

SLIDING GATE OPERATOR **INSTRUCTION**



E-Slider

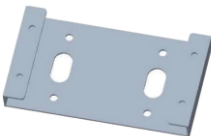
Informal Version

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

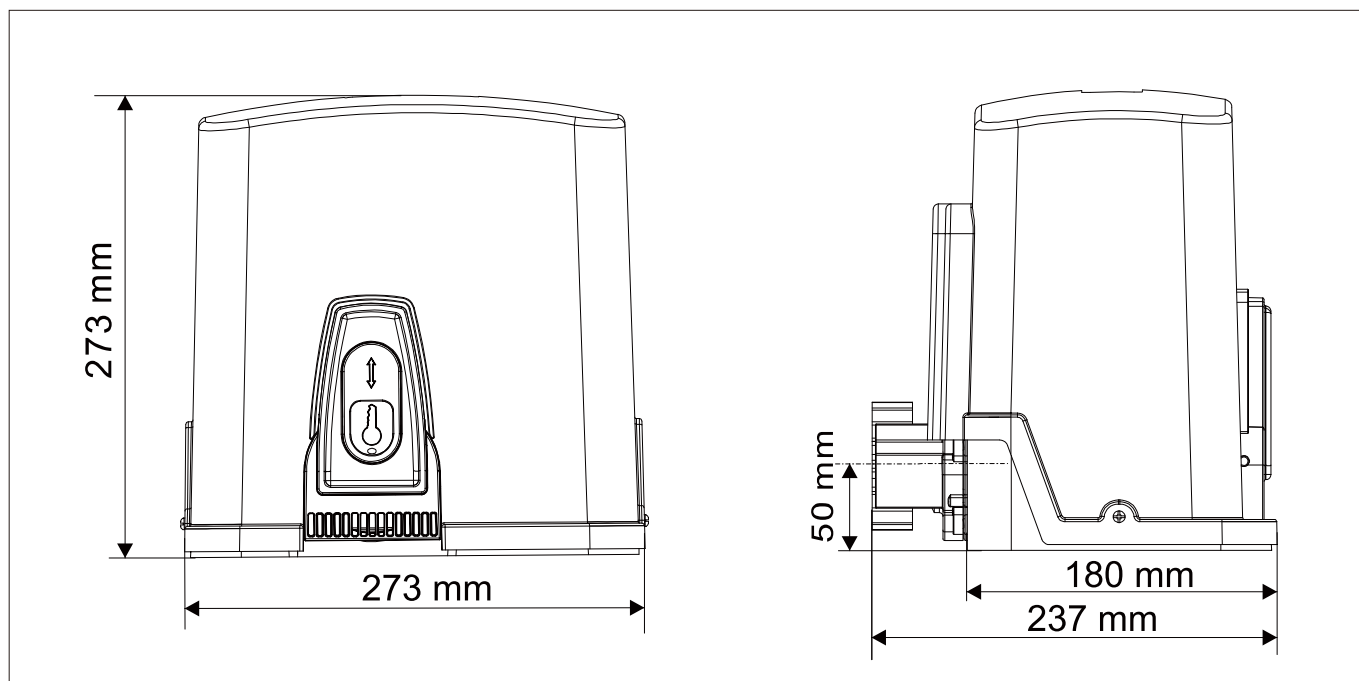
WARNING FOR INSTALLERS AND USERS

- 1) CAUTION! For personal safety it is important to follow all the instructions carefully. Incorrect installation or misuse of the product may cause serious harm to people.
- 2) Keep the manual in a safe place for future reference.
- 3) This product was designed and manufactured strictly for the use indicated in this Manual. Any other usage not expressly indicated in this manual, may damage the product or be a source of danger.
- 4) Installers shall be responsible for the consequences of improper installation.
- 5) Always disconnect power before maintenance.
- 6) The Safety devices(e.g. photocells,sensitive edges, etc...) may be used to prevent any potential risk in dangerous areas where the moving mechanism is located, such as crushing, dragging, or shearing.
- 7) Do not make any alterations to the components of the automatic system (operator and accessory).
- 8) Installers must supply full information regarding operation manual of the system in the event of any emergency and provide the system user with the "Manual" included with the product.
- 9) Do not allow children or other people to stand near any moving gate.
- 10) Keep transmitters away from children to prevent the machine from being activated accidentally.
- 11) Users must refrain from attempting to repair or adjust the system personally and should only contact professional personnel.

