



VOLT GATE

Model : VSB 02 6M-2-6S



Automated Vehicular Beam Gate System.
Installer and User 's Manual. Technical
specifications. Installing and adjusting. Adjust
the vertical and horizontal line of the Beam.
Electrical safety devices. wire diagram. Failure
analysis and excul.



VSB 02 6M 2-6S L or R

Lane Width :Up to 6M with telescopic beam or full length beam with traffic Led optional

Opening / closing Time :>=2s **Power supply**: 24V/DC.10A

Power Consumption Max :120W

Frequency :50-60Hz

Ingress Protection : IP54

Temperature : -20°C to +60°C

Humidity : <90%

Housing Dimensions(WxDxH) : 310 x 340 x 1020mm

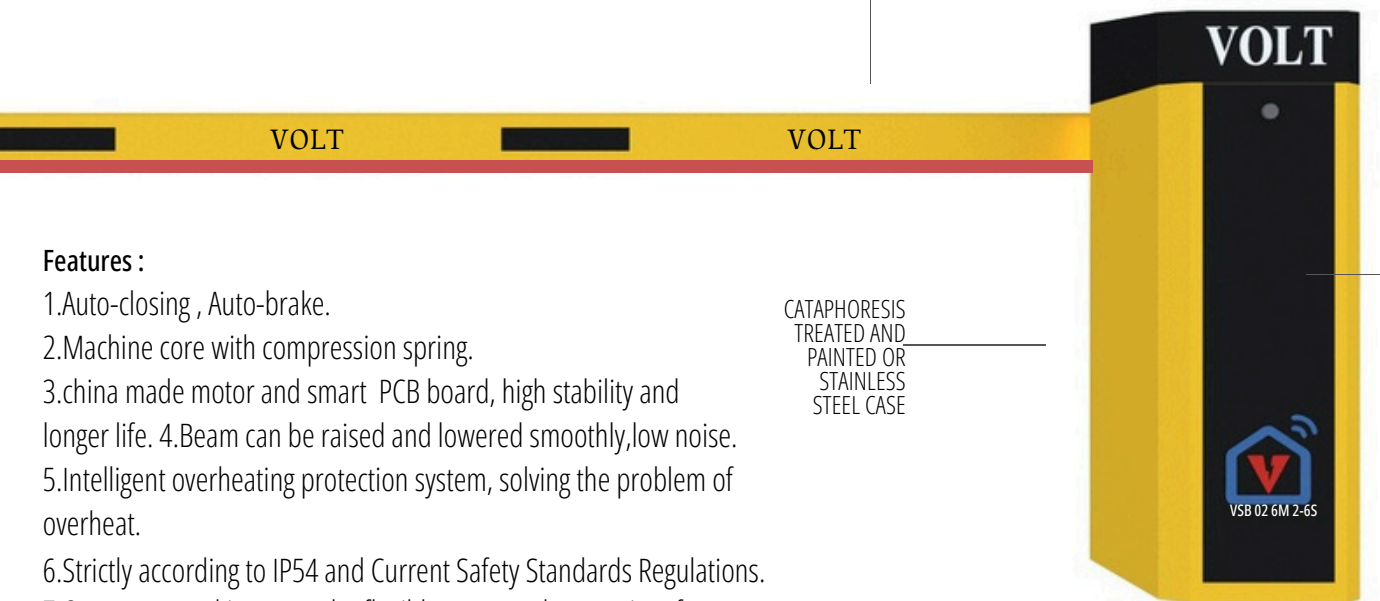
Cabinet Material :Powder coated steel (anti - rust & anti - fading)

Beam Material :Aluminum Alloy

Base Frame :Cast Iron **Motor**: 24V DC brushless motor

ELLIPTICAL
SECTION
BAR WITH HIGH
WIND- GUST
RESISTANCE

REMOVABLE
COVER FOR EASY
THE
ACCESS TO
INSIDE PARTS



Features :

