# SLIDING GATE OPENER CONTROL BOARD SL18XX USER MANUAL

A5

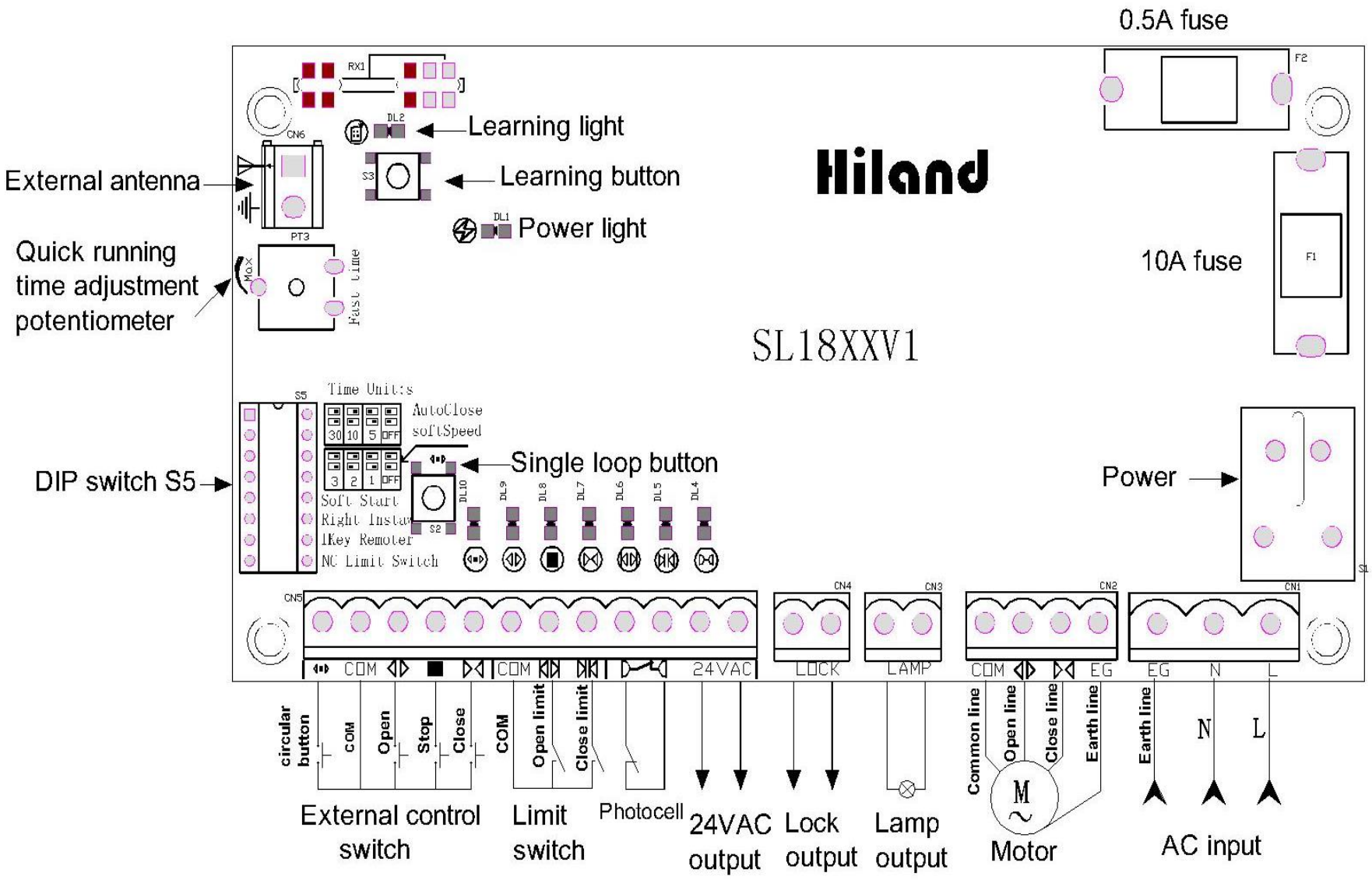
## I Safety Instruction

1.1 For security, please read instructions carefully before initial operation; making sure that the power is off before connection.
1.2 Please clear the memory before initial operation. (Ref.: Erasing ALL learned/memorized Transmitter
1.3 Do not learn the remote control when motor is operating in order to avoid mis-operation.
1.3 The received signal may be interfered by other communication devices. (e.g. the wireless control system with the same frequency range)
1.4 This product is only used for the equipment which will not cause life or property hazards when a breakdown happens or its security risks have been already eliminated
1.5 It should be applied in dry indoor place or in the electric appliance place.