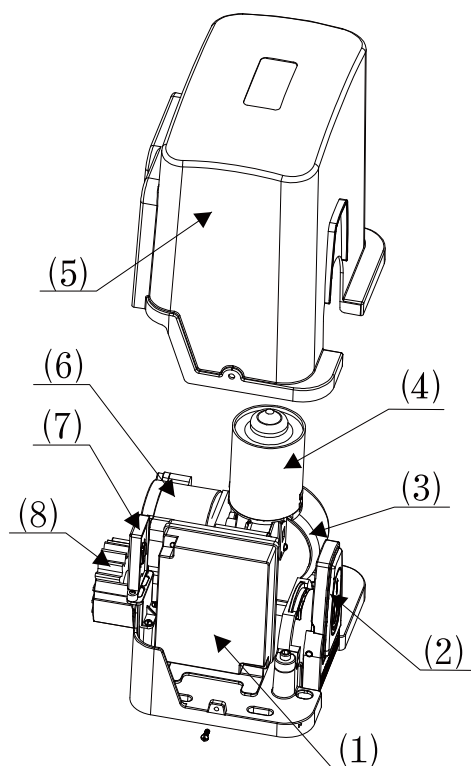
1.1 Description

E-Slider	 Transmitters	 Limit magnet/ Bracket	 E-Slider
 Release key	 Base plate	 Accessories	

1.2 Dimension



1.3 Main Parts



1.4 Technical Specifications

Model	BS-PY80-12DC	BS-PY80-16DC	BS-PY80-24DC
Type	DC Brush Motor		
Motor voltage	24VDC		
Motor Power	80W		
Output rotational speed	57r/min	75r/min	113r/min
Operate speed	12m/min	16m/min	24m/min
Max weight of gate	≤500Kg	≤400Kg	≤300Kg
Working temperature	-30℃~+60℃		
Remote range	≥30m		

