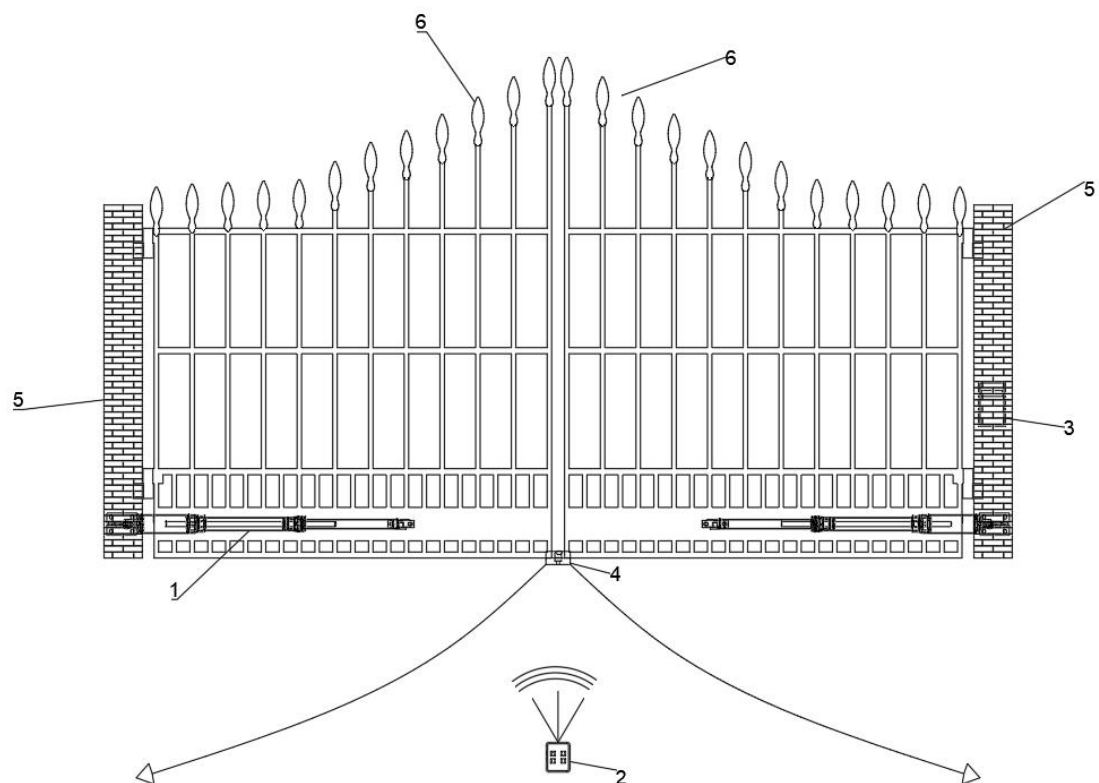


1: Gate pillar fixing bracket 2: Motor connection plate 3: Gate body retaining bracket 4: Motor gearbox 5: Telescopic arm (300 mm)

IV.Motor parameter

Item NO.	SW220	SW300
Power supply	220V/110V	220V/110V
Motor power	24VDC 40*2	24VDC 60*2
Motor speed	290RPM	220RPM
Max single leaf width	2.5M	3.0M
Max single leaf weight	220KG	300KG
Working temperature	-30°C~+50°C	-30°C~+50°C
Protection class	IP54	IP54

V. Installation diagram



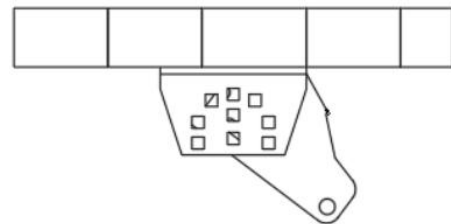
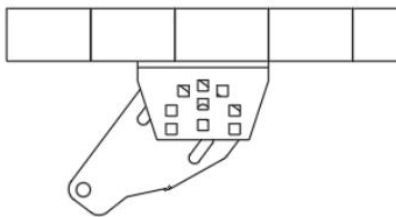
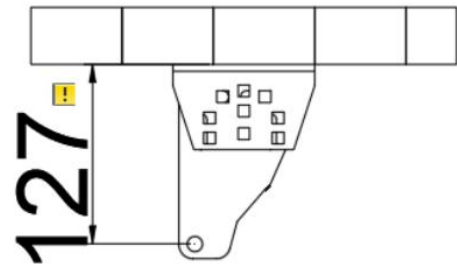
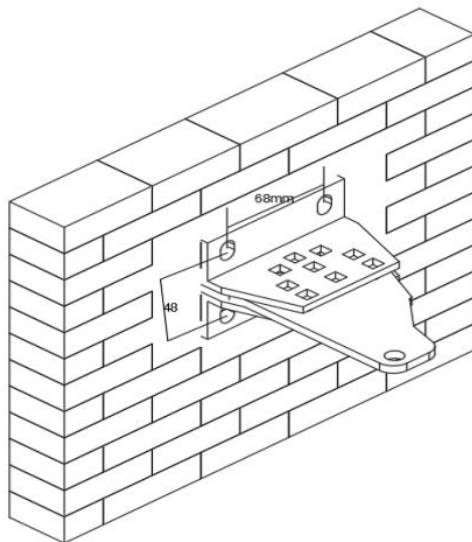
1: Motor 2: Remote control 3: Control box 4: Rubber stopper
5: Gate pillar 6: Gate body



