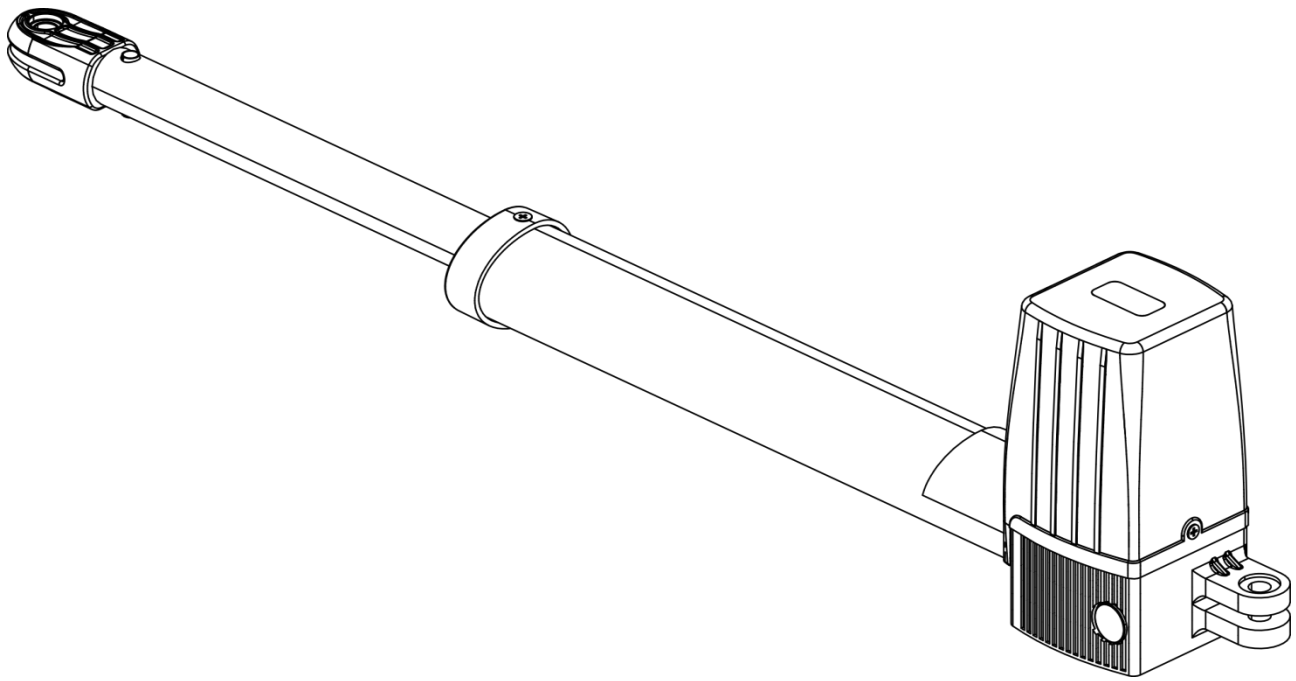
AK300DC/AK350DC
Swing Gate Opener
User Manual



20241105

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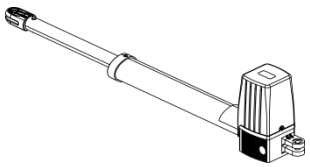
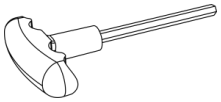
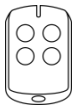
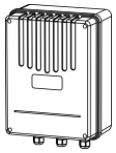
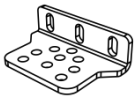
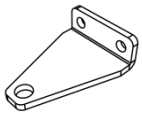
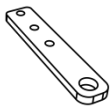
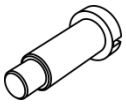
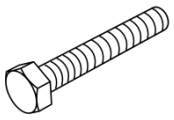
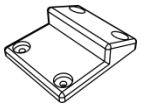
Dear Users,

Thank you for choosing this product. Please read the manual carefully before assembling and using it. If you send this product to a third party, please include the manual.

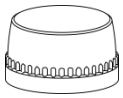
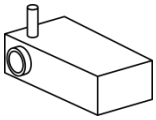
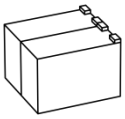
1. Safety Instruction 

- **Read the Manual**: Please read this manual carefully before installation, as it contains important information about installation, usage, maintenance, and safety.
- **Unauthorized Operations**: Any operations not specified in this manual are not allowed. Incorrect use may damage the product or even cause injury or property loss.
- **Installation Standards**: To address potential dangers during the installation or use of the swing gate opener, installation must strictly comply with construction standards and electrical operating procedures.
- **Voltage Check**: Before installation, ensure that the power voltage being used matches the supply voltage of this product. Also, check that a leakage protection switch is installed and the grounding system is correct.
- **Additional Equipment**: Check if additional equipment or materials are required to meet specific requirements.
- **Packaging Disposal**: Dispose of packaging materials in compliance with local regulations.
- **Do Not Modify Parts**: Do not change any parts other than those specified in this manual. Any unauthorized modifications may cause malfunctions, and any damages resulting from such modifications will not be covered by the company.
- **Prevent Liquid Exposure**: Do not allow water or any other liquid to enter the controller or any other open devices. If this occurs, immediately disconnect the power.
- **Keep Away from Heat**: Keep this product away from heat and open flames, as it may damage components, cause failure, or create other hazards.
- **Ensure Safe Passage**: Ensure there are no vehicles, pedestrians, or objects passing through while the swing gate is moving.
- **Anti-Clip Equipment**: Install anti-clip equipment, such as an infrared protection switch, to prevent injury or property damage. The company is not liable for any damage or accidents arising from failure to install this equipment.
- **Professional Installation Required**: Installation, use, and maintenance of this product must be carried out by professionals.
- **Keep Away from Children**: Children are not allowed to touch the control devices or remote transmitters.
- **Warning Signage**: A warning sign must be placed on the swing gate according to national standards.
- **Store Manual for Future Reference**: Please keep this manual for future reference.

2. Packing List (standard)

No.	Components	Descriptions	Quantity
1		Gate opener	2
2		Manual release bar	1
3		Remote control	2
4		Control box	1
5		Wall bracket	4
6		Front mounting bracket	2
7		Connecting bracket	2
8		Mounting screw (short)	2
9		Mounting screw (long)	2
10		Screw M8×25	4
11		Nut M8	8
12		Limit stopper	1

Packing List (optional)

No.	Components	Descriptions	Quantity
1		Infrared sensor	1
2		Wireless keypad	1
3		Alarm lamp	1
4		Electric lock	1
5		Storage battery	2

3. Technical Specifications

Models	AK300DC	AK350DC
Power supply	220V/50Hz;110V/60Hz	
Motor power	80W	
Gate moving speed	18~22 seconds per 90° (approx.)	
Max. single-leaf weight	300Kg	
Max. single-leaf length	2.5M	3.0M
Max. stroke of the screw rod	34cm	54cm
Max. force	3500N	
Remote control distance	≥ 30m	
Remote control mode	Single button mode/Four button mode	
Storage battery (optional)	DC24V (4.5AH or 9.0AH)	
Working noise	≤ 58dB	
Duty cycle	S2, 30min	
Max. number of remote controls	32	
Remote frequency	433.92 MHz	
Working temperature	-20°C - +70°C	
Package weight	15.6Kg	17.2Kg

4. Installation

The AK300DC/AK350DC gate opener is suitable for swing gates with a gate leaf weight of less than 300kg, with a maximum leaf length of 2.5 meters for the AK300DC and 3 meters for the AK350DC. The drive mechanism uses a worm and worm gear system combined with screw rod transmission. This gate opener must be installed within a wall or yard to prevent damage.

4.1 Installation Drawing

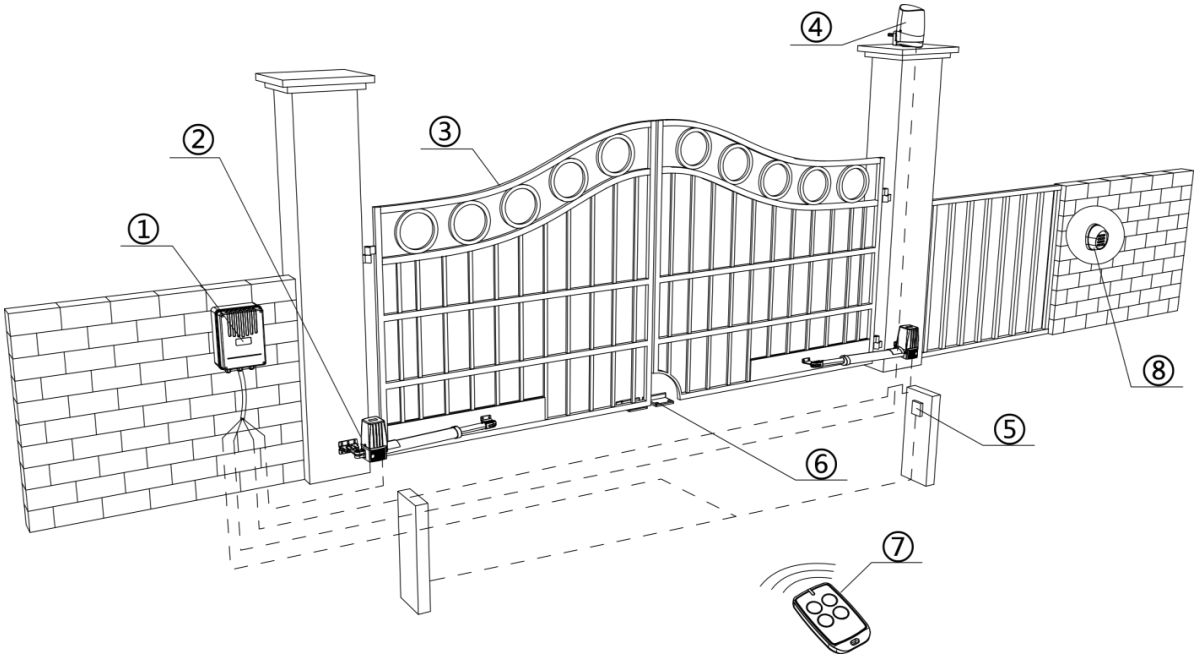


Figure 1

① Control box ② Gate opener ③ Gate ④ Alarm lamp (optional)
⑤ Infrared sensor (optional) ⑥ Stopper ⑦ Remote control ⑧ Wireless keypad (optional)