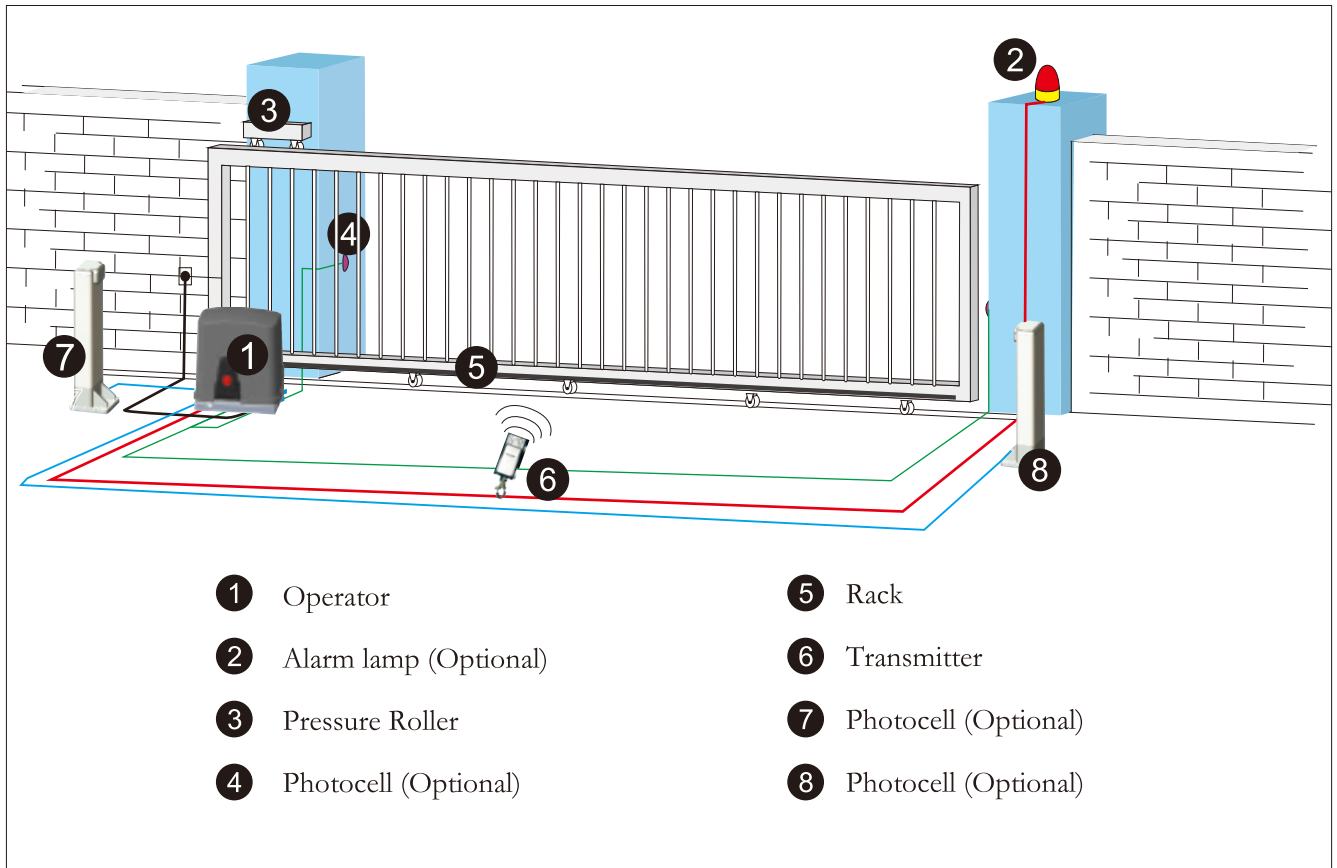
1.5 Feature

1. When the power is off, the clutch can be released to open the gate manually.
2. Soft start and soft stop.
3. Reverse or stop when meet obstacle.
4. Auto close delay function can be set.
5. Applicable to access control system.

2. Installation

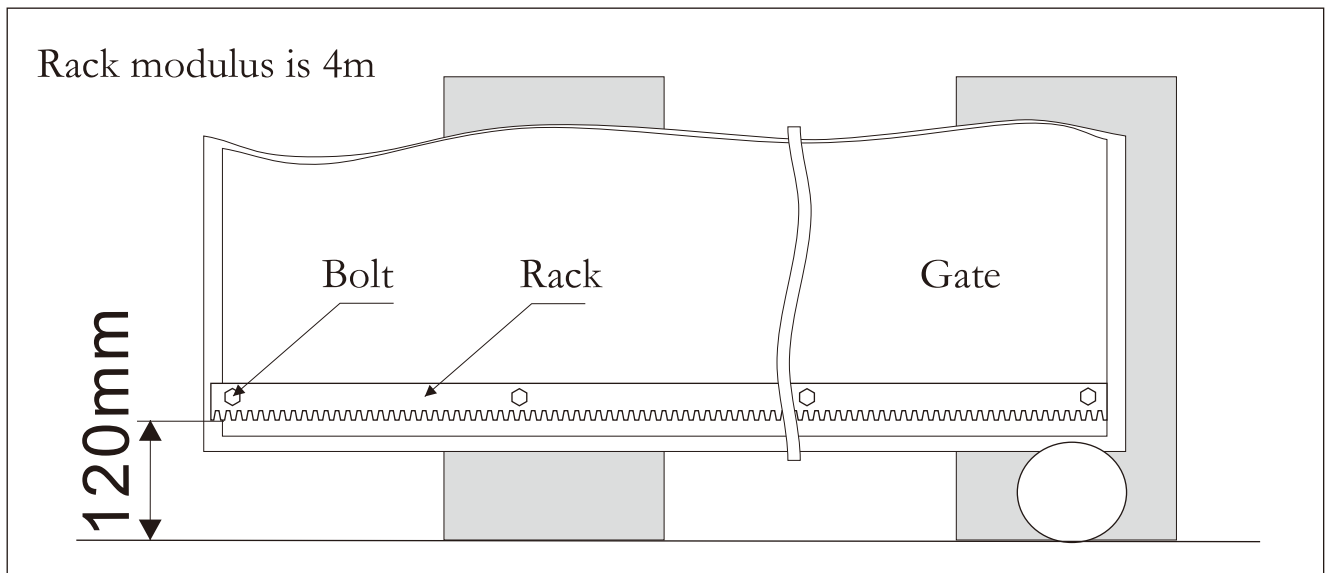
- * Before using the Gate Operator, check power supply, grounding, voltage, etc.
- * Check whether it is connected according to the instruction of wiring diagram.
- * The gate should be pulled easily and smoothly manually when the clutch are released .
- * The clutch will be coupled before power on.
- * The product must be installed by professional personnel.