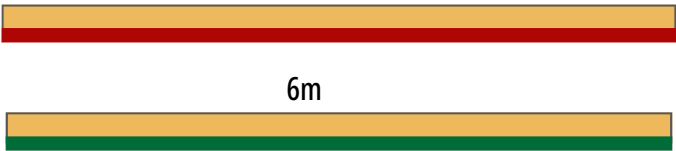
- 1.Auto-closing , Auto-brake.
- 2.Machine core with compression spring.
- 3.china made motor and smart PCB board, high stability and longer life.
- 4.Beam can be raised and lowered smoothly,low noise.
- 5.Intelligent overheating protection system, solving the problem of overheat.
- 6.Strictly according to IP54 and Current Safety Standards Regulations.
- 7.Outer case and inner can be flexibly separated convenient for maintenance.
- 8.Simple installation — just to fix the barrier gate on floor and connect it to electricity.
9. Led traffic arm with rubber cover.
10. 2mm thickness base plate with anchor bolt.
11. It can be added to any access control or reader because it uses adry contact relay system.



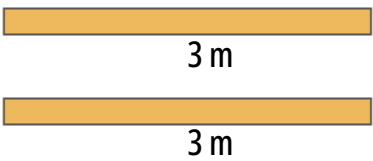
SELECTION GUIDE, BARS AND ACCESSORIES



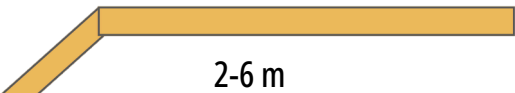
Normal Arm
- full Arm With 6m Bar .



Normal Arm
- Full Arm With 6m Bar and Led.



Telescopic Arm
- With 6 m bar (3+3 m)*



Arm Carrier
A. Fixed Carrier
B. Movable Carrier



Traffic Light

- 100 cm traffic light
- 200cm traffic light
- 300cm traffic light
- Led arm traffic light



6. Gate commissioning steps

Step 1: Gate rod and spring matching:

Stop the gate lever at about 45 degrees and check whether the rod will slowly close or open (if the spring tension is too strong (allow the lever to open slightly larger), if the brake is not enough)

Step 2: Gate self-test learning switch limit:

1. The motherboard starts normally (display "190"), long press the motherboard "key" for 2 seconds, the gate runs to the closing direction, the motherboard shows the number is reduced, when the motor runs to the limit, the motherboard displays back to "190", and the self-check is completed.
2. After the self-inspection is completed, press the motherboard "open key" for 2 seconds. When the gate runs to the opening direction, the motherboard display number increases.

Step 3: Adjust the horizontal and vertical position of the lever:

1. After the rod exceeds 90 degrees (overtune the L-9 parameter);
the rod is less than 90 degrees (reduce the L-9 parameter)
2. Close the bar above the horizontal (reduce L-6 parameters);
rod below the horizontal (increase L-6)

Note:

1. Determine whether the horizontal position of the gate railing and the advertising gate is in place (the pole will stop immediately after contacting the ground motor). If the motor is still in place, the L-6 parameter should be adjusted until the motor does not rotate after the pole reaches the ground;
2. After debugging the parameters, the switch needs to be run once to see the position changes,



Operation steps of the motherboard keys

Step 1

Long press the main board menu key until the L-1 is displayed

Step 2

press the motherboard "key" or "key" to select the menu directory, if you need to enter this directory, press the motherboard "menu" key, you can enter.

Step 3

need to change the menu directory parameters, after entering the menu directory by "open" "off" key increase or reduce the menu parameters, change if need to change other directory parameters, press the "menu" key back to the main menu directory, press the second step to continue to change, if not change other parameters can directly press the motherboard "confirm" key to save the exit menu.

Power supply voltage overvoltage prompt 1 . When the power supply voltage is higher than the working voltage of the motherboard, the display screen displays "E-8", and at the same time, the buzzer sounds for a long time, causing the motherboard to stop working. 2 . 24V motherboard, when the power supply voltage is higher than 26.5V, it is considered as overvoltage. At this time, the display screen displays "E-8", and at the same time, the buzzer sounds for a long time, and the motherboard stops working. 3 . When the power supply voltage of the 36V motherboard is higher than 40V, it is considered as overvoltage. At this time, the display screen displays "E-8", and at the same time, the buzzer sounds for a long time, causing the motherboard to stop working.