4.2 Size of Gate Opener and Mounting Bracket

4.2.1 Size of Gate Opener

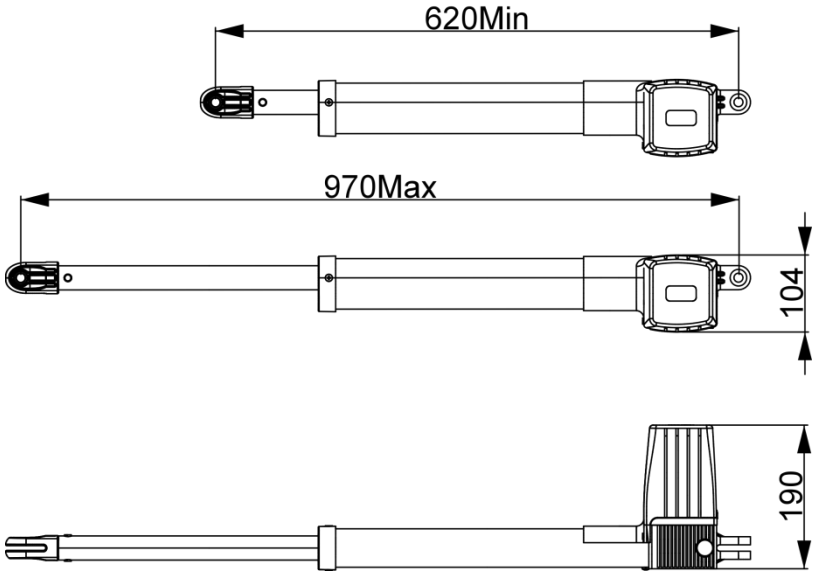


Figure 2 AK300DC

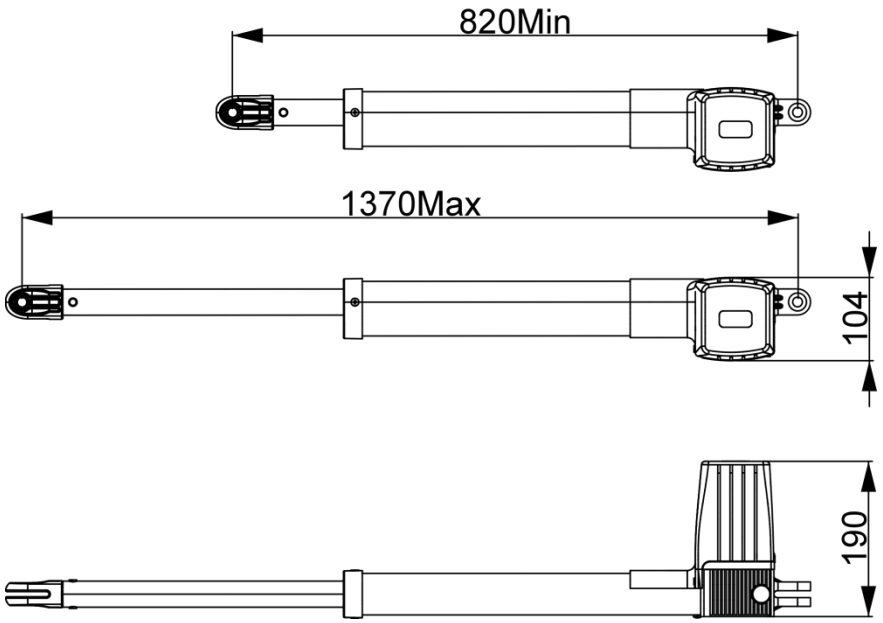
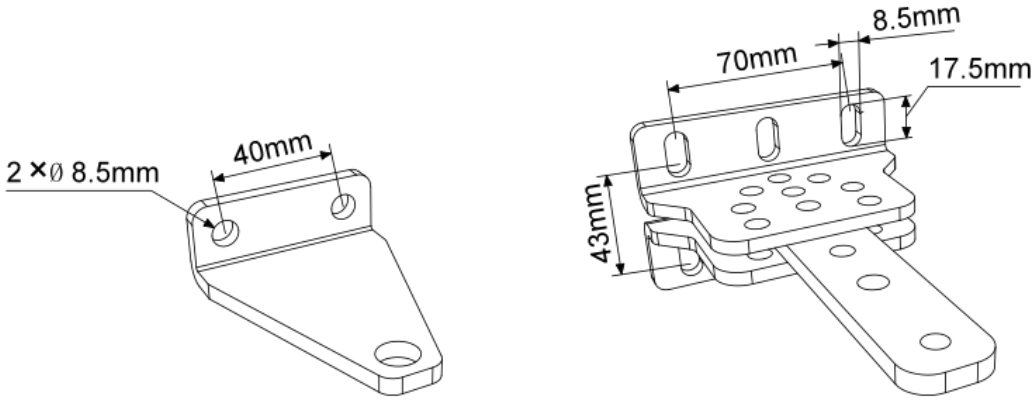


Figure 3 AK350DC

4.2.2 Size of Mounting Bracket



Front mounting bracket **Wall bracket**

Figure 4

4.3 Installation Steps

4.3.1 Preparation Before Gate Opener Installation

a) Before installing the gate opener, ensure that the gate is installed correctly so that it can be operated manually with ease. The gate limit stopper should effectively prevent the gate from moving further.

b) If an electric lock is to be installed, the distance between the bottom of the gate and the ground should be 40–50 mm. If the electric lock is not installed, the distance should be ≥ 20 mm.

c) The recommended mounting height for the gate opener is approximately 300 to 800 mm from the ground. Ensure that there are reliable fixed points available for mounting the brackets.

Cable

To ensure the normal operation of the gate opener and to protect the cables from damage, use PVC pipes for laying the motor, power cable, and control cables. It is recommended to use two separate PVC pipes: one for the motor and power cable and another for the control cable.

Mounting Brackets

To securely install the AK300DC/AK350DC gate openers, it is recommended to use expansion screws to fix the mounting brackets.

4.3.2 Accessory Installation

a) Before installing the gate opener, mount the wall bracket on the wall. Then, fix the connecting bracket and install the front mounting bracket onto the gate.

Note: Please use a level to check alignment before securing the brackets, ensuring that the front mounting bracket and the connecting bracket are on the same level.

b) The connecting bracket and the wall bracket can be connected based on the specific conditions, as shown in Figure 5.

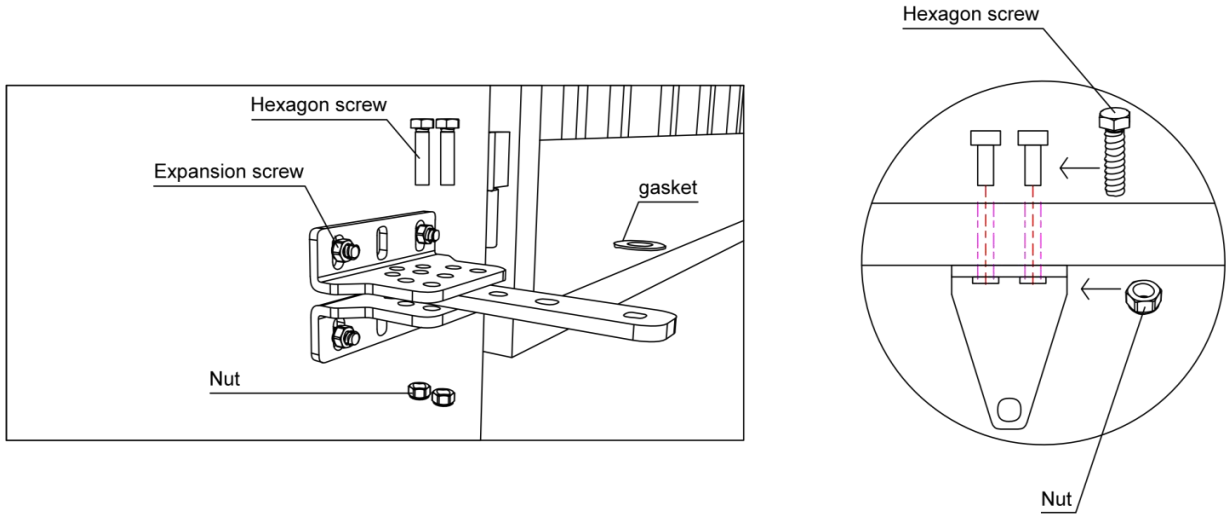


Figure 5

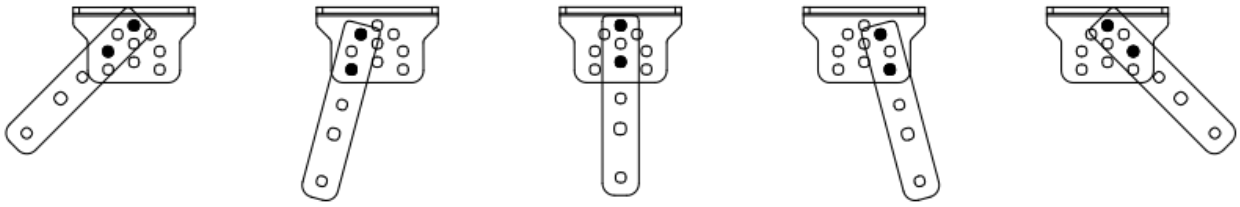


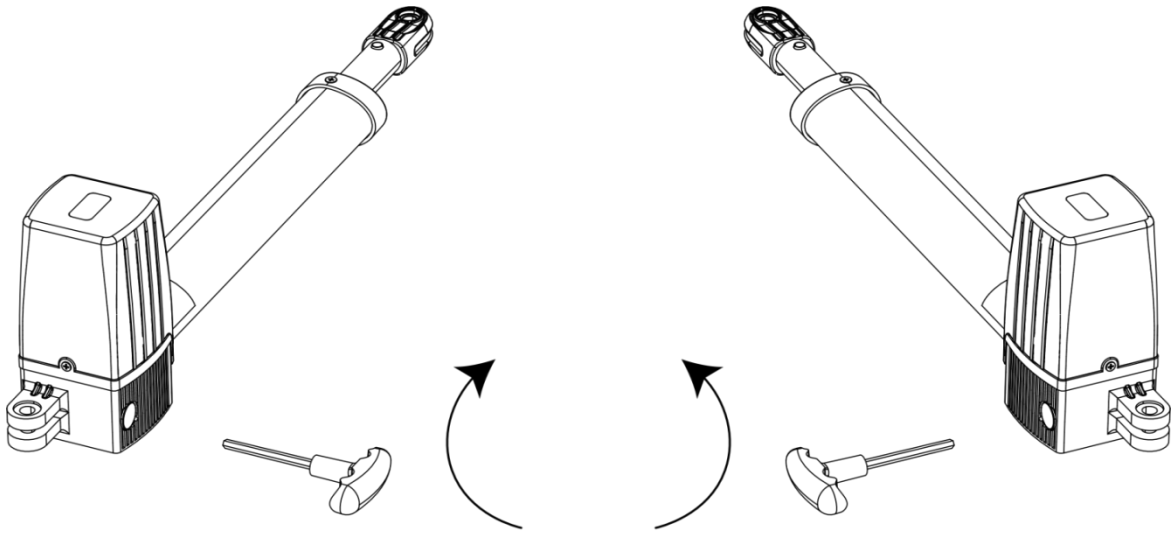
Figure 6

c) Users shall prepare power cables for the control box and gate openers, according to different installation conditions. The power cable for the control box must have no less than 3 cores, while the power cable connecting the gate opener to the control box should have 2 cores. The cross-sectional area of the wires must not be less than 1.5 mm². If you need to install external devices such as electric lock, infrared sensor, alarm lamp, or external button switch, please add the corresponding embedded wires. The wires for the electric lock should not be less than 1.5 mm², and for other cables it should not be less than 0.5 mm². The length of the cables should be determined by the user according to the specific conditions at the installation site.)