2.1 Example of an automatic sliding gate



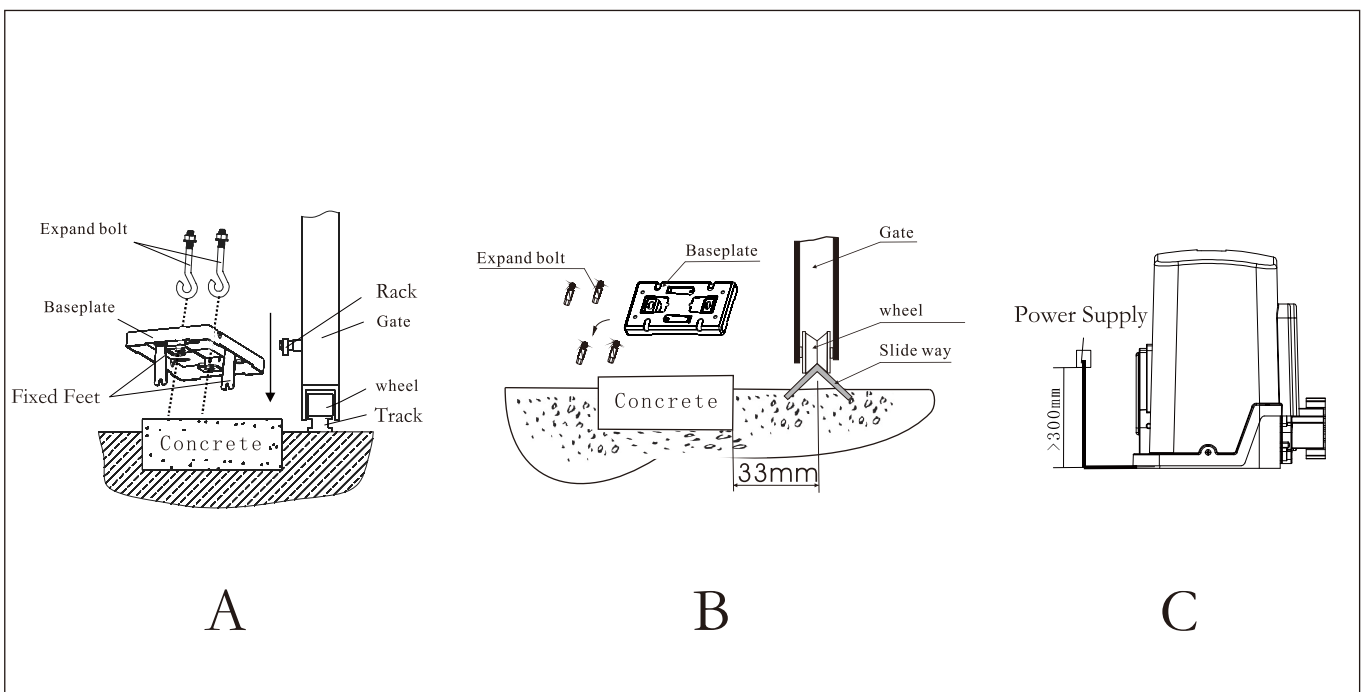
2.2 Installation of Rack

Racks shall be mounted on the Gate that can be smoothly pushed. The rack's bottom edge is more than 120 mm above the ground.