## II Technical Index

2.1 Working voltage: 220VAC/110VAC,50Hz/60Hz
2.2 Temperature range: -20℃ to 60℃
2.3 Loading capacity : 1 HP 220VAC ; 0.5 HP 110VAC
2.4 Built-in fuse: electric circuit(0.5A); Motor(10A),Please exchange appropriate fuse accoding to loading capacity
2.5 Soft-start time:1S. Soft-stop time = 127s - quick running time
2.6 Qucik running time: Adjustable from 3s to 120s ----PT3 is to set up
2.7 Frequency: 433.92MHz
2.8 Transmitter stored: 30PCS
2.9 Output voltage: AC24V
2.10 Output with electric lock: normally-closed contact
2.11 Output with flash lamp: AC220V/AC110V
2.12 External switch (open,stop,close in a loop)
2.13 External limit ( DIP8 to select NO and NC)
2.14 External infrared (NC contact)
2.15 Auto close time is adjustable: (5S,10S,30S are optional by using DIP1,DIP2)
2.16 Soft start function is optional by DIP5
2.17 Installation at left or right side is optional by DIP6.
2.18 Single / three button control is optional by DIP7
2.19 Size: 155*77*38mm
2.20 Weight: 333g

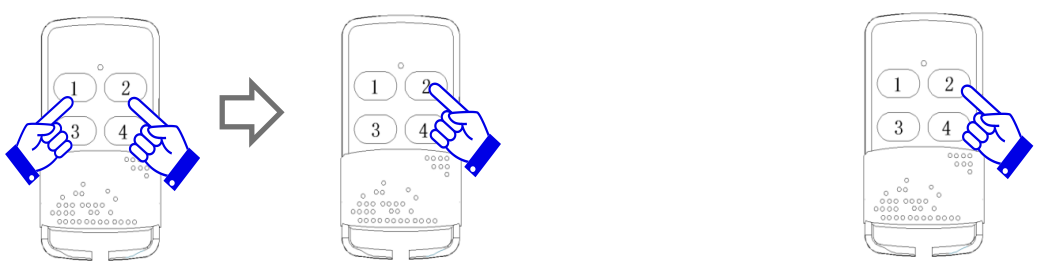
## III Wire connection




## IV Set up

**4.1 Learning and erasing transmitters by receiver:** Press the learning button S3 in the board, LED DL2 is on, enters into the learning process; Press the same button twice, LED blinks for several times, then off. The learning process is successful. Press the learning button, continue pressing for 8s until LED turns off; Release learning button, LED will be on (about 1s) and then off; the erasing process is successful. (Ignore this step if transmitter already matches the opener before delivery).The board can learn 30pcs transmitters max.

**Self-learning function:** Use the transmitter that already has been learned as old transmitter, press button 1 and button 2 at the same time and then press button 2 to let it enters into the learning process .Press the same button on the new transmitter twice. The learning process done. In this way , new transmitter can be learned without pressing the learning button on the control board.




Old one Old one New one

**4.2 Opening/closing limit adjustment:** Remote control the door ( or move the door manually ) , adjust the position of limit device to make sure the door would touch the limit switch when open or close the door .LED LD6/DL5 in the controller will be off when limit device touches limit switch(Limit switch is NC).

**4.3 External infrared switch:** Photocell connector connects the NC contact of photocell switch , DL4 LED turn on after the connection, And DL4 LED turn off when blocking out the transmit or receive signal of photocell artificially. Infrared sensor doesn't react when door openning and the door will reverse to limit point if photocell signal disconnect when door closing. If no need of using photocell protection, make the connector of photocell short circuit with terminated line(the connector is short circuit when leave factory).