Note: The pipe outlet should face downwards to prevent rainwater from entering the pipe along the cable.

d) Before installation, please unlock the gate opener. To do this, remove the cover, insert the

manual release bar, and rotate the bar until it releases, as shown in Figure 7. Then adjust the swing arm to allow for easy extension.



Left Gate Opener **Right Gate Opener**

Figure 7

4.3.3 Gate Opener Installation

As shown in Figure 8, the tail of the gate opener is attached to the connecting bracket using screws, and then manually adjust the swing arm to the appropriate length. Finally, secure the swing arm connector and the front mounting bracket with installation screws. After completing the installation, pull the gate to ensure that the entire mechanism operates smoothly without any jamming.

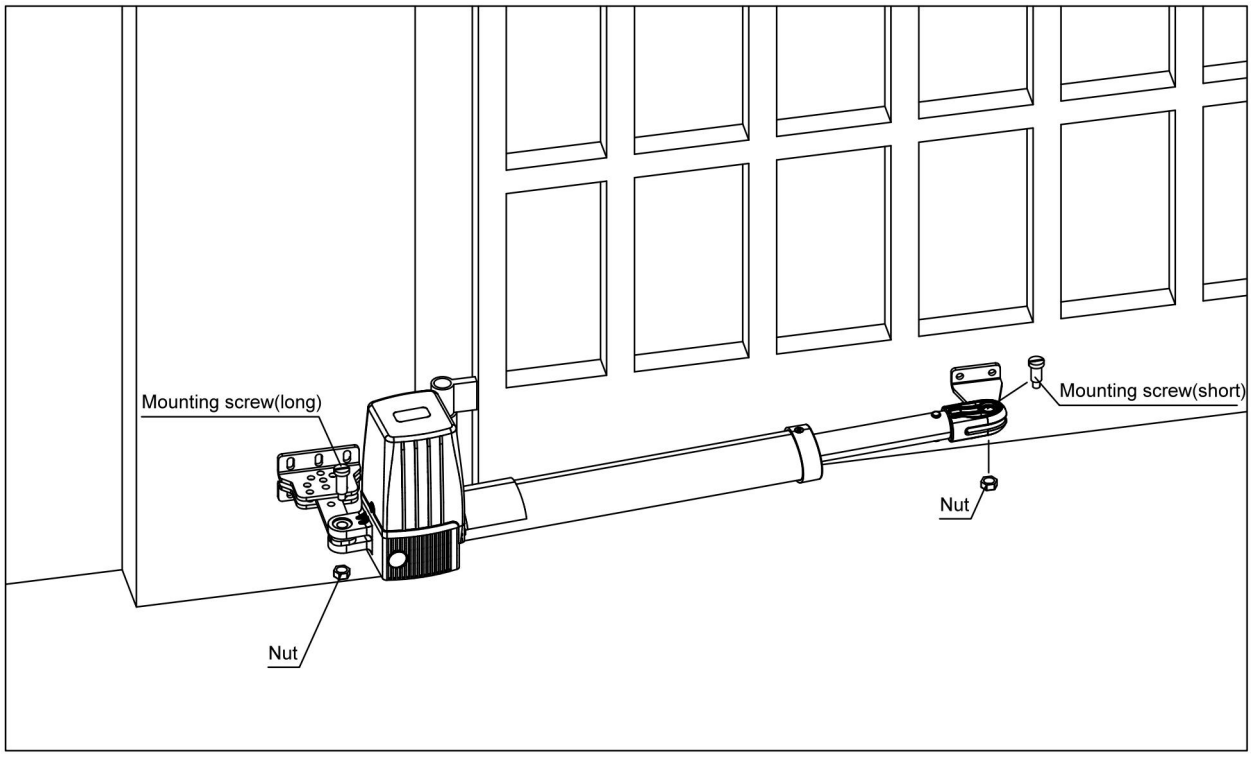


Figure 8

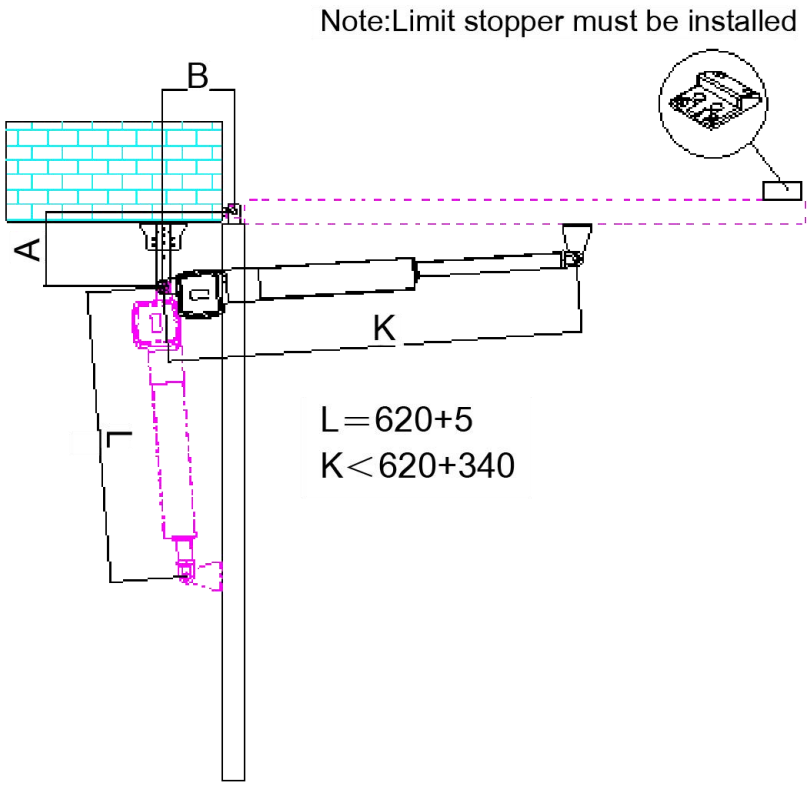


Figure 9 Installation direction: gate opens inwards (AK300DC)

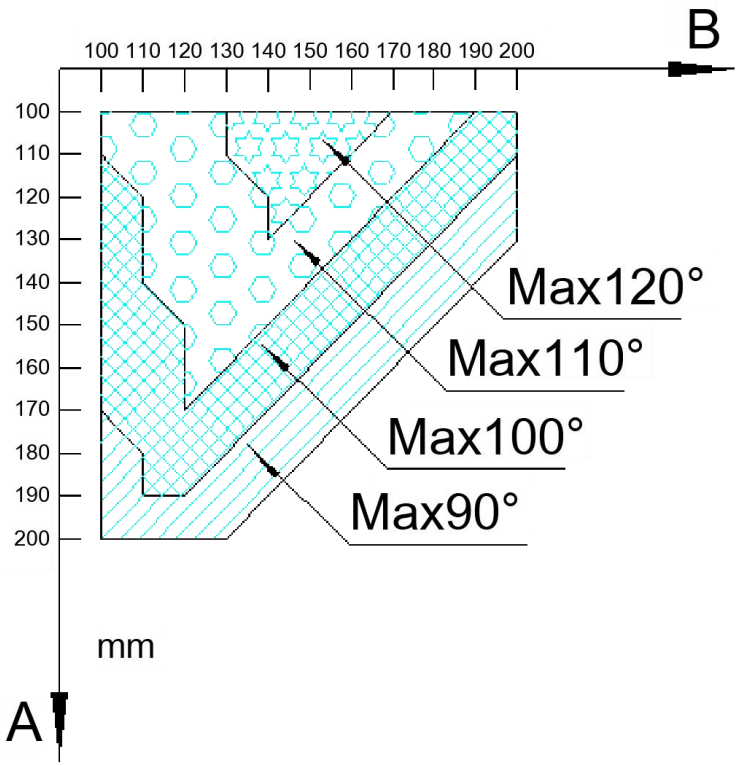


Figure 10

Note: Size B must be close to or equal to size A to obtain the best mechanical advantage.

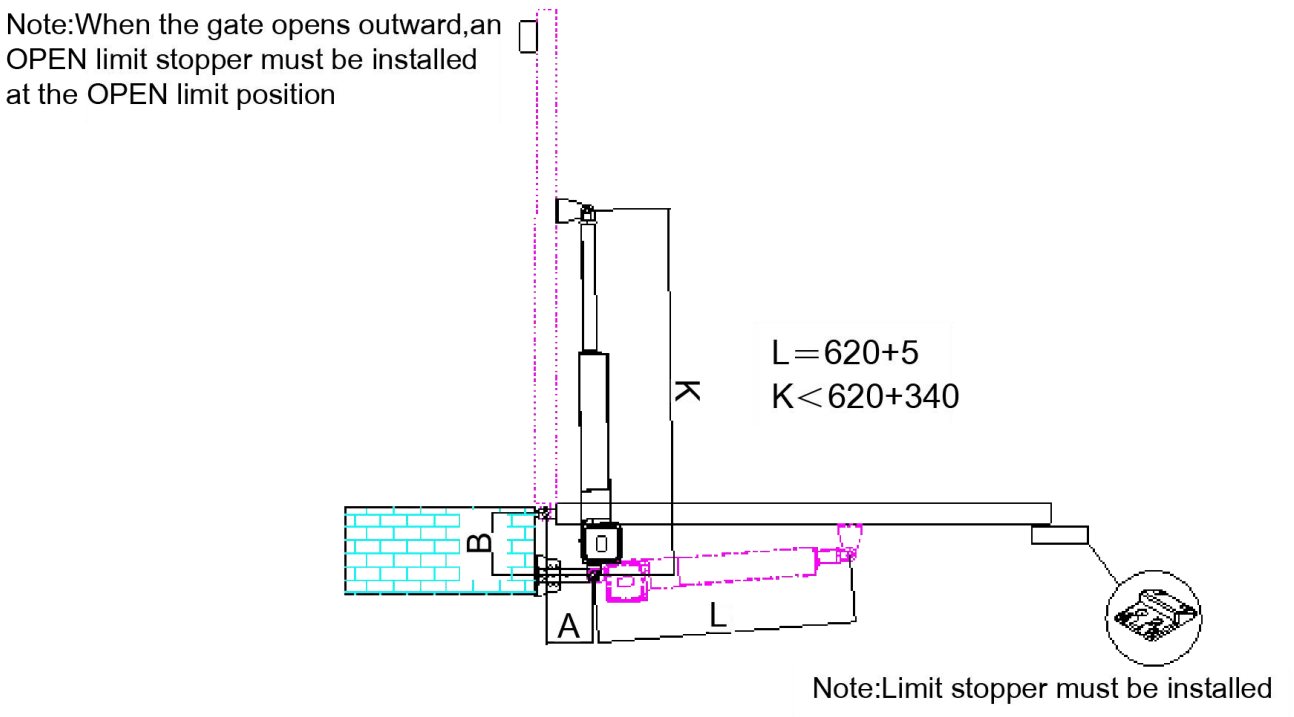


Figure 11 Installation direction: gate opens outwards (AK300DC)

