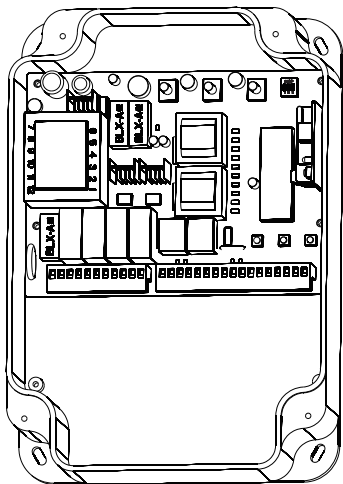


# MV08

## CONTROLLER BOX



PKM1.2K

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



## WARNING TO THE INSTALLER AND USER

- 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 instructions in a safe place for future reference.
- 3) This product was designed and manufactured strictly for the use indicated in this document. Any other usage not expressly indicated in this Document, may damage the product and/or be a source of danger.
- 4) **Carbone** accepts no responsibility due to improper use of the automatic machine ( opener ) or use other than that intended.
- 5) Do not install the machine in an area subject to explosion hazard. Inflammable gasses or fumes are a serious safety hazard.
- 6) **Carbone** will not accept responsibility if the rules of good workmanship disregarded in installing the closing elements to be motorised, if any deformation occurs during use of the said elements.
- 7) Before carrying out any work on the system, turn off the electricity supply.
- 8) 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.
- 9) BS accepts no responsibility regarding safety and correct operation of the machine, should components made by manufacturers other than we be used in the system.
- 10) Do not make any alterations to the components of the automatic machine ( opener and accessory).
- 11) The installer must supply full information regarding operation manual of the system in the event of any emergency and provide the system user with the "INSTRUCTION" included with the product.
- 12) Do not allow children or other people to stand near any moving part of the opener or door construction while in operation.
- 13) Keep transmitters away from children to prevent the machine from being activated accidentally.
- 14) The user must refrain from attempting to repair or adjust the system personally and should only contact professional personnel .
- 15) Frequently examine the installation, in particular check cables, springs and mountings for signs of wear, damage or imbalance .Do not use if repair or adjustment is needed since a fault in installation or an incorrectly balanced door may cause injury.

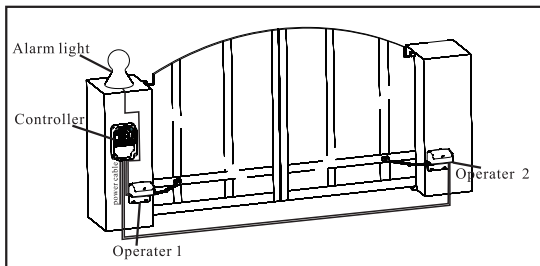


- 16) This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- 17) If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- 18) Disconnect the supply when cleaning or other maintenance is being carried out, if the appliance is automatically controlled.
- 19) The temperature range marked on the drive should be suitable for the location.
- 20) The electrical cord plug must plug in indoor outlet or waterproof cover outlet.
- 21) Ensure that entrapment between the driven part and the surrounding fixed parts due to the opening movement of the driven part is avoided.
- 22) After installation, ensure that the mechanism is properly adjusted and that the protection system and any manual release function correctly.
- 23) Permanently fix the label concerning the manual release adjacent to its actuating member.
- 24) The drive cannot be used with a driven part incorporating a wicket door.

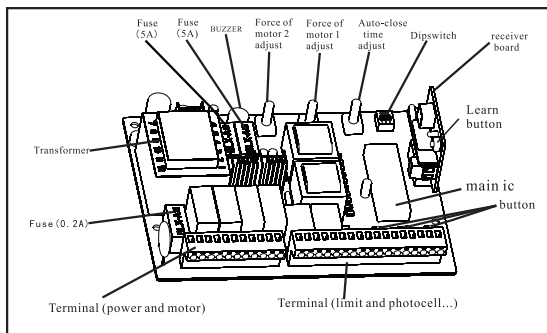
## 1. Technical Specifications:

Power supply	~110V(10%)60HZ
Transformer	~110V/24V/12V/10W
Accessories max loaded	200mA(AC24V)
Environment temperature	-10°C~450 C
Protection fuse	5AX2
Force	Adjustable
Running time protect(Max)	60S
Auto close time delay	Programmable(0~99)
E_LOCK	Relay out

## 2. Example of a sliding gate operator installed:









## 3. Controller:



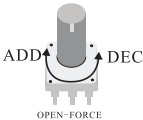

### 4.1 Button instruction :

- S1 : Open the gate and increase 1 every once push when adjust the interval time between left and right leaf.
- S2 : Close the gate and decrease 1 every once push when adjust the interval time between left and right leaf.
- S4 : Stop the gate when the gate is running. Set the interval time between left and right leaf when the gate is stopped.