**4.4 Quick running time set up:** It is adjustable from 3s to 120s. Adjust potentiometer PT3 (FastTime) to adjust the quick running time of motor. It increases the time when adjust it Clockwise,reduces the time when anti-Clockwise

**4.5 Motor max running time = Quick running time + Soft stop time = 127 seconds**
**Speed of quick running time is about 0.2 meter per second . Speed of soft stop running time is about 0.06 meter per second.**

**4.6 Flash lamp:** It keeps lighting when open or close the door .After door is fully closed, it will keep lighting for 90 seconds.

**4.7 DIP switch S5 logic function:**

| DIP1 | DIP2 | Auto close time |
|---|---|---|
| OFF | OFF | No auto close |
| OFF | ON | 5S |
| ON | OFF | 10S |
| ON | ON | 30S |

DIP3 DIP4 Function Cancel

| DIP5 | Soft start function |
|---|---|
| ON | Turn on soft start function |
| OFF | Disable soft start funtion |

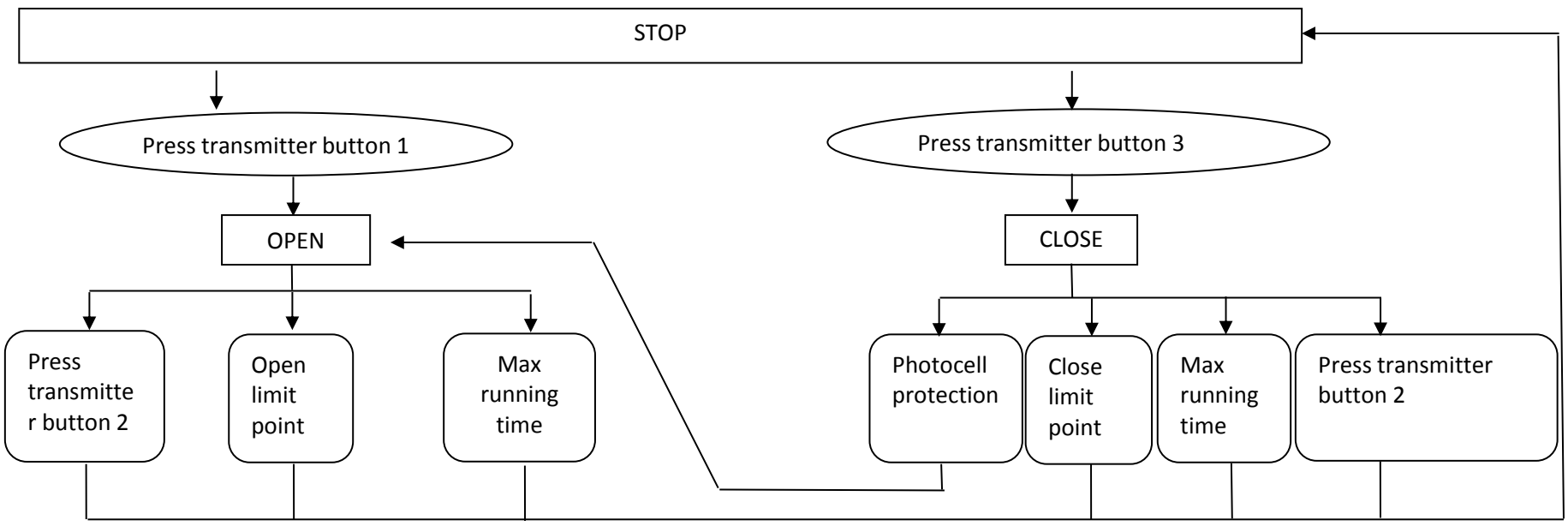
| DIP6 | Right/left side installation |
|---|---|
| ON | ON or OFF can change the current operating direction of motor |
| OFF | |

| DIP7 | |
|---|---|
| ON | Single button control |
| OFF | Three button control |