Remote control function

1: Remote control matching

Step 1: Long press the "Menu" key to enter the menu, select the L-F option, click the "Menu" key to display 000, and then enter the remote control settings.

Step 2: press the remote control "any key" at this time the motherboard rang, display to "L-F" to match the remote control success step 3: press the "OK" key to save, the configuration is finished

2: Remote control clearance

Step 1: Long press the "Menu" key to enter the menu, select the L-F option, click the "Menu" key to display 000, and then enter the remote control settings

Step 2: Set the parameter to 253, and then the main board display will automatically return to the L-F interface. At this time, the remote control clearance is successful, and press the confirmation key to save and exit.

3: Fleet mode

Step 1: Set the motherboard L-8 parameter to 4 first (refer to L-8 menu description)

Step 2: After the gate is in place, press the remote stop key for 2 seconds, and the fleet mode is on; just close the fleet mode.

Restore the factory settings

Long press the motherboard "OK" key to wait for the buzzer long sound three times after the release of the button, then all parameters will restore the factory default value.



VOLT

Installer and User's Manual

Please read carefully before using

Automatic Beam Gates are not for Pedestrians!

Automatic gate openers are designed for vehicular traffic. They are powerful and can cause serious bodily injury or death. Accordingly, direct all pedestrian traffic to a separate walk-through gate.

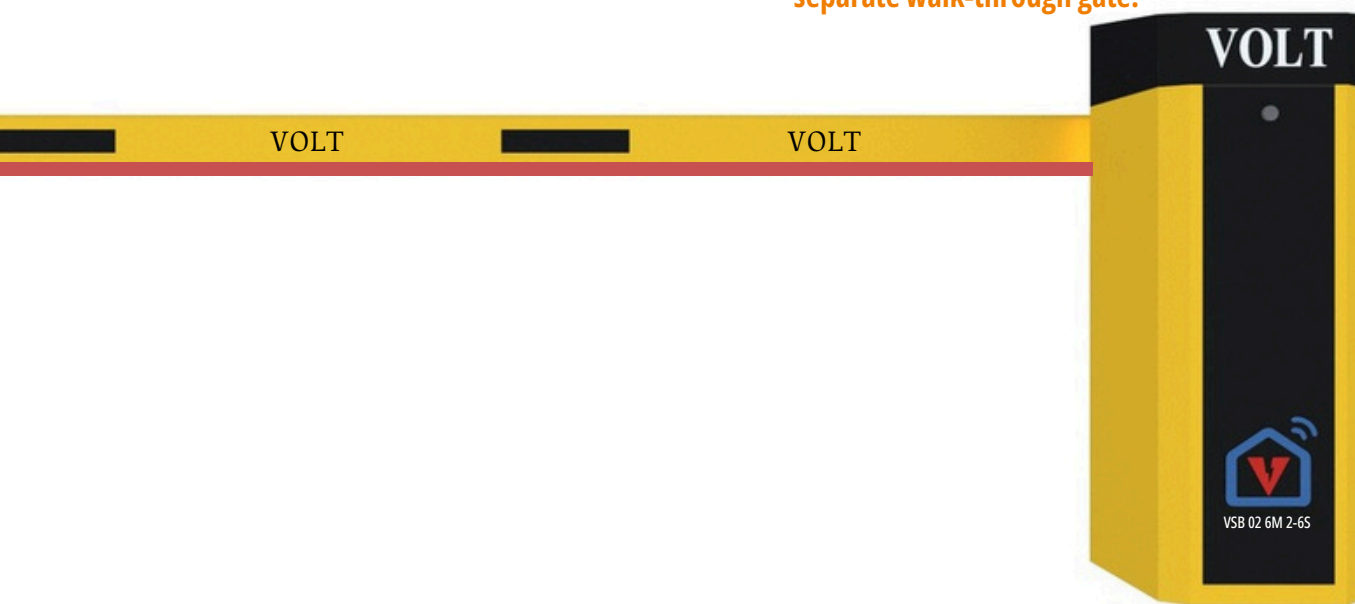
4. Do not change the original inside wiring. 5. If power failure, please switch off the power supply first, then open the door and rotate the handle on the motor manually to open the beam completely. 6. Keep the automatic control (push-button, remote control, etc) out of the reach of children. The control system must be installed at a minimum height of 1.5m from the ground surface. 7. Use transmitters or button only where you can see the gate clearly. 8. Never open the door or the cover of the cabinet when the machine is connected to power supply.