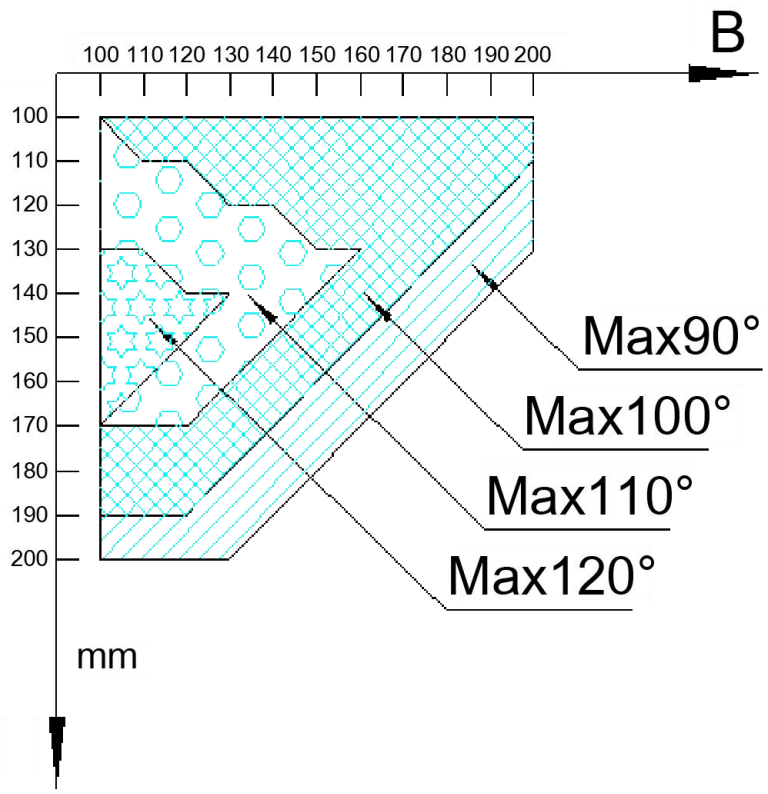


Figure 12

Note: Size B must be close to or equal to size A to obtain the best mechanical advantage.

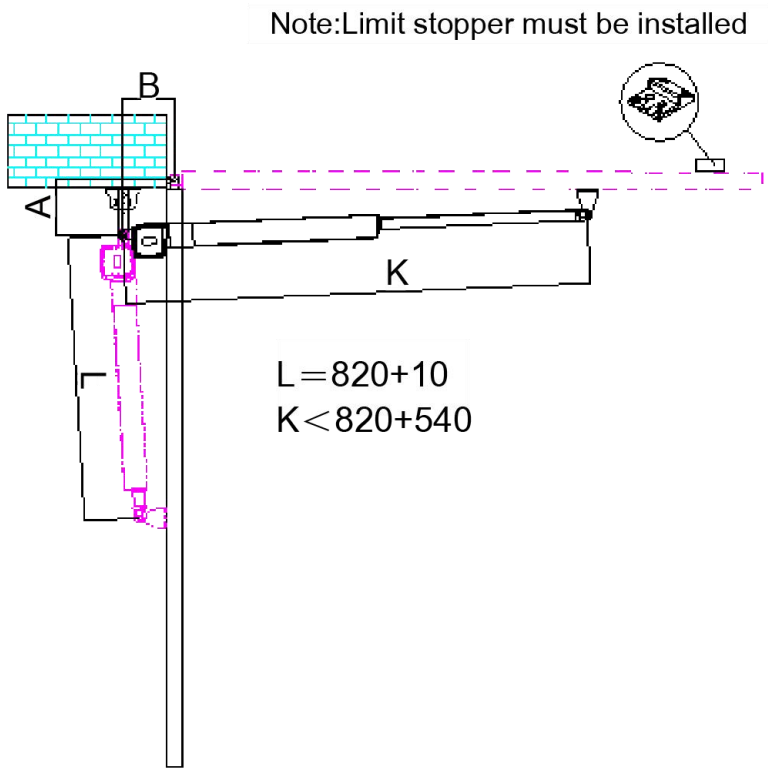


Figure 13 Installation direction: gate opens inwards (AK350DC)

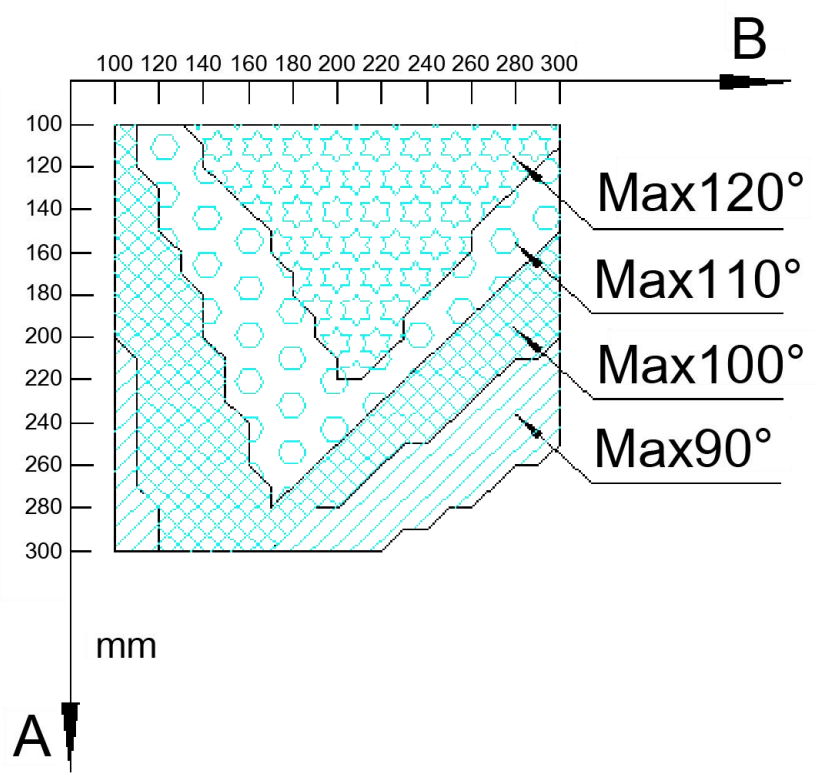


Figure 14

Note: Size B must be close to or equal to size A to obtain the best mechanical advantage.

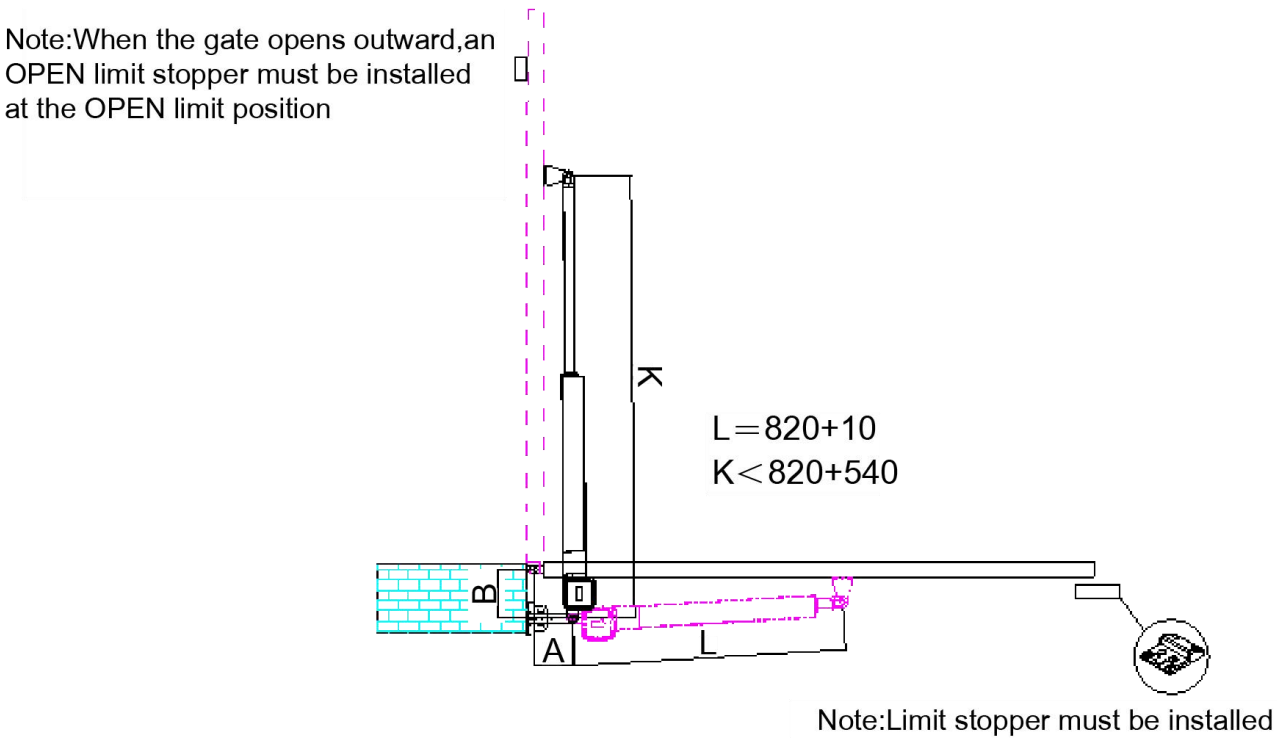


Figure 15 Installation direction: gate opens outwards (AK350DC)