VI. Installation reference for door pillar bracket

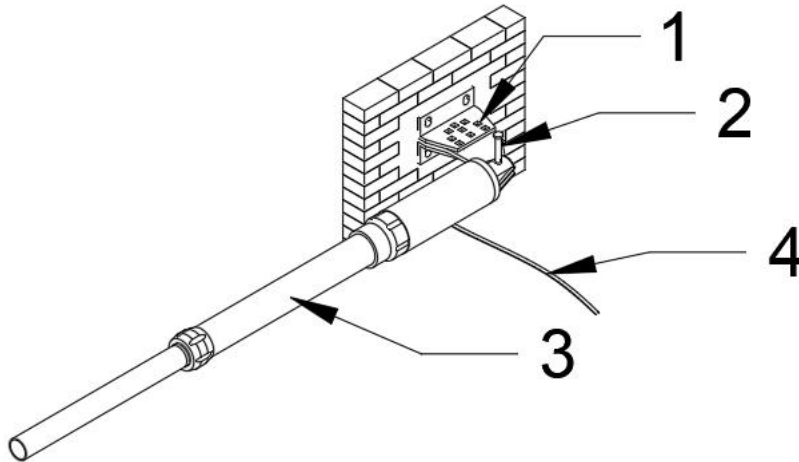
Note: Please adjust the installation method according to the actual situation

1. Mark the position to be drilled on the gate pillar and drill 4 holes with a diameter of 14 millimeters.
2. Insert 4 concrete bolts and tighten properly.
3. Adjust and locate the installation position between the gate pillar fixing bracket and the motor connecting plate.
4. Weld the motor connection plate to the gate pillar fixing bracket.



VII. Installation of motor gearbox

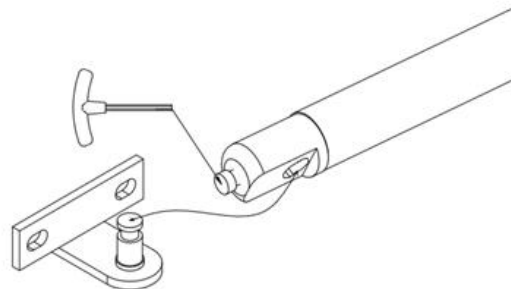
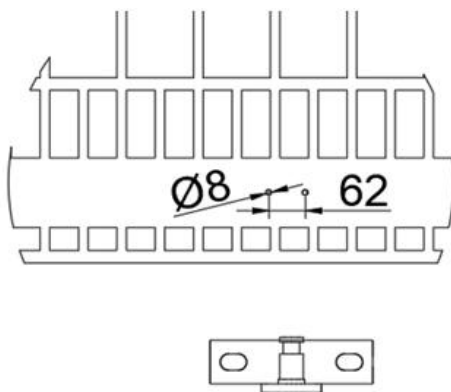
1. Make sure the power supply is not connected.
2. Insert the locking pin to secure the motor gearbox to the motor connecting plate.



1: Gate pillar fixing bracket 2: locking pin 3: Motor 4: Power cord

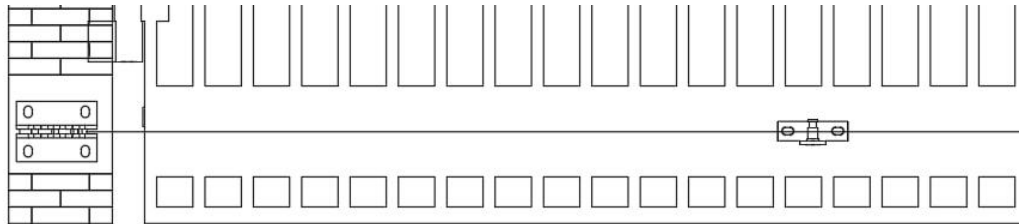
VIII. Motor telescopic arm installation

1. Drill two holes with a diameter of 8 mm in the corresponding position of the gate body and the telescopic arm, and the spacing between the two holes is 62 mm.
2. Install the gate body fixing bracket onto the gate body.
3. Loosen the screw at the end of the telescopic arm with the clutch key.
4. Insert the telescopic arm into the door body fixing bracket and lock the screw with the clutch key.