1. Before starting installation and operation or maintenance, cut off power supply.

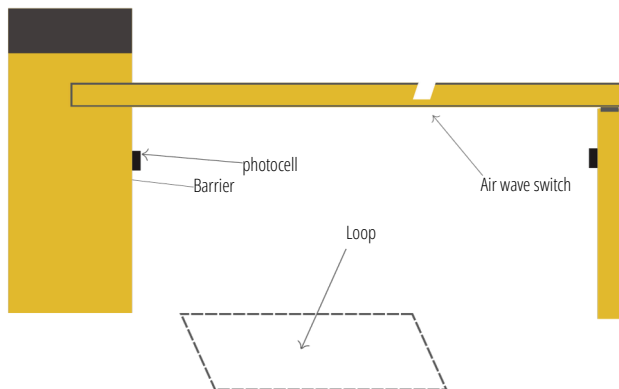
2. The product must be earthed. And an earth leakage breaker is necessary on the power supply.

3. As for electric cable type and section, we suggest to use the cable type of <HAR> with minimum section of 2.0mm

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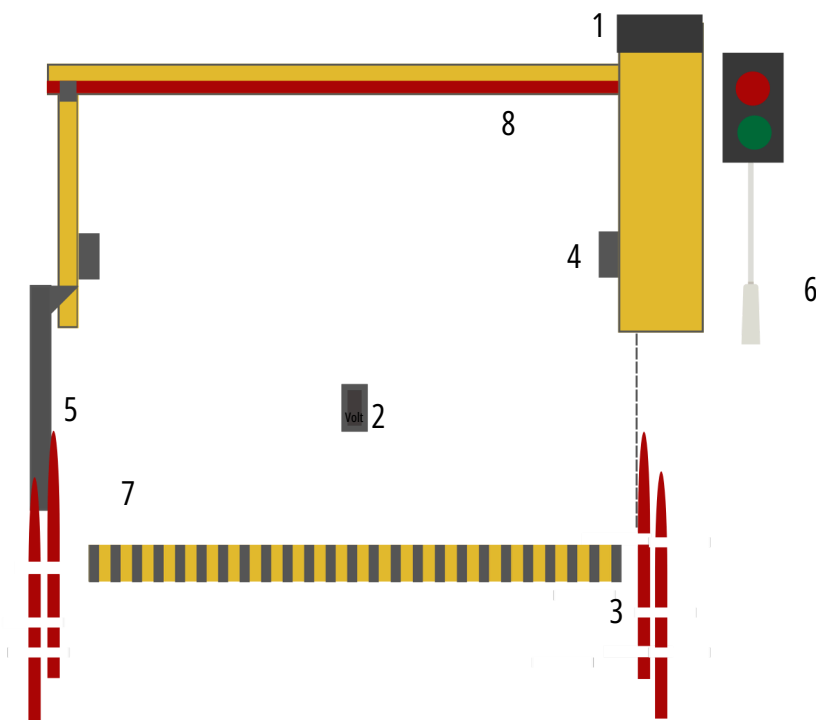
ELECTRICAL SAFETY DEVICES



The Barriers limit switches , motor and control unit are already connected up.

Only the photo cells , the loop detector and the supply voltage have to be connected up in installation.