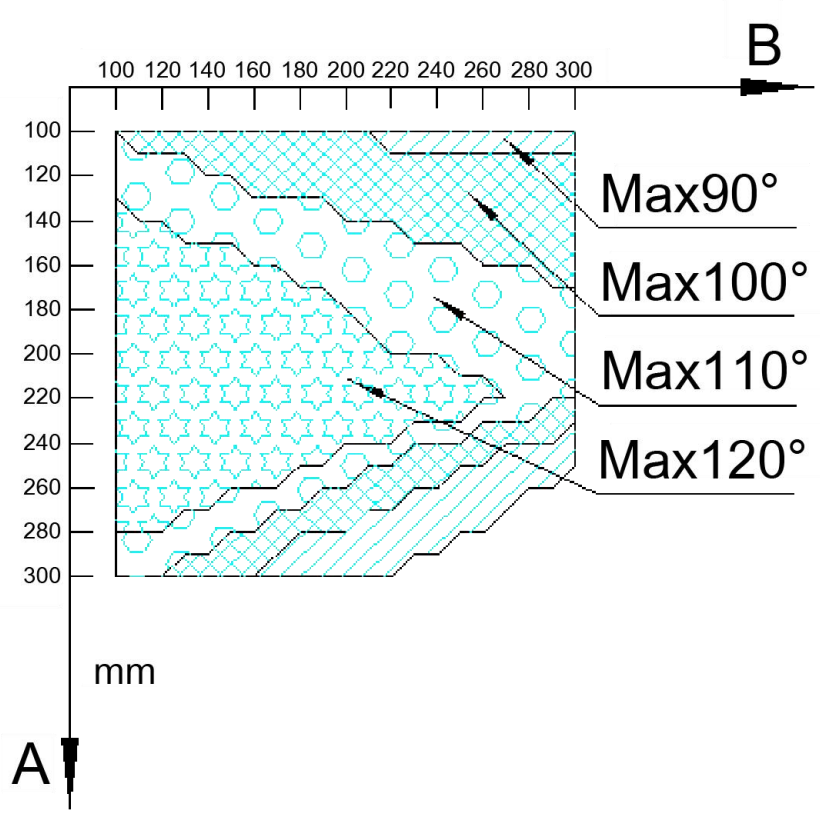
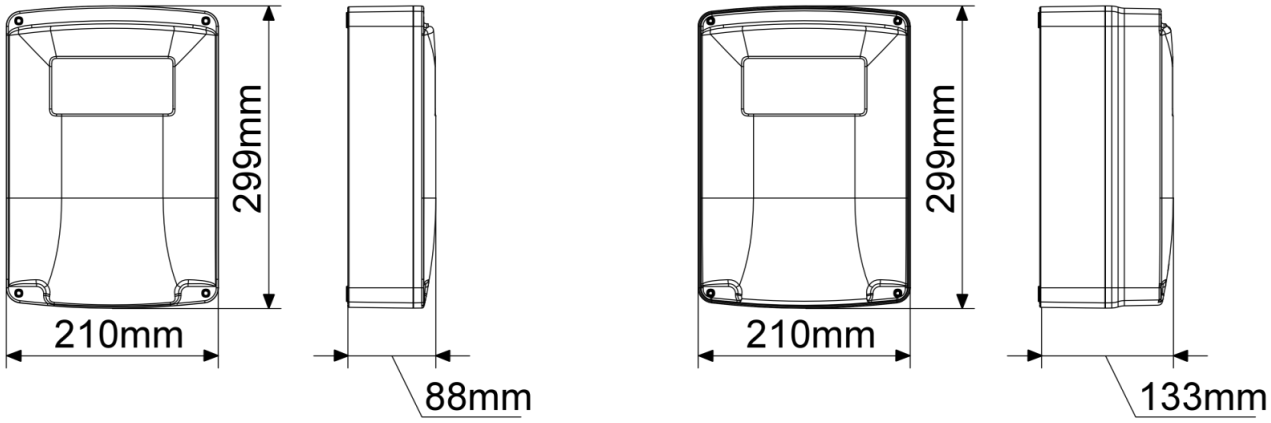


Figure 16

Note: Size B must be close to or equal to size A to obtain the best mechanical advantage.

4.3.4 Size of Control Box



Control box without built-in battery

Control box with built-in battery

Figure 17

Warning

- To ensure safety, when the gate opens outward, an OPEN limit stopper must be installed at the OPEN limit position to prevent the gate opening angle from exceeding the travel range of the gate opener, which could cause damage; A CLOSE limit stopper must be installed at the CLOSE limit position to ensure accurate stopping alignment for both gates (as shown in Figures 11 and 15). When the gate opens inward, a CLOSE limit stopper must be installed at the CLOSE limit position (as shown in Figures 9 and 13).
- Before installing the gate opener, make sure that the gate opener and its components are in good mechanical condition and that the gate can be easily operated manually.
- One control box can control either one or two gate openers.
- An earth leakage circuit breaker must be installed in a location where the gate movement is visible, and the control box should be mounted at a height of over 1.5 meters to prevent access by children.
- After installation, please check that the mechanical performance is in good condition, the gate operates smoothly after manual unlocking, and the infrared sensor (optional) is correctly installed and functional.

5. Wiring and Debugging

5.1 Wiring Instruction

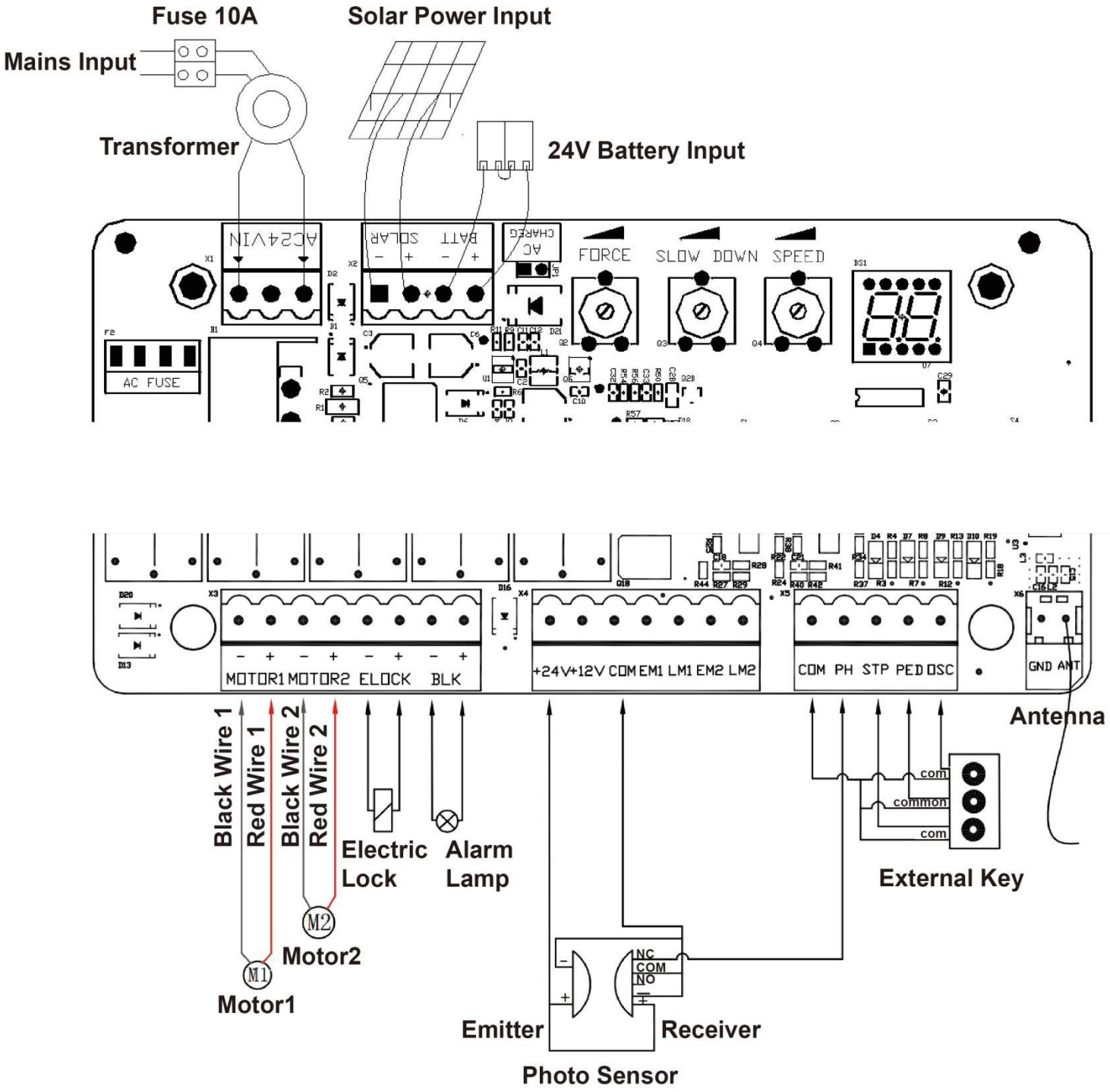


Figure 18

5.2 Control Board Drawing and Instruction

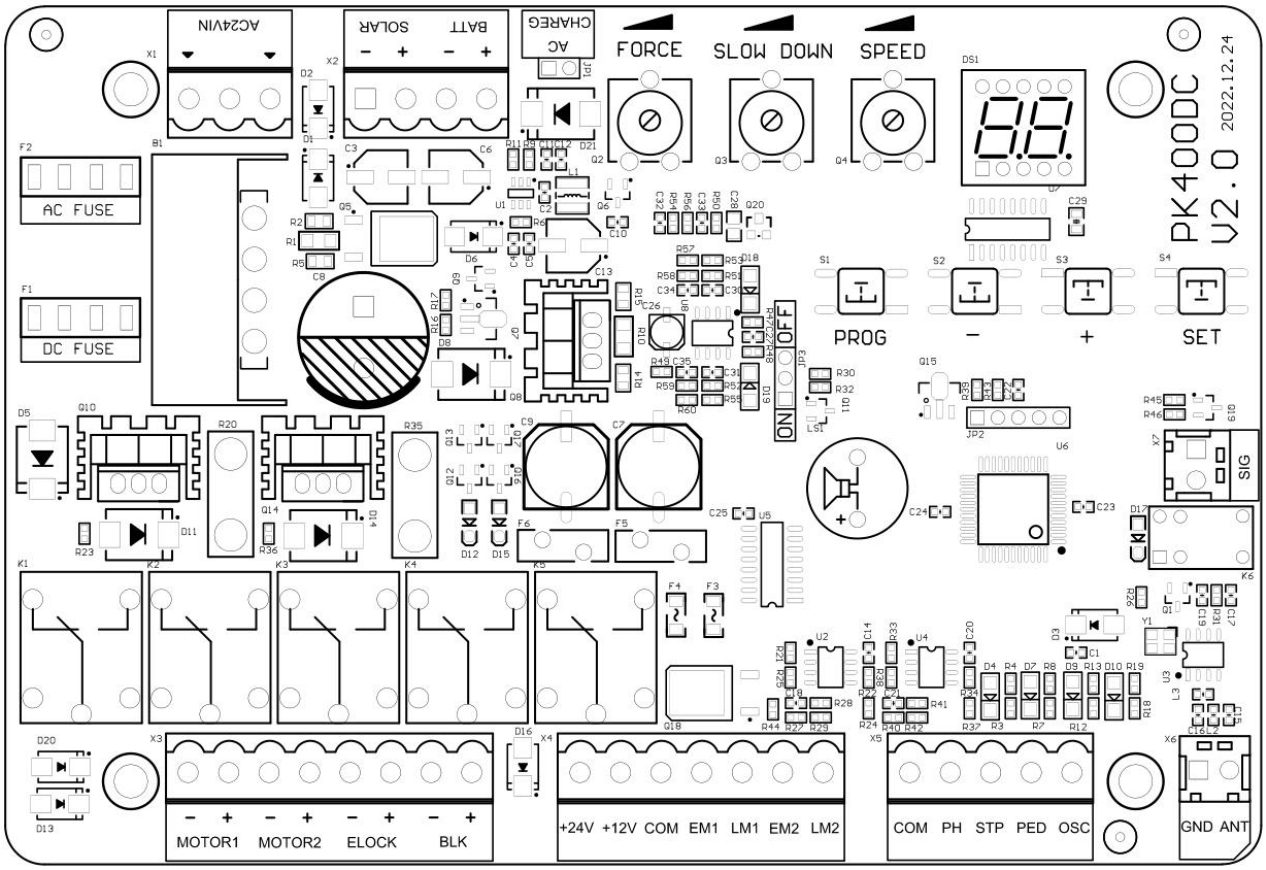


Figure 19

Terminal	Description
1. AC24VIN	24VAC Power Supply Input
2. +SOLAR-	Solar Power Input
3. +BATT-	24V Battery Input
4. FORCE	Obstacle Sensitivity
5. SLOW DOWN	Slow Stop Distance
6. SPEED	Gate Moving Speed
7. MOTOR1	Motor1 Output
8. MOTOR2	Motor2 Output
9. -ELOCK+	Electric Lock Output
10. -BLK+	Alarm Lamp Output (Note: pay attention to polarity)
11. +24V	24V Output Positive
12. +12V	12V Output Positive (No output in standby mode)
13. EM1	Motor1 Hall Sensor Power Output
14. LM1	Motor1 Hall Sensor Limit Signal Input
15. EM2	Motor2 Hall Sensor Power Output
16. LM2	Motor2 Hall Sensor Limit Signal Input
17. PH	Photo Sensor Input Active
18. PED	Single Gate/Pedestrian Mode Input Active
19. OSC	Single Channel Input Active
20. ANT	Antenna
21. COM	Common
22. SIG	The signal is normally closed only when the gate is fully closed