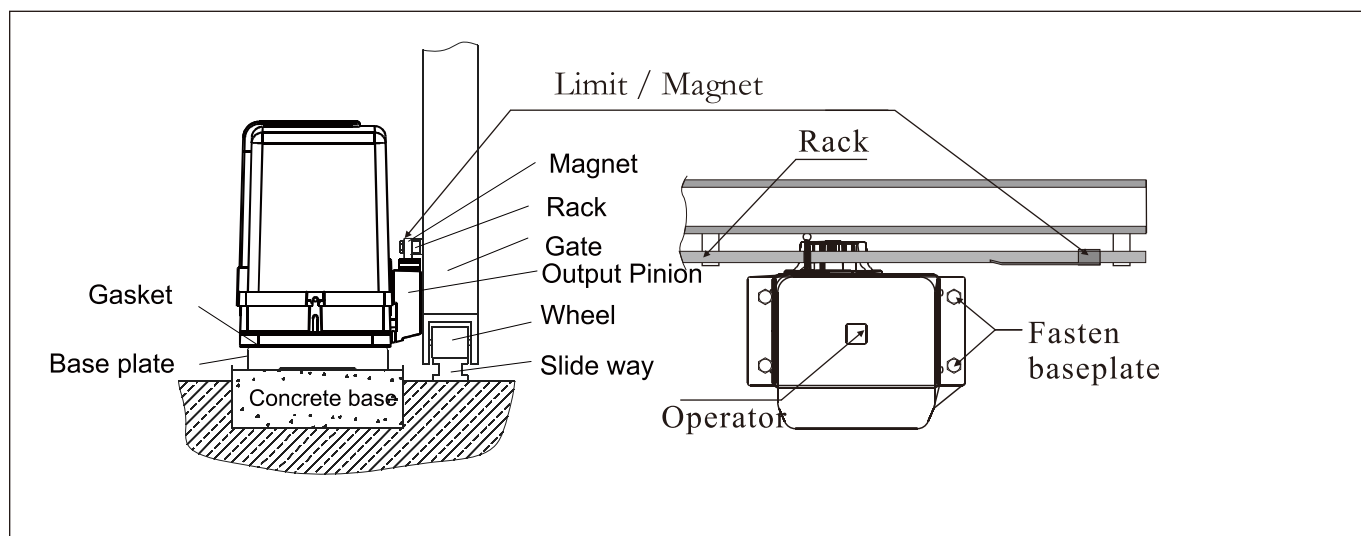


2.3 Installation and adjustment

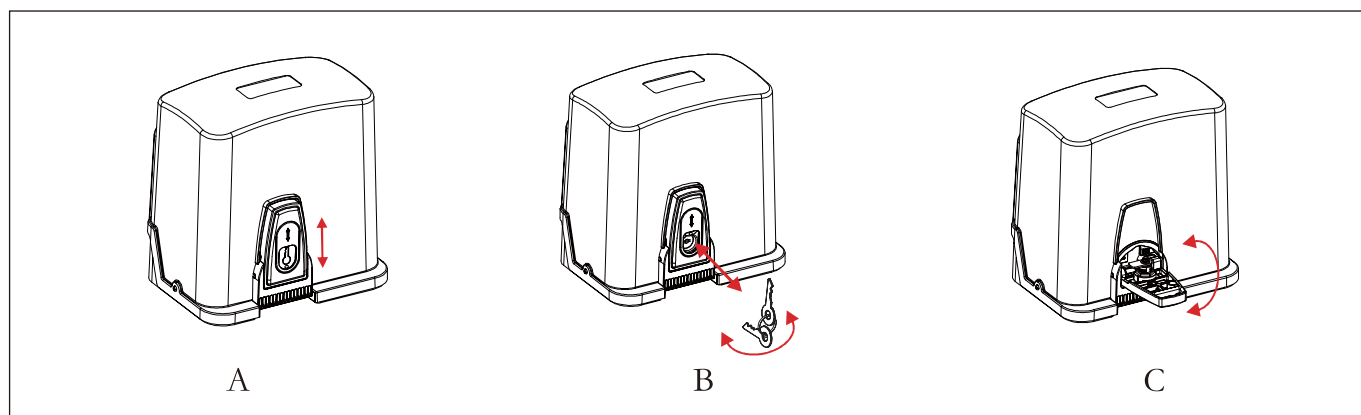
Install baseplate on the ground, then, fasten the sliding operator on the baseplate.
Key: Ensure baseplate on level position.