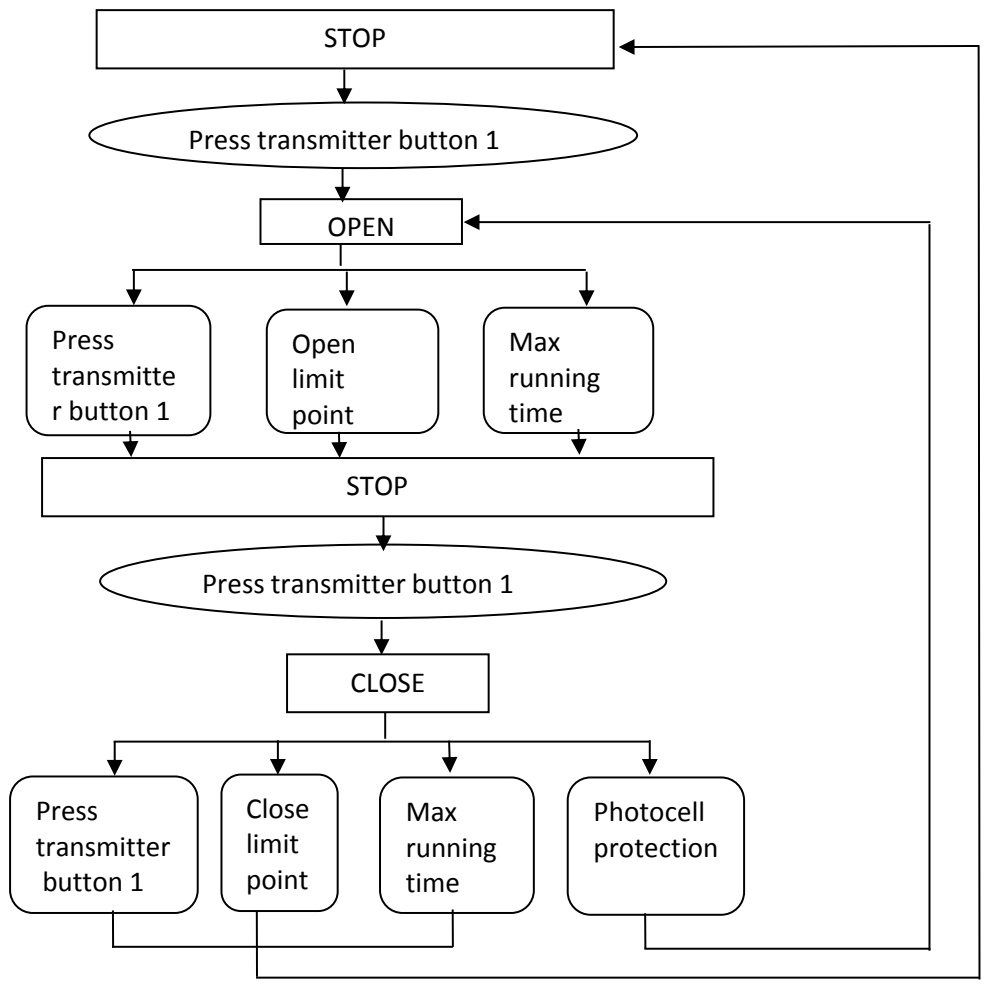
| DIP8 | |
|---|---|
| ON | External limit NC switch |
| OFF | External limit NO switch |

## V Operation Instruction

5.1 Three button control process (DIP 7 at OFF position)




5.2 Single button control process (DIP 7 at ON position)




**Description:**
Single button control , press-open-press-stop-press-stop; Only the learned button is effective in the transmitter, original button is not effective any more when a new button has been learned in the same transmitter (For example, button 1 was learned firstly, button 2 or 3 has been learned of the same transmitter afterwards , then button 1 was not effective any more)

## VI Notes

6.1. Photocell protection switch shall be examined regularly.

## VII Model difference

| Model | Working voltage | Transmitter stored (pcs) | Model | Working voltage | Transmitter stored (pcs) |
|---|---|---|---|---|---|
| SL1800 | 220VAC | 30 | SL1898 | 220VAC | 30 |
| SL1801 | 220VAC | 300 | SL1894 | 220VAC | 300 |
| SL1820 | 110VAC | 30 | SL1896 | 110VAC | 30 |
| SL1821 | 110VAC | 300 | SL1892 | 110VAC | 300 |