Photo Sensor Wiring Instruction

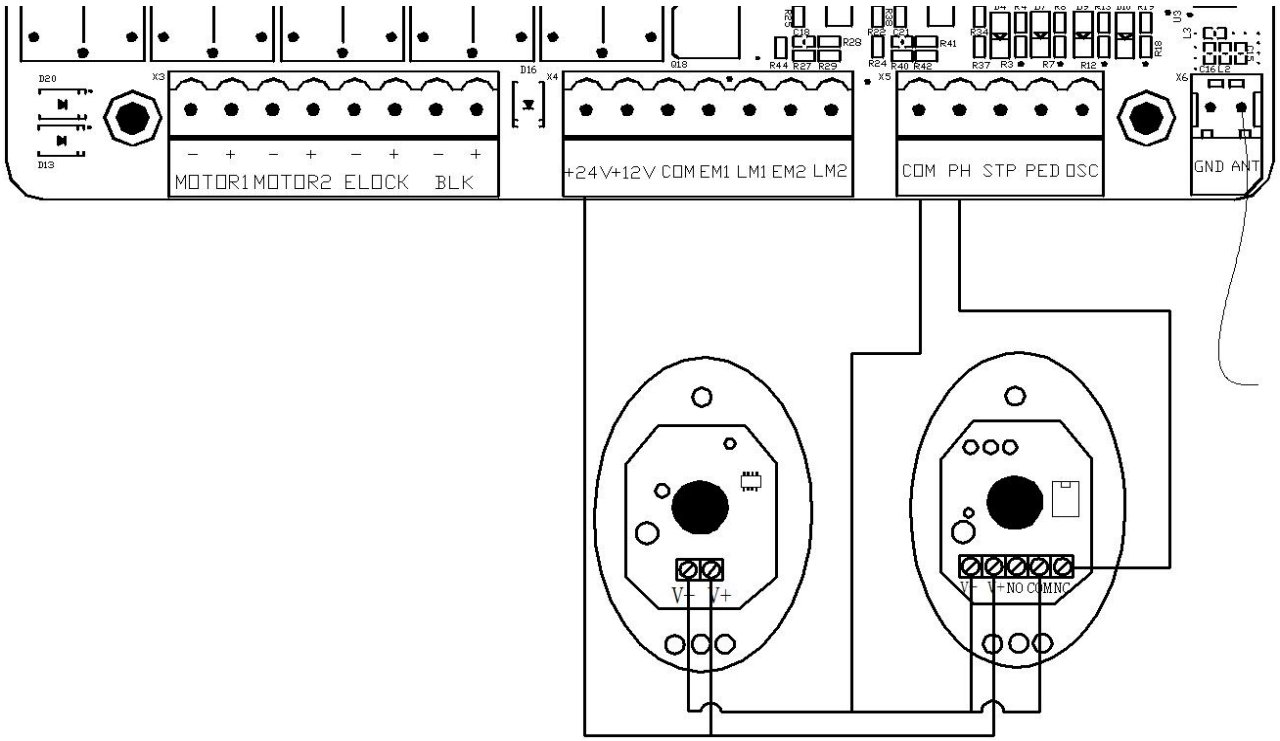


Figure 20

WIFI Module Wiring Instruction

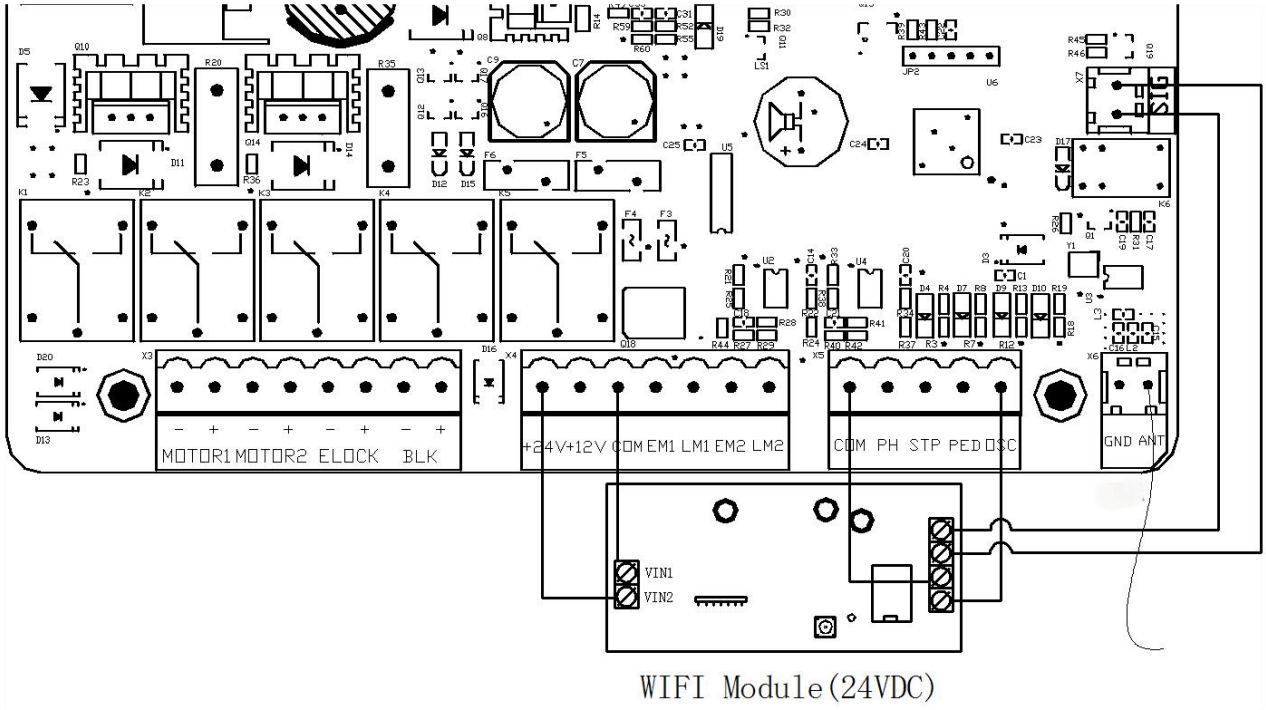


Figure 21

Enable and Disable Buzzer



Jumper to **ON**: Enable the buzzer



Jumper to **OFF**: Disable the buzzer

Zoom in the buzzer jumper

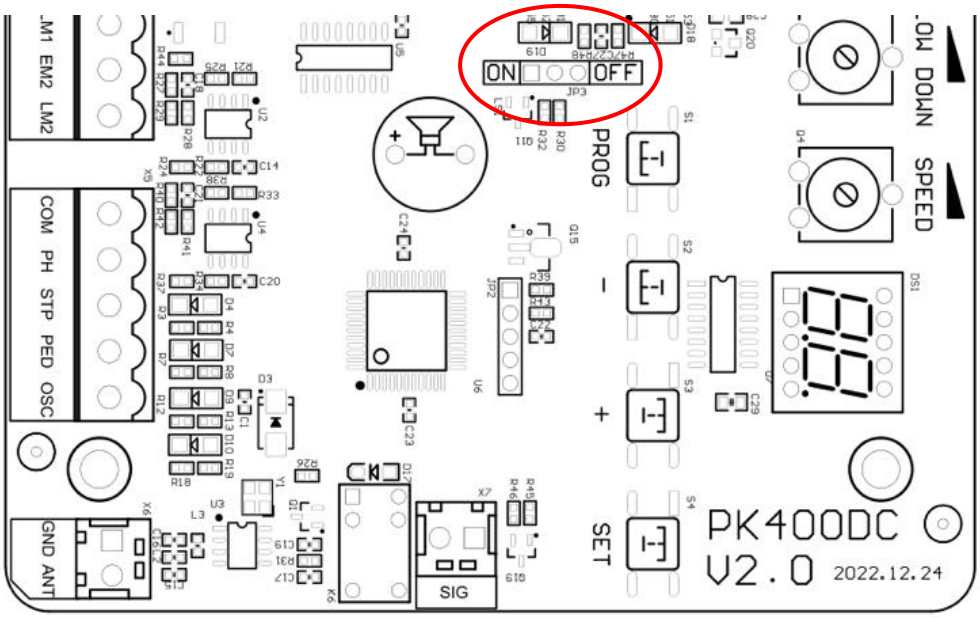


Figure 22

Battery Charging Function

Insert the jumper to enable battery charging function

Remove the jumper to disable battery charging function

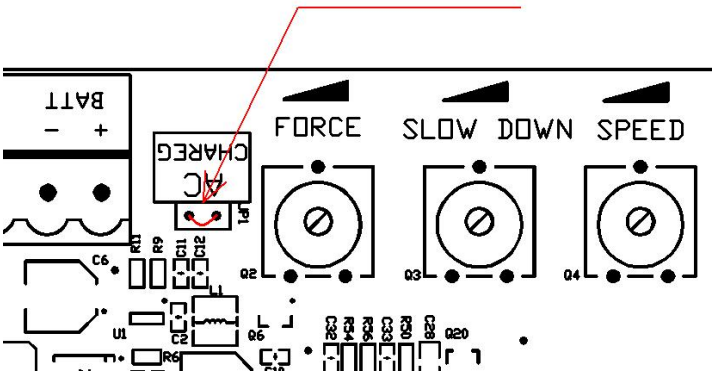


Figure 23

Note: When using solar power only, it is recommended to remove the jumper to reduce power consumption.

5.3 Digital Screen Setting

When the control board is working, users can check the working status of gate opener by the digital screen on the control board.

 no input

 under opening state

 under closing state

 manual mode

 travel setting

5.4 Travel Setting (VERY IMPORTANT)

During the initial installation of gate openers, it is necessary to set the travel limits for both the open and closed positions.

Open both sides of the gate and lock the clutch. Then press and hold the "+" button on the control board until the digital screen shows "SU". At this point, the gate will first move towards the closing direction until it reaches the closed position and blocks, and then the gate will automatically open. When the two swing gates are fully open, the gates will automatically close for the second time, and the travel setting will be completed when the gates are closed. If the slow speed distance of gate is not appropriate, adjust the "SLOW DOWN " trimmer to revise the distance.