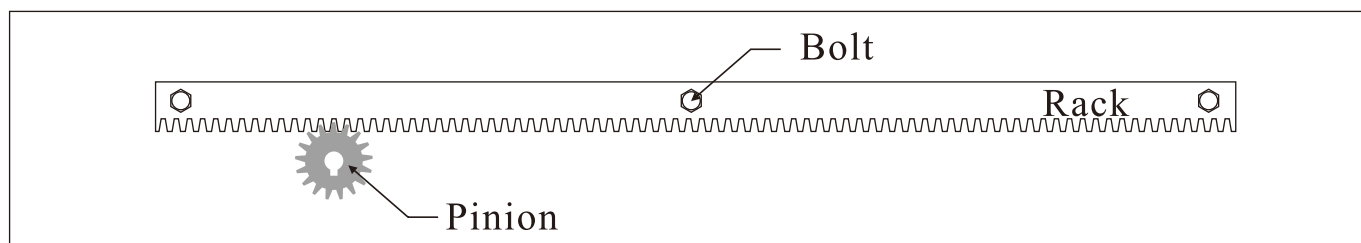
2.4 Fix the limit magnets at proper position on the steel rack.



Before place the limit magnets on the rack, the clutch (Gears) of the operator must be released. As per fig A or fig B, Use the key turn clockwise to release the gear.

