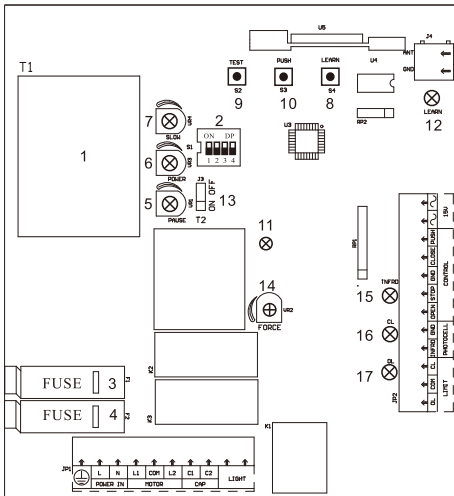


4. Control Board

Technical data

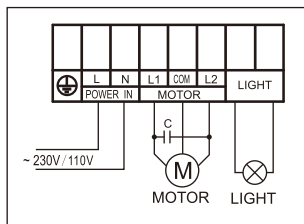
Power supply	230V 50/60Hz
Accessories power supply	AC15V 3W max
Operating temperature range	-20C~+55C
Pause time	1--100sec
Frequency	433Mhz

4.1 Layout of PCB and Definition

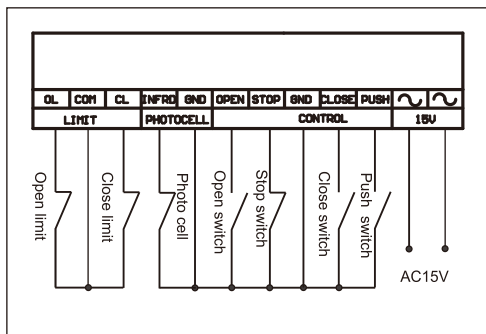


1. Transformer
2. DIP Switch
3. Fuse (0.2A)
4. Fuse (10 A)
5. Trimmer for pausing time
6. Trimmer for power regulation
7. Trimmer for slowing power
8. Learn button
9. Test button
10. Push start button
11. Power Led
12. Learn Led
13. Jumper for reverse function
(ON: Valid)
14. Trimmer for resistance of obstacle
15. Photocell Led
16. Close limit Led
17. Open limit Led

4.2 Diagram



Wiring Diagram 1



Wiring Diagram 2

4.3 DIP switch programming



DIP1:

ON: Enable auto-close

OFF: Disable auto-close

DIP2:

ON: Enable soft start

OFF: Disable soft start

DIP3:

ON: Enable soft stop

OFF: Disable soft stop

DIP4:

ON: Step by Step mode

OFF: No use



Vr4: Trimmer for motor power adjustment, it is used to avoid the gates moving at high speed towards the end of the opening and closing stages.



Vr3: Trimmer for pausing time, the gate's waiting time must be defined when it is in gate open limit status.



Vr1 : Trimmer for power adjustment of slowing status.

4.4 Running time programming

After finish the installing and connecting, Power on, and Press "Test" for 3 second, the gate will open and close at the limit point one cycle, the running time is remembered by the control system.

If no limit stopper or limit magnet on the rack, you also can press "Test" when the gate open and close to the right limit points.

4.5 Transmitter's code setting

Press "LEARN BUTTON", the "LEARN LED" light, then, press the button which you choose on the transmitter till the "LEARN LED" flash and go out, Now, the transmitter is coded. Other transmitters can be coded as this way

Specification maybe changed without a prior notification.

4.6 Erasing the transmitter's code

Erasing transmitter codes: Press "LEARN BUTTON" and hold on to make the "LEARN LED" light till go out. Now, all codes of transmitters which had been learnt are cleared.

5. Trouble Shooting

Number	Trouble	Cause	Shooting
1	motor can not work	<ul style="list-style-type: none"> *No power supply *Break fuse *capacitor decay *Surpass load *Effected by the thermal protection 	<ul style="list-style-type: none"> *Check power supply *Change fuse *Change capacitor *Check if any barrier on track *Restart after 20 minutes
2	Can open (close) but can not close (open)	<ul style="list-style-type: none"> *Position of limit switch is not correct *Limit switch is damaged *whether L1\COM\L2 wires are connected wrong *Magnetic-steel dropped and position isn't right 	<ul style="list-style-type: none"> *Adjust position *Change limit switch *Connect correctly according to wiring diagram *Re-adjust magnetic-steel position
3	can not locate accurately	<ul style="list-style-type: none"> *Distance of limit switch is too large * limit switch is *whether COM, CLOSE, OPEN were connected *magnetic-steel' s position is wrong 	<ul style="list-style-type: none"> * Adjust position of limit switch *Change limit switch *Connect correctly according to wiring diagram *Re-adjust the position
4	Release device	<ul style="list-style-type: none"> *Operating handle is broken * Worm gears are jammed 	<ul style="list-style-type: none"> *Change the handle *Rotate the pinion
5	Push the “open” button but the gate close	<ul style="list-style-type: none"> * whether L1\L2wires are connected wrong 	<ul style="list-style-type: none"> *Connect correctly according to wiring diagram
6	Motor can turn but can not work	<ul style="list-style-type: none"> * Compression spring of clutch is dead * Gear box is released 	<ul style="list-style-type: none"> * Change the spring * Couple the worm gear