Notes

- **Wiring**: connect the black wire of gate opener 1 to the left side of MOTOR1 and the brown wire to the right side. For gate opener 2, connect the black wire to the left side of MOTOR2 and the brown wire to the right side.
- **Single gate mode**: connect the gate opener to MOTOR1.
- **Sudden Stops**: If the gate stops unexpectedly during travel setting, please increase the resistance force by the Obstacle Sensibility Trimmer.
- **Obstacle Handling**: If the gate fails to stop when encountering an obstacle during travel setting, please appropriately decrease the resistance force by the Obstacle Sensitivity Trimmer.
- **Speed Adjustments**: After adjusting the "SPEED" trimmer, the installer must redo the travel setting.
- **Cancel Setting**: During the travel setting, you can long press the “SET” button to cancel the setting.

5.5 Trimmers Setting

Obstacle Sensitivity Trimmer

To adjust the sensitivity to obstacles: turn clockwise to increase sensitivity and counterclockwise to decrease it. If there are environmental influences such as strong winds, adjust the trimmer as needed to match environmental conditions.

Slow Speed Distance Trimmer

To adjust the distance for slow speed: turn clockwise to increase and counterclockwise to decrease the slow speed distance. Avoid setting a very short slow speed distance to prevent gate collisions.

Gate Moving Speed Trimmer

To adjust the gate moving speed: turn clockwise to increase speed and counterclockwise to reduce speed. This setting affects the opening and closing travel time. Complete this adjustment before performing the travel setting.

Note: after adjusting the SPEED trimmer, please perform the travel setting again.

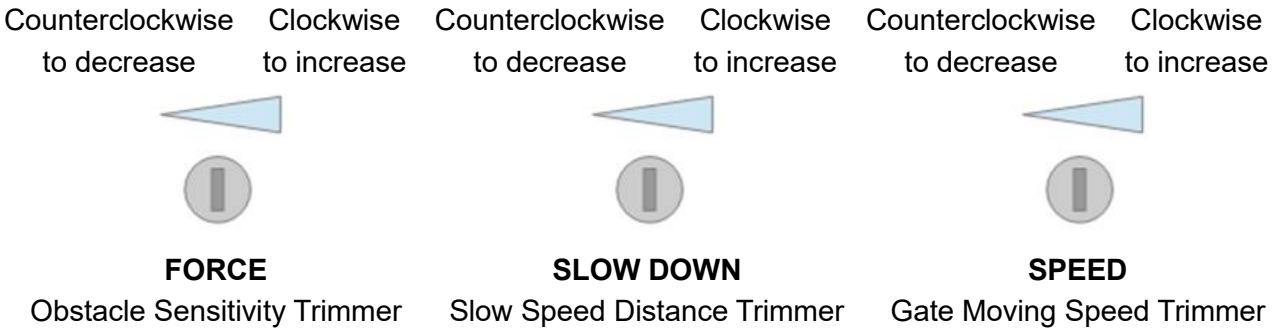


Figure 24

5.6 Learning and Deleting Remote Control

5.6.1 Learning Remote Control

Press and hold "-" button, the alarm lamp will keep flashing, and the digital screen will show the remote control mode:

- "PO" — dual swing gate single-channel mode
- "Pd" — single gate four-channel mode

Press the button on the remote control to be learned, the digital screen will show the number of current learned remote control, then the remote control learning is completed. (The default of new paired remote control is dual swing gate single-channel mode).

5.6.2 Deleting Remote Control

Enter into “AE” on the digital screen and select “rE” to delete all paired remote controls.

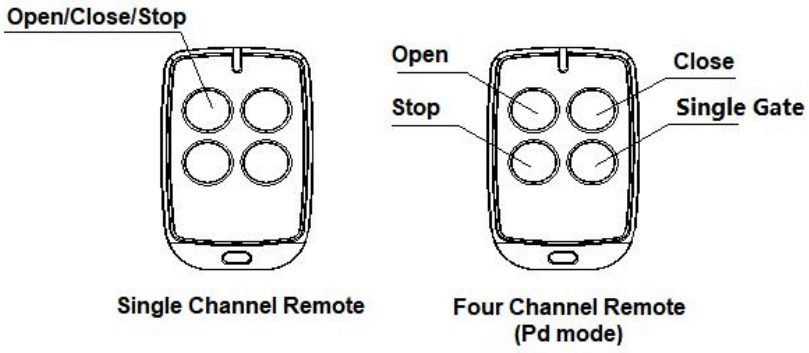


Figure 25

5.6.3 Special Remote Control Key Combination

Press and hold the following combination keys for 5 seconds.

- **C (stop) + D (single gate)** – Enters remote control learning mode.

5.7 Control Board Settings

5.7.1 Base Menu

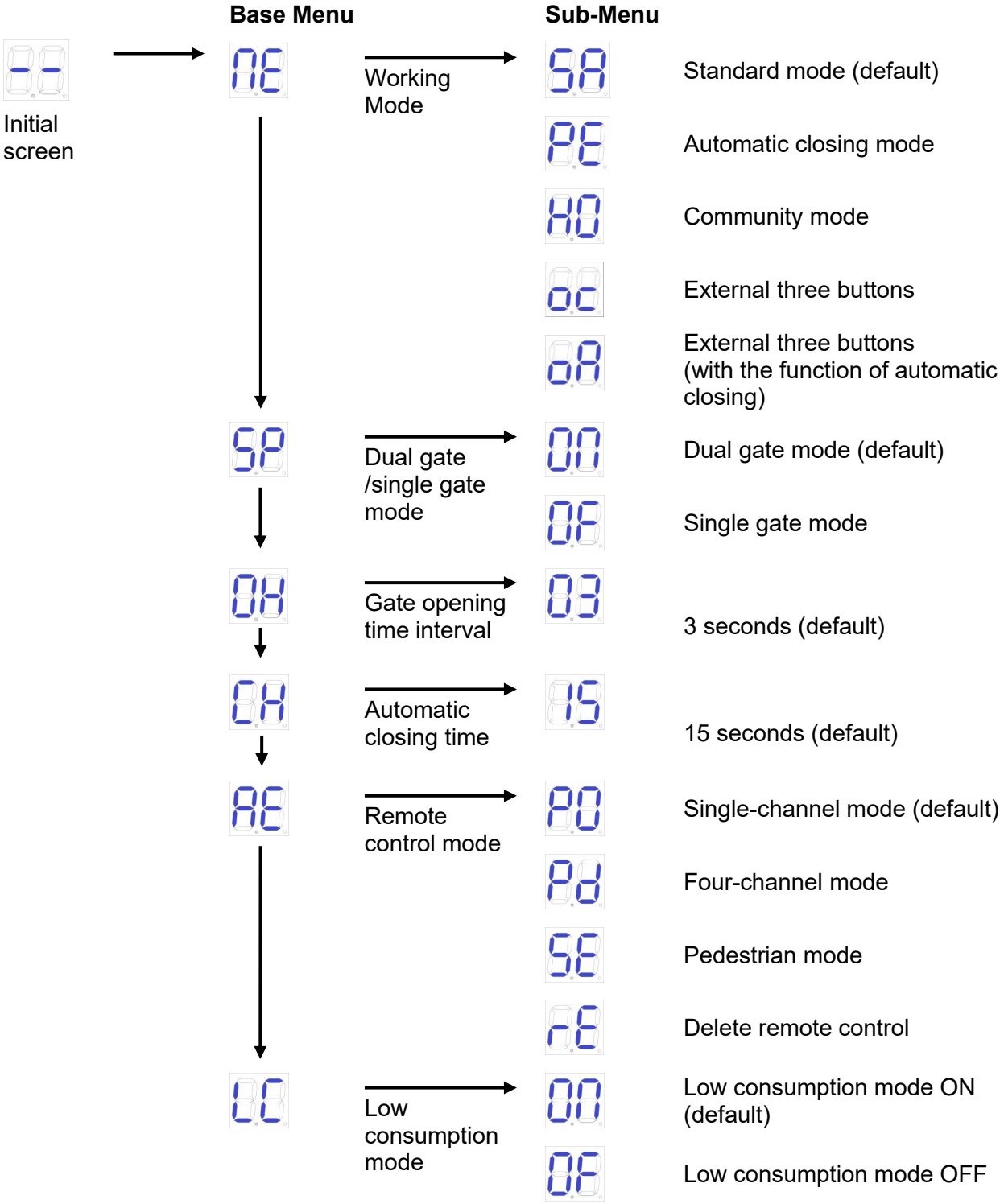
Press the "PROG" to enter the base menu.

The Digital screen will display “NE”, select other functions within this menu by “+” and “-” buttons.

Press "SET" to confirm or to enter a sub-menu.

Press “PROG” to exit the menu.

If there is no input for one minute, the menu will automatically exit.