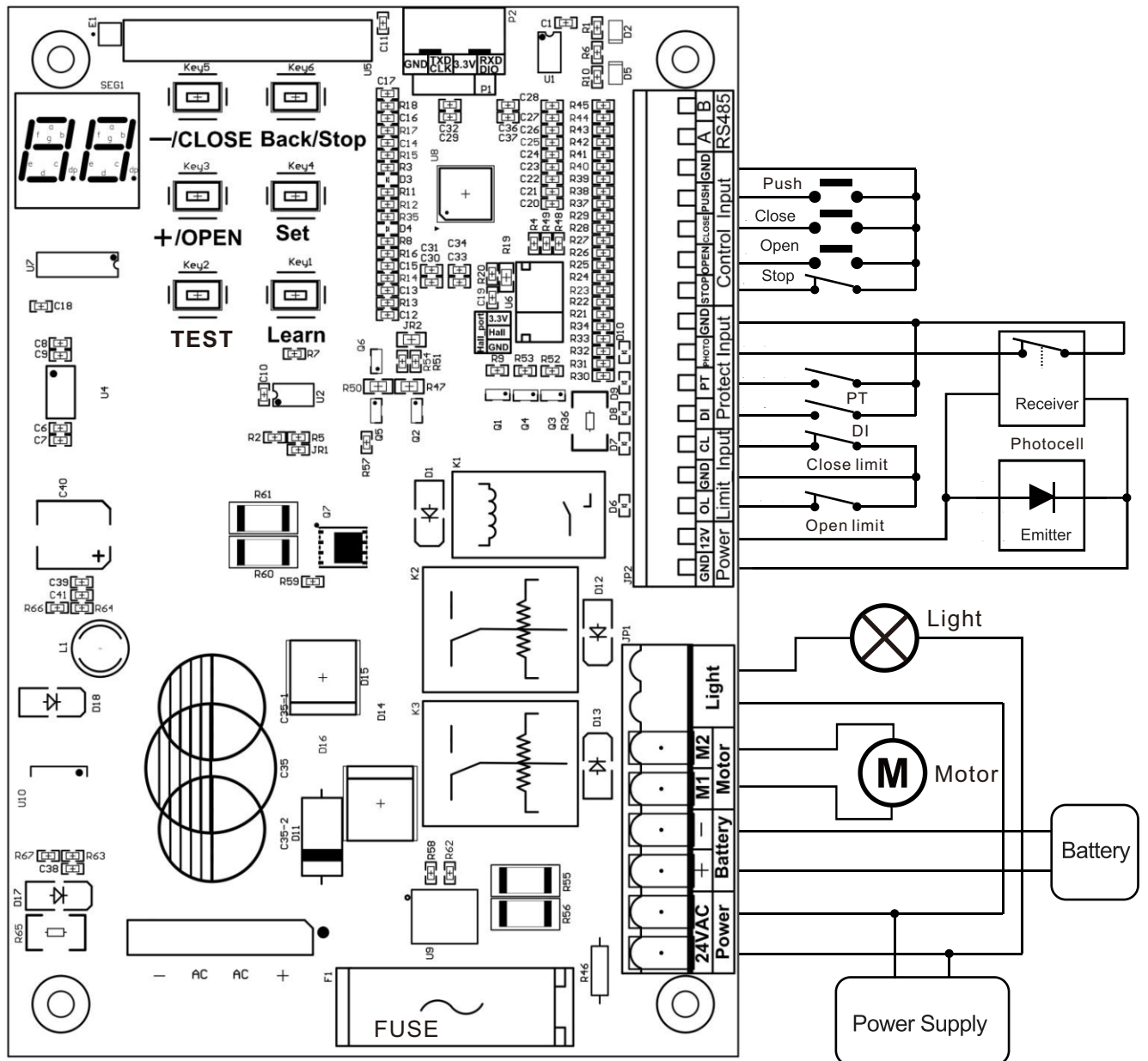


Move the gate manually to the open limit and close limit, mark the points on the Rack, then, fix the limit Stoppers or Magnets at the limit points on the Rack.



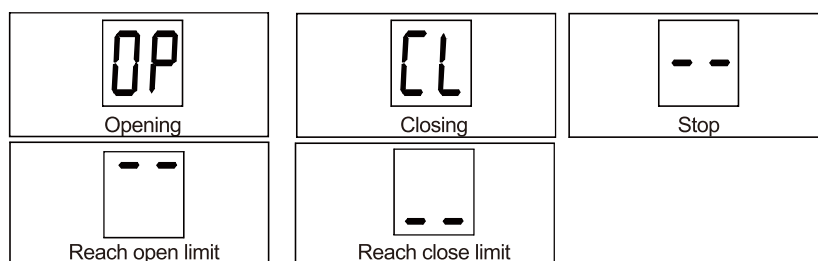
Note: The mesh gap between the Rack and the Pinion of the operator should be at least 1mm