IX.Height of support

Before installation, it is necessary to ensure that the height of the gate pillar fixing bracket is exactly the same as that of the gate body fixing bracket, otherwise the motor will not run or even be damaged

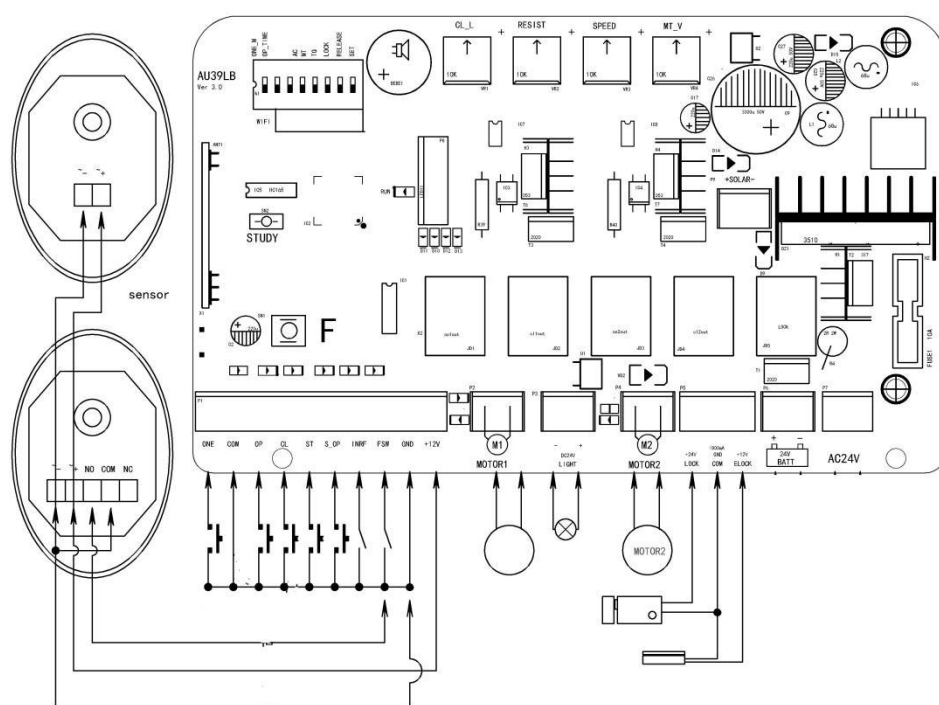


Instruction Manual of Intelligent Controller

I. Description of Electrical Functions

1. Power: DC24V, or external 24V rechargeable battery.
2. Application: Pull-arm sliding gate operator.
3. Motor Requirements: 24V DC single machine X2, single motor power <80W.

II. Diagram of Electrical Connection



III. Description of Ports

1. Single key cycle (ONE): Double gate control button; cycle control of open-stop-close-stop-open. (Note: the function will only perform once by long pressing).
2. Common (COM): Common grounding port.
3. Open (OP): Double gate control button to open the gate only. Can be used to connect the signal of the card swipe.
4. Close (CL): Double gate control button to close the gate only.
5. Stop (ST): Double gate control button to stop only.
6. Single Open (S_OP): Only can open the gate operator 2.
7. Vehicle detector input (INRF): When the gate is closed but there is a signal input, it will execute the gate opening action, and close the gate after opening to stroke with a delay of 2 seconds.
8. Infrared anti-pinch signal input (FSW): Infrared resistance port, low-level effective. When the gate is closed but there is a signal input, it will execute the gate opening action.
9. Power negative (GND).
10. Power positive (+12V): DC12V regulated output, continuous output current $\leq 200\text{mA}$.
11. Motor 1 (MOTO1): Connect motor 1, connect to close the gate first or the gate machine installed with a thrust plate.
12. Alarm light output (LIGHT): 24V light output, with maximum allowable current output of 1A.
13. Motor 2 (MOTO2): Connecting Motor 2; Connected to the gate machine motor needing single opening.
14. Electric lock (LOCK+/-): Electric lock signal, output / disconnect when opening the gate (mechanical lock / electromagnetic lock), with 24V or 12V power supply output, and maximum allowable current output of 700mA; 24V electric lock is recommended.
15. Battery (UPS +/-): external 24V rechargeable battery, the standby current is 20-50mA with UPS power supply, motor running current is around 6-10A (specific to the actual use situation).
16. Solar panel input (SOLAR): 24V solar panel input; the use of a high power solar panel can improve charging current.