INSTALLATION DIAGRAM



- 1. BARRIER
- 2. REMOTE CONTROL
- 3. ROAD SIGNS
- 4. PHOTOCELLS
- 5. CARD READER
- 6. TRAFFIC
- 7. SPEED RAMPS
- 8. LED

AND THERE ARE MORE
ACCESSORIES IN LAST PAGE



Failure analysis and exclusion

1. The self-inspection is not successful, and the road gate is not running normally

Solution: Check whether the left and right rotation mode of L-d motor matches the current motor (restart the main board to self-check after changing the parameters, whether the gate self-check is normal, please refer to "Chapter 14, gate self-check learning switch limit process")

2. The vertical or horizontal position of the gate rod is not in place

Solution: By adjusting the motherboard menu L-9 or L-6 parameters (refer to the menu table)

3. How to correctly judge whether the channel switch is really switched in place

Solution: a. Set the motherboard L-18 parameter to 1. If the switch is in place or the relay will act once, it means that the switch on / close is in place

b. Observe whether the motor stops when the switch lever is in place and that it is in place. If the switch lever is in place and the motor is still running, the L-6 or L-9 parameters should be changed.

4. The blocked rebound function is invalid

Solution: a. Check whether the L-C parameters will open with blocked rebound (motherboard parameters greater than 100, blocked rebound function failure)

In b. After the motherboard needs to enter the menu and exit, the motherboard needs to open in place and run twice, and the rebound function is effective.

5. The gate suddenly runs in the opposite direction during its normal operation

Solution: Increase the value of the L-C encounter resistance rebound function parameter.



Notes and Warranty

1. Notes:

- (1) The power supply must be 24V voltage, and the load current must be above 10A
- (2) If the motor wire is connected correctly and the motor wire is connected incorrectly, it cannot operate
- (3) Whether the functional parameters are set correctly, which may cause abnormal gate operation.

2. Warranty:

1. This product can be replaced free for one year due to quality problems.
2. Product faults caused by the following circumstances are not included in the warranty

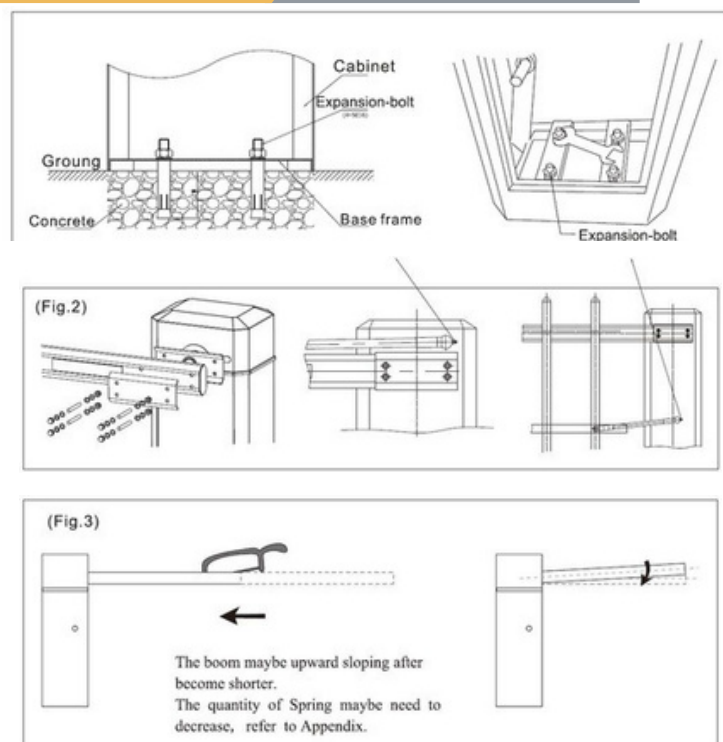
- 1) Product failure due to improper use conditions, such as unqualified power supply, and the ambient temperature exceeds the upper limit of the product.
- 2) Product failure or damage caused by man-made accident, misoperation or unloading process.