3. Control Board Wiring diagram



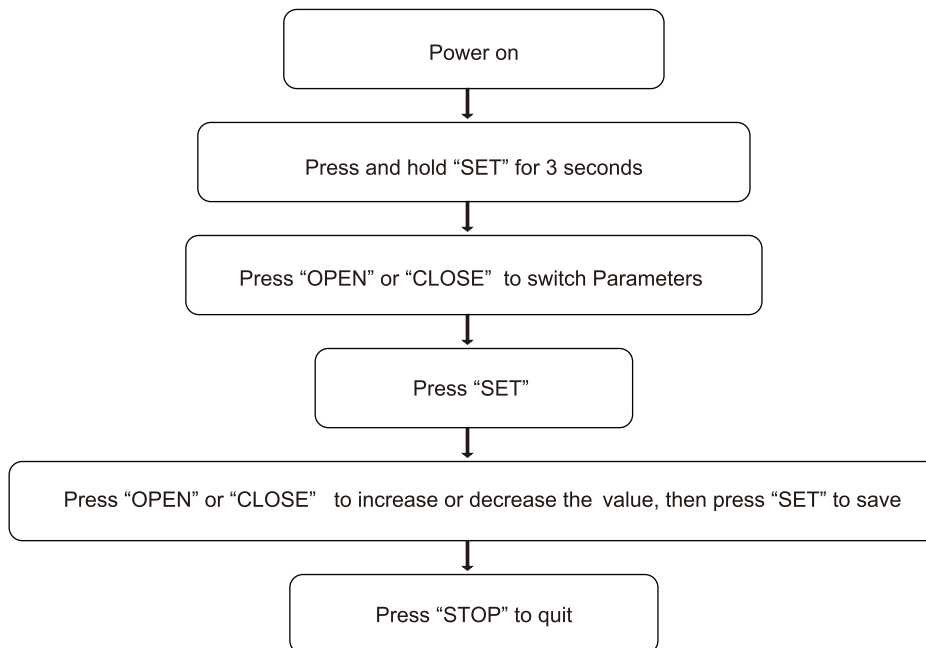
Function Description

Digital tube of operating status



3.1 Parameters Setting

No	Parameter	Description	Parameter
1	P1	Operator speed: 0-8,Min=0,Max=8	6
2	P2	Operator speed when the first time after power on: 0-8,Min=0,Max=6	2
3	P3	Reduce speed distance: 0-40	15
4	P4	Sensitivify of reverse when meet obstacle: 0-30	15
5	P5	Motor Direction, Left direction = 0, Right direction = 1	0
6	P6	Auto close delay time: 0-99, 0= no Auto close	0
7	P7	Soft stop reduce speed 1-6,1=slowest,6=fastest	1
8	P8	Relay function,Alarm lamp mode = 0, open limit =1,close limit =2, flash light = 3	0
9	P9	Remote control mode: 0= single button(T23) 1= three button (T26) 2= three button (T23)	0
10	C0	Default value is 0, and it display the operating status	0
11	C1	Restore factory settings, 1= Factory reset	0
12	C2	Time spent in pedestrian mode: 0-20	5
13	C3	Test mode,default value is 0, there is no need for adjustment	0



4.1 Protect Function Describe

IR(Infrared): When the infrared receiving signal is triggered, the door will open when closing, while other states remain unaffected.

PT(Press Test): When the pressure protection signal is triggered, the door will open when closing, while other states remain unaffected.

DI: When the signal is triggered, the door will open .And after the signal disappears, the door will close.

4.2 Soft Stop Setting

Move the gate to make the operator between the open and close limit points. Press the Test button for 3s until LED display changes. the operator will run automatically, trigger the two limit switches, and finally stop the gate between the two limit points. This indicates running stroke setting finished.

4.3 Transmitter's Code Setting

Press the "LEARN" button for 1s, the "LEARN" LED will light up. Then press and hold any button on the transmitter, until the "LEARN" LED flashes several times and then goes out. This indicates code setting is finished.

4.4 Erasing transmitter's code

Press and hold the "LEARN" button for about 8s until the "LEARN" LED goes out. This indicates all codes of transmitters are erased.

5. Trouble Shooting

No	Trouble	Possible Reason	Solution
1	Operator can not work	1. No power supply 2. Fuse is blown 3. Bad wiring or damaged wiring	1. Check power supply 2. Change fuse 3. Reconnect the wires
2	Operator is Working but gate does not move	Release clutch is unlock	Check the release clutch
3	Operator stops after opening 2s, or reverse after closing 2s	1.Obstacle or the gate is over weight 2.“Reverse parameter” is not proper	1.Remove obstacle, or decrease the weight of gate 2. Increase P4
4	Reverse when closing	1. There is obstacle in front of gate 2. Photocell is not triggered or damaged	1. remove the obstacle 2. Adjust or change the photocell
5	Operator is running even when gate reaches limit position	1. Limit magnet is broken 2. Limit magnet is not installed properly 3. The magnet pole is incorrect	1. Change limit magnet 2. Reinstall limit magnet 3. Adjust the magnet pole

Error Codes

No	Code	Meaning	Solution
1	E2	No hall sensor signal during operation	Check the hall connectors, or change the motor
2	E3	Motor not running	Check the motor wiring, or the limit switches.
3	E4	Motor current is over	Move away the obstacle or adjust the reverse level
4	E5	Photocell is triggered	Remove the object that block the photocell
5	E6	External stop signal triggered	Check the wiring or signal
6	E7	DI signal is triggered	Appears only upon trigger
7	E8	Limit switch wire not connected or limit switch faulty	Check the wiring or replace the limit switch