Note: The above voltage outputs are all DC, the output voltage will change with the input voltage, nominal 24V but actual 30-36V output.

IV. Functions of Red Dial Switch

1. **Single motor driving mode.**
2. **Gate opening sequence setting. Toggle up, open the gates open successively in 2 seconds (the interval is adjustable).**
3. **Automatic gate closing (default in 10 seconds).**
4. **Function of opening and closing the gate slowly.**
5. **Rebound resistance function.**
6. **Toggle up is the ordinary electric lock, while no toggle for magnetic locks.**
7. **Pressure release when motor is in place. Default is open.**
8. **Enter function setting.**

V. Remote Control Functions

1. It is possible to control 2 different controllers with the 4 keys on remote control.

A and B control one controller, with the key A controlling movements of two gates, while the key B controlling a single gate movement.

Similarly, C and D control another controller, with the key C controlling movements of two gates, while the key D controlling a single gate movement.

The system supports up to 300 remote controls.

Note: Please perform resetting for the first-time use, otherwise the remote control is unworkable!

2. Add Remote Control

Press the white learning key for 2 seconds and release, then immediately press and hold the key A or C on the remote control, the learning is successful if hear a beep sound.

3. Delete Remote Control

Press and hold the white learning button for more than 8 seconds, the remote control is successfully deleted if hear a long beep.



VI. Function Specification

1. Setting of automatic gate closing:

Users may set the automatic function as needed. When the dial switch 3 is connected to ON, it means the automatic gate closing function is used; when it is connected to OFF, it means the automatic gate closing function is disabled. When the automatic gate close function is enabled, the gate opens to the stroke and performs automatic close delay while the function lamp flashes at 1Hz. When the set time is reached, the controller executes the automatic closing.

Time setting of automatic closing: only dial switch 8 and 3 to ON, then press the key F, press 1 time for 1 second, after setting, dial switch 8 to OFF, while remaining dial switch 3 unchanged.

2. Setting of slow gate opening and closing:

Automatic setting: Make sure that the gate is in the closing position before setting. Toggle the dial switch 8 and 4 to ON, then press the key F to make the gate start automatically, (the first gate is opened -> the second gate is opened -> the second gate is closed -> the first gate is closed), toggle the dial switch 8 to OFF, and the buzzer will beep once, that is, the setting is completed.

Advanced customization to set the time (distance) of slow gate opening and closing:

Make sure that the gate is in the closing position before setting. Toggle the dial switch 8 and 4 to ON, then press the key F to make the gate open, the motor will run automatically, the first gate will open, after 2 seconds of startup, press the stop button on the remote control at the position wanting to open the gate at a slow speed -> the first gate opens to the stroke, the second gate opens automatically, after 2 seconds of startup, press the stop button on the remote control at the position wanting to open the gate at a slow speed -> the second gate opens to the stroke, and then closes automatically, after 2 seconds of startup, press the stop button on the remote control at the position wanting to close the gate slowly -> the second gate closes to the stroke, the first gate closes automatically, after 2 seconds of startup, press the stop button on the remote control at the position wanting to close the gate slowly -> the first gate closes to the stroke. Toggle the dial switch 8 to OFF, the buzzer will beep once, that is, the setting is completed. This kind of setting is available for the slow motor running throughout the whole process.

3. Sequence of gate opening: Only toggle up the dial switch B2 and B8, press the key F, once a second, and then toggle back the dial switch B8 when finishing setting.

4. Sequence of gate closing (potentiometer CL_L): Adjustment of the motor gate closing, which is adjustable within 0-20S.

5. Force adjustment (potentiometer RESIST): Adjustment of motor running force. When the motor is in use, the motor running force is adjustable, so that the gate stops when in large resistance to avoid clipping.

6. Running speed (potentiometer SPEED): Adjust the speed of motor in normal running.

7. Slow speed (potentiometer MT_V): Adjust the motor speed when it enters into slow speed.

8. Reset: When power on, toggle up all the dial switches, and then toggle back.