Installing and adjusting

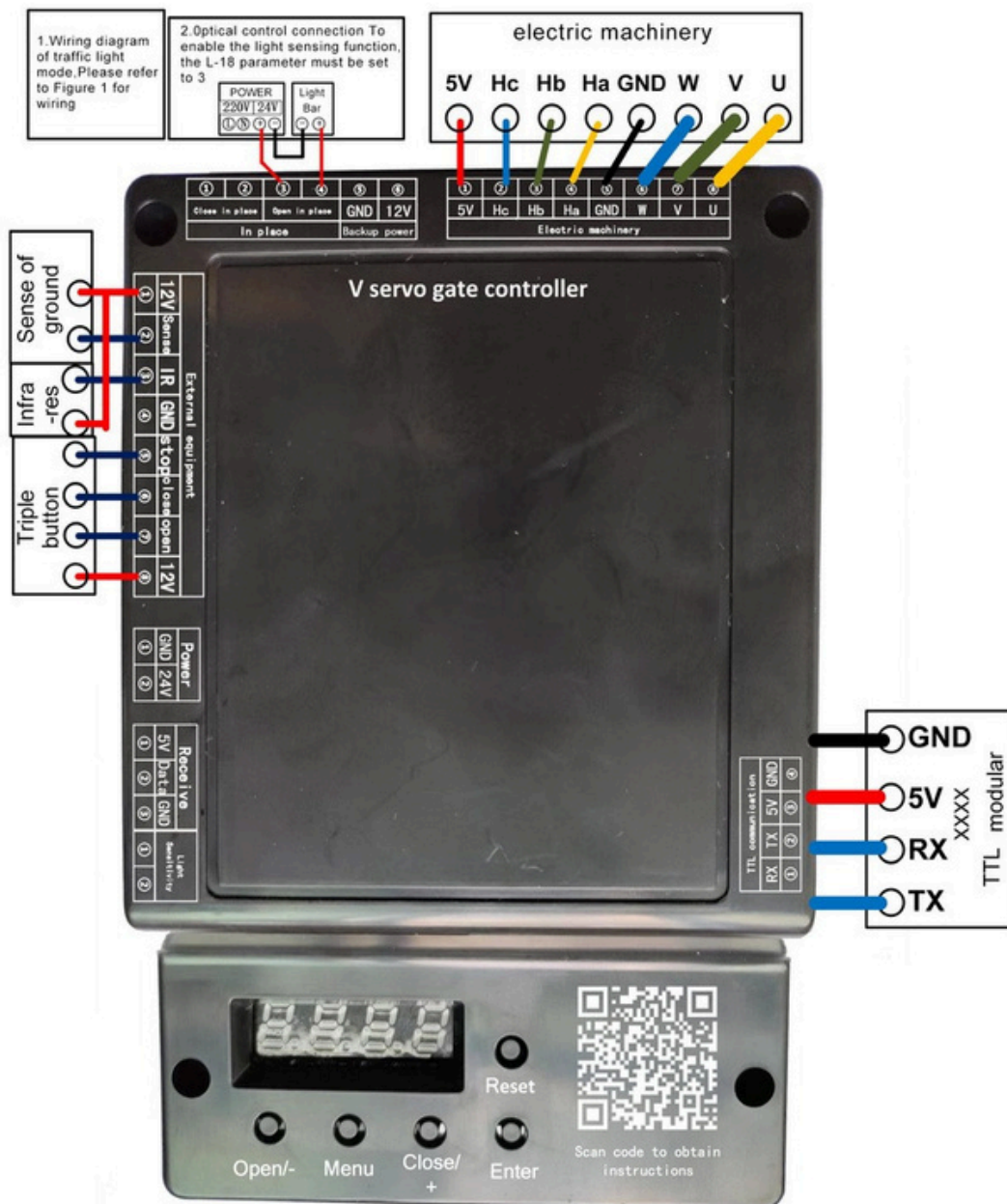
1. Install the machine on the ground(fig1)