5.7.2 Base Menu Instruction

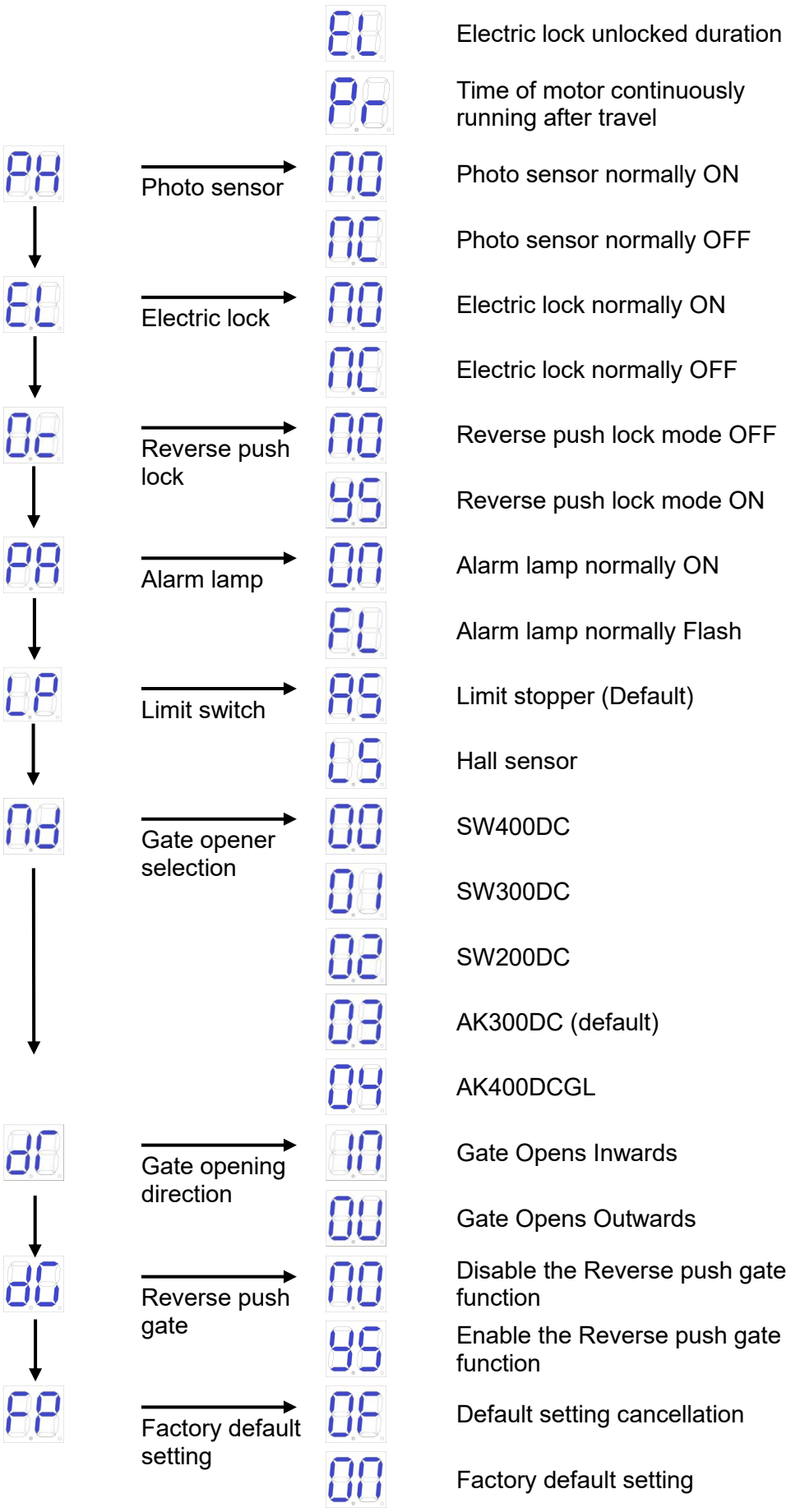
Menu Press "PROG" to enter the base menu	**Option** Press “+” (up) or “-” (down) to select; Press “SET” to confirm	**Default /Attention**
Working Mode	SA Standard mode; OSC/PED/STP represents dual gate single channel mode/pedestrian mode/stop OSC -- dual gate single channel mode PED -- pedestrian mode STP -- stop PS.: Pedestrian mode means that under dual gate mode, when both gates all closed, only M1 will open. PE OSC/PED/STP standard mode with automatic closing function. When the gate opens, it will automatically close after the automatic closing time. If a “close the gate” command is sent during the automatic closing waiting period, the automatic closing function will be canceled. AO Community mode (with automatic closing function). When the gate opens, no gate commands will be responded to until it closes automatically. If a gate command is sent during the closing process, the gate will reopen. If a gate command is sent during the automatic closing waiting period, the waiting time will be recalculated. If the gate does not close completely for more than ten consecutive attempts, the automatic closing function will be canceled, and the gate will close after resending the gate closing command. Note that in community mode, the gate still retains the automatic closing function in case of encountering obstacles. oC External three buttons (OSC/PED/STP represents open/pedestrian/stop) oA External three buttons: OSC/PED/STP is external three-button mode (with the function of automatic closing)	SA Standard mode; OSC/PED/STP represents dual gate single channel mode/pedestrian mode/stop
Dual Gate/Single Gate Mode	00 Dual gate mode (default). 01 Single gate mode.	00 Dual gate mode.

Gate Opening Time Interval	03 The gate opening time interval is 0-10 seconds (default is 3 seconds). If the interval is less than 2 seconds, the electric lock cannot be used.	03 3 seconds.
Automatic Closing Time	15 Automatic closing time can be set as 15 (default), 30, 60, 90 seconds.	15 15 seconds.
Remote Control Mode	P0 Single channel mode. Pd Four channel mode (open/close/stop/pedestrian mode) SE Pedestrian mode. rE Delete all paired remote controls.	P0 Single channel mode.
Low Consumption Mode	00 Low consumption mode ON (When there is no operation on the initial screen, the control board will automatically enter the low consumption mode after 1 minute.) 0F Low consumption mode OFF	00 Low consumption mode ON

5.7.3 Advanced Menu

Press and hold "PROG" for 2 seconds to enter the advanced menu.
The digital Screen will display “TL”. select other functions within this menu by “+” and “-” buttons.
Short press “SET” to confirm or to enter a sub-menu.
Short press “PROG” to exit the menu.
If there is no input for one minute, the menu will automatically exit.




EL
Electric lock unlocked duration
Pc
Time of motor continuously running after travel
PH
Photo sensor
nO
Photo sensor normally ON
nC
Photo sensor normally OFF
EL
Electric lock
nO
Electric lock normally ON
nC
Electric lock normally OFF
Rc
Reverse push lock
nO
Reverse push lock mode OFF
YS
Reverse push lock mode ON
AA
Alarm lamp
On
Alarm lamp normally ON
FL
Alarm lamp normally Flash
LP
Limit switch
AS
Limit stopper (Default)
HS
Hall sensor
Gd
Gate opener selection
00
SW400DC
01
SW300DC
02
SW200DC
03
AK300DC (default)
04
AK400DCGL
dI
Gate opening direction
In
Gate Opens Inwards
Ou
Gate Opens Outwards
dG
Reverse push gate
nO
Disable the Reverse push gate function
YS
Enable the Reverse push gate function
FP
Factory default setting
nF
Default setting cancellation
On
Factory default setting

5.7.4 Advanced Menu Instruction

Menu Long press "PROG" 2 seconds to enter into base menu.	**Option** Press “+” (up) or “—” (down) to select; Press “SET” to confirm.	**Default/Attention**
Travel Time Adjustment	 Time of of gate1  Time of of gate2  Time fine tuning of of gate 1  Time fine tuning of of gate 2  Obstacle sensitivity force in fast speed (When the gate is moving at full speed, the obstacle sensitivity force is at its lowest. If the obstacle sensitivity trimmer turns to maximum and an error appears on the screen, increase the value; If the trimmer turns to minimum and the obstacle sensitivity force is still too high, decrease the value)  Obstacle sensitivity force in slow speed (When the gate is moving at slow speed/soft start and stop, the obstacle sensitivity force is at its lowest. If the obstacle sensitivity trimmer turns to minimum and the gate reaches the limit stopper but the motor still runs, decrease the value. If the obstacle sensitivity force is maximum but the gate stops before reaching the limit stopper, increase the value.)  Electric lock opening time (The duration of electric lock stays opening, default is 3 seconds)  Time of motor continuously running after travel (5S-60S)	After automatic learning, if the travel is not ideal, it can be adjusted manually. Under the limit stopper mode, the shorter the time, the greater the slow speed distance of the gate. Under the Hall sensor mode, the shorter the time, the shorter the gate travel. Any adjustments to the obstacle sensitivity force for fast and slow speeds must be performed only by a licensed electrician.
Photo Sensor	 N/O; photo sensor normally ON. (Default)  N/C; photo sensor normally OFF.	 N/O; photo sensor normally ON.
Electric Lock	 Electric lock normally ON. (Default)  Electric lock normally OFF.	 Electric lock normally ON.

 **Reverse Push Lock**	 Reverse push lock mode OFF  Reverse push lock mode ON (When the electric lock is activated, the gate opener M1 will move slightly in the closing direction to prevent the electric lock from jamming and becoming unable to open.)	 Reverse push lock mode OFF
 **Alarm Lamp**	 Alarm lamp is normally on. 24V power supply. (Default)  Alarm lamp normally flashes. 24V power supply.	 Alarm lamp is normally ON. 24V power supply.
 **Limit Mode**	 Limit stopper (Default)  Hall sensor	 Limit stopper (Default)
 **Gate Opener Selection**	 SW400DC  SW300DC  SW200DC  AK300DC  AK400DCGL	 AK300DC
 **Gate Opening Direction**	 Gate Opens Inwards (Default)  Gate Opens Outwards	 Gate Opens Inwards
 **Reverse Push Gate**	 Disable the Reverse Push Gate function  Enable the Reverse Push Gate function (When enabled, the gate will move slightly backward after reaching the position to prevent it from getting stuck.)	 Disable the Reverse Push Gate function
 **Factory Default Setting**	 Cancel factory default setting.  Factory default setting completed.	

6. Others

6.1 Maintenance

Monthly inspect the gate to ensure it is operating normally.
For safety purposes, it is recommended that each gate be equipped with an infrared sensor, which should also be inspected regularly.
Before installation and operation of the gate opener, please read all instructions carefully.
We reserve the right to modify the user manual without prior notice.

6.2 Errors

Errors that may occur when the gate is operating properly.

Error Indication	Error Cause	Solution
	Gate 1 obstructed in opening	1. Check if there is any obstruction when gate 1 opens 2. Adjust obstacle sensitivity appropriately 3. Increase slow speed distance appropriately
	Gate 2 obstructed in opening	1. Check if there is any obstruction when gate 2 opens. 2. Adjust obstacle sensitivity appropriately 3. Increase slow speed distance appropriately
	Gate 1 obstructed in closing	1. Check if there is any obstruction when gate 1 closes 2. Adjust obstacle sensitivity appropriately 3. Increase slow speed distance appropriately
	Gate 2 obstructed in closing	1. Check if there is any obstruction when gate 2 closes 2. Adjust obstacle sensitivity appropriately 3. Increase slow speed distance appropriately
	Photo sensor disconnect	1. Check the photo sensor setting status 2. Check if there is any obstruction in the infrared area
	Gate 1 closes before gate 2	1. Relearn travel setting 2. Adjust the opening time interval
	Motor runs too long	1. Check if the travel setting is completed 2. Check if Hall sensor is damaged 3. If the gate doesn't stop when in slow speed state, counterclockwise the trimmer to decrease the obstacle sensitivity or reduce the SL value in travel time adjustment in advanced menu
	Travel setting not completed	Re-learn the travel setting

6.3 Troubleshooting

Problems	Possible Reasons	Solutions
The gate cannot open or close normally, and the display does not light.	1. Power is off. 2. Fuse is burned. 3. Control board power wiring issue.	1. Turn on the power switch. 2. Check the fuse and replace it if burned. 3. Rewire according to the manual.
The gate can open but cannot close.	1. Photo sensor wiring issue. 2. Photo sensor mounting issue. 3. Photo sensor is blocked by obstacle. 4. Obstacle sensitivity is too high.	1. If the photo sensor is not connected, ensure that 5 and 6, 5 and 7 are short-circuited; if using photo sensor, ensure correct wiring and the photo sensor mode is N.C. 2. Ensure the photo sensor mounting positions are aligned. 3. Remove the obstacle. 4. Reduce the obstacle sensitivity.
Remote control doesn't work.	1. Low battery in the remote control. 2. Remote control not learned.	1. Replace the remote control battery. 2. Re-learn the remote control.
Press OPEN or CLOSE but the gate does not move, motor makes noise.	Gate movement is not smooth.	Adjust the motor or gate according to the actual situation.
Circuit breaker tripped.	Short circuit in the power supply line or motor line.	Check the wiring.
Remote control range is too short.	Signal is blocked.	Attach an external receiver antenna, 1.5 meters above the ground.
The gate stops or reverses at the middle position.	1. Motor output force is insufficient. 2. Obstacle sensitivity is too high. 3. Gate encounters an obstacle.	1. Check if the transformer power is normal; if not, replace the transformer. 2. Adjust the FORCE setting. 3. Remove the obstacle.