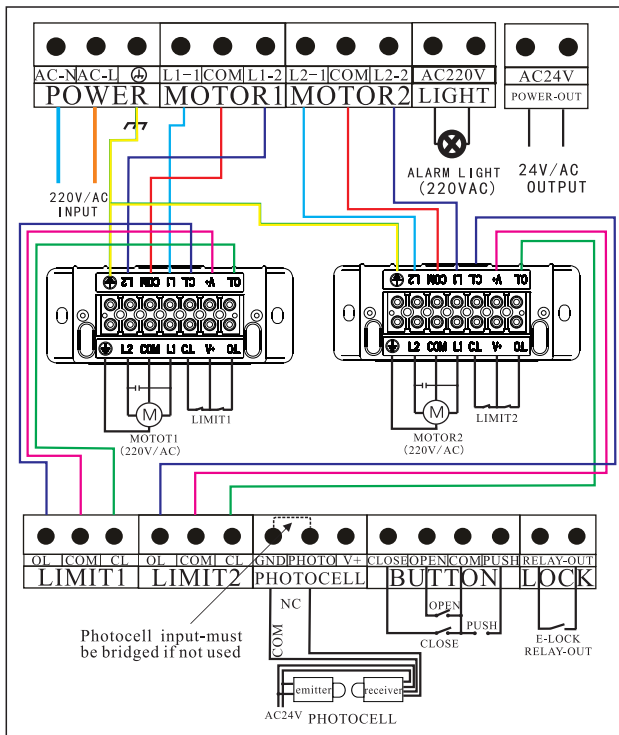
#### 4. 2 Dip-switch (S3) setting:

	Auto-close function is available
	Auto-close function is invalid
	Force test
	Cancel force test function
	E-lock not work
	Cancel E-lock function

Force of Motor: \_\_\_\_\_

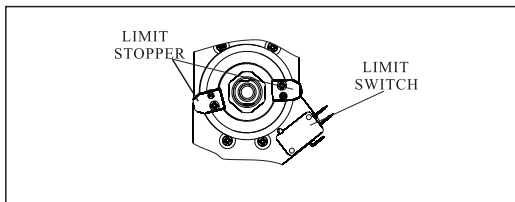
	Adjust the force of Motor1 Clockwise is more , Anticlockwise is less
	Adjust the force of Motor2 Clockwise is more , Anticlockwise is less

### 5. Connection of Motor:

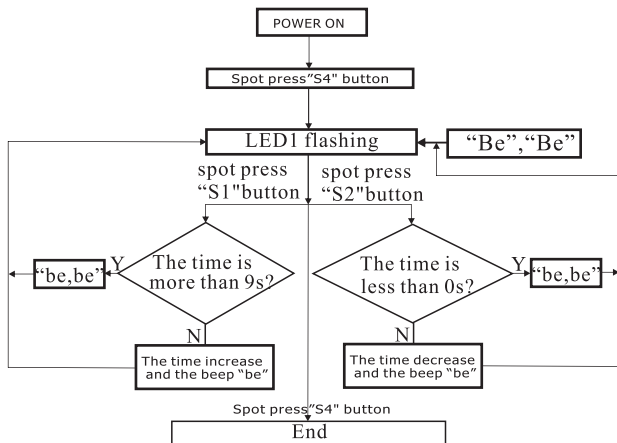


\*If the gate is only 1 leaf, the motor must be connected with "MOTOR1" and "LIMIT1".

\*If the gate is 2 leaves, first, it must be confirmed with one leaf is the priority opening one. The priority opening leaf must be connected with "MOTOR1", the other one is connected with "MOTOR2"



**Set delay time between 2 motors operating:**



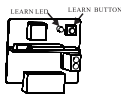


### 8.1: Setting transmitter code:

**First**, press "LEARN BUTTON" once, the "LEARN LED" light, then, press the button you choose on transmitter till the "LEARN LED" flash and go out, **This button control double-leaf.**

**Second**, press "LEARN BUTTON" twice, the "LEARN LED" light, then, press another button you choose on transmitter till the "LEARN LED" flash and go out, **This button control leaf open.**

**Now**, the transmitter is coded, Other transmitters can be coded as this way.



### 8.2: Earsuring 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.

## 9. Trouble Shooting:

Number	Trouble	Cause	Shooting
1	Motor not working	<ul style="list-style-type: none"> <li>*No power</li> <li>*Break fuse</li> <li>*Not connect limit</li> <li>*Motor is damaged</li> </ul>	<ul style="list-style-type: none"> <li>*Check power supply</li> <li>*Change fuse</li> <li>*Connect the limit</li> <li>*Change the motor</li> </ul>
2	Only one motor working	<ul style="list-style-type: none"> <li>*The interval time between left and right leaf is very long</li> <li>*The motor (or limit switch)not connect with control board .</li> </ul>	<ul style="list-style-type: none"> <li>*Decrease the interval time</li> <li>*Connectthe motor cable or limit switch.</li> </ul>
3	Can open (close) but can not close (open)	<ul style="list-style-type: none"> <li>*Position of limit switch is not correct</li> <li>*Limit switch is damaged</li> </ul>	<ul style="list-style-type: none"> <li>*Adjust position</li> <li>*Change limit switch</li> </ul>
4	can not locate accurately	<ul style="list-style-type: none"> <li>*Distance of limit switch is too large</li> <li>*Limit switch is wrong</li> <li>*Magnetic- steel's position is wrong</li> </ul>	<ul style="list-style-type: none"> <li>*Adjust position of limit switch</li> <li>*Change limit switch</li> <li>*Re-adjust the position</li> </ul>
5	Release device	<ul style="list-style-type: none"> <li>*Operating handle is broken</li> <li>*Worm gears are jammed</li> </ul>	<ul style="list-style-type: none"> <li>*Change the handle</li> <li>*Rotate the pinion</li> </ul>
6	Motor can turn but can not work	<ul style="list-style-type: none"> <li>*Clutch is released</li> </ul>	<ul style="list-style-type: none"> <li>* Use the key to couple the clutch</li> </ul>