2. Install boom(fig2)

3. Adjust the limit position(fig3)



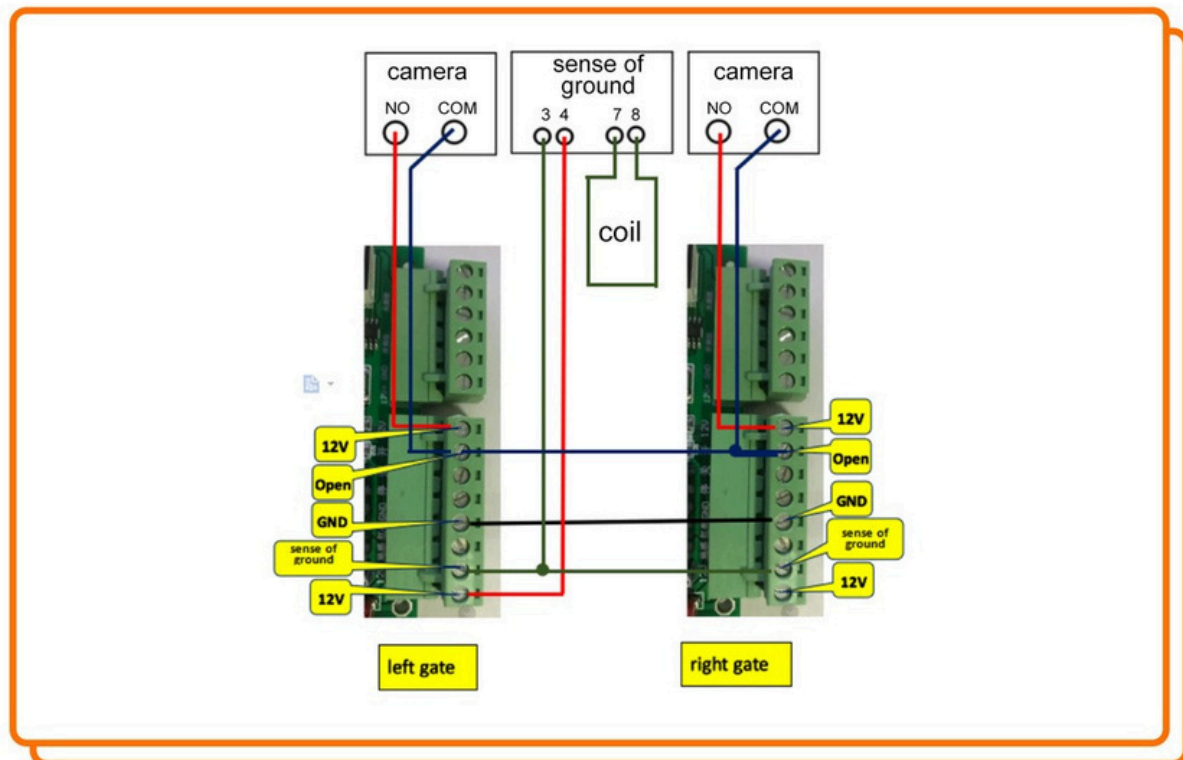
Main board wiring diagram



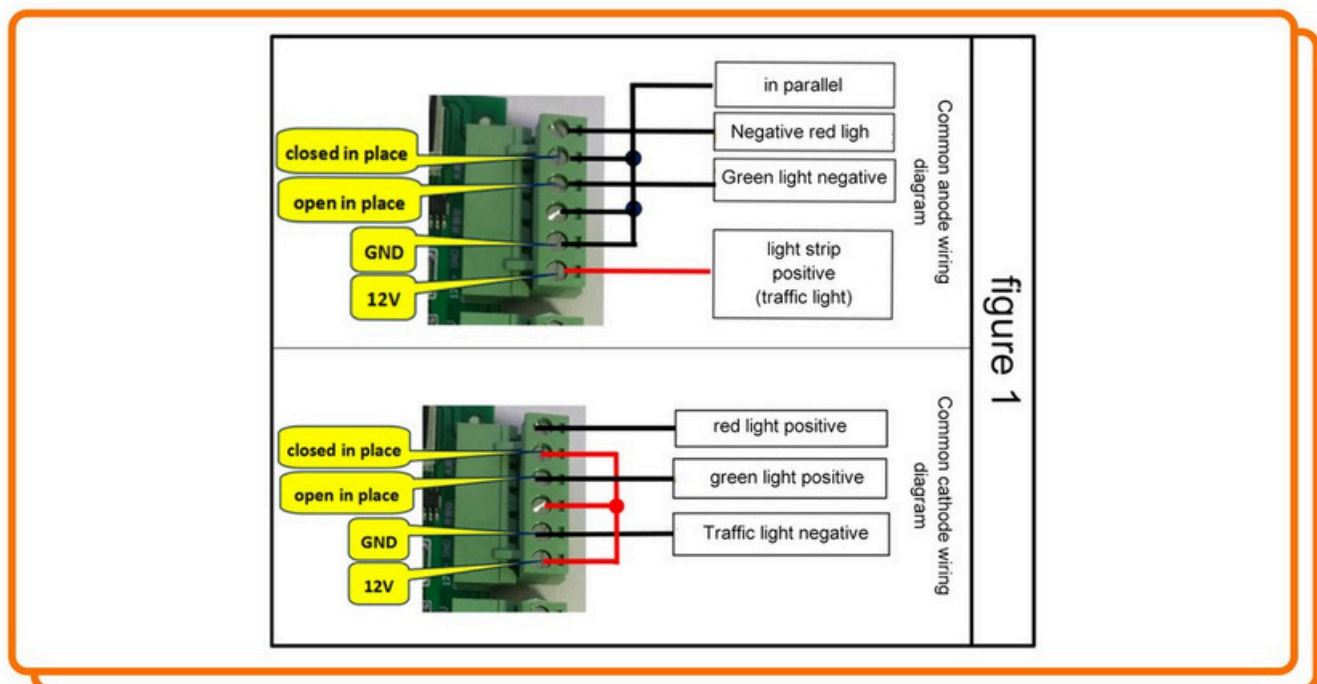
All external signal lines of the control board shall not be connected with network cables, and BVR lines are preferred to reduce problems caused by line faults.



Wiring Diagram



Traffic lights common ,
common connection method



ACCESSORIES WIDE



MF-03-3
13.56Mhz Keychain
with VOLT logo



MF-02A
F1108
mifare card



UHF-02B
8M UHF sticker
with VOLT logo
and Flag of Iraq



XM-SW6907
0-6m UHF
Card reader



XM-SW3907
0-10 UHF
Card reader



UHF5PRO
0-6m UHF
Card reader



EG-03-MF F1108
Epoxy Glue
Card with
VOLT logo



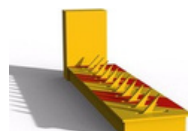
**ALUMINUM
ROAD
SIGNS**



MF-04-1
13.56 MHz Black*300pcs
Red*100pcs blue*100pcs
wristband with VOLT logo



TYRE KILLER



**AUTOMATIC
TYRE KILLER**



SPEED RAMPS



XM-LYZL
card bracket



UHF100U
0-10CM UHF
Reader



UHF100U-TC
0-30CM UHF
Reader



Vsk-03
Face access
control



DELINEATORS



Road signs
To know the route
of the road



KR100-IC
Mifare WG
Card reader



KR200-IC
Mifare WG
Card reader



C3-200
Card Control
panel



C3-400
Card Control
panel



XM-LY68
Mifare
Bluetooth
reader with Z
bracket



TRAFFIC LIGHTS



BE IT Known that I Petra Caroline Edwards of 5th Floor Tower Point 44 North Road Brighton BN1 1YR in the United Kingdom a duly authorised Notary Public CERTIFY that I have caused an electronic inspection to be made today of the Companies Registration Office in the City of Cardiff including an examination of the Articles of Association of the company registered under file number 14809147 and from which file it appears:

1. The Company styled Volt-Smart Group Limited ("the Company") is a company with limited liability duly incorporated existing and registered in accordance with English Law and having its registered address at **128 City Road, London, United Kingdom, EC1V 2NX** ;

2. That the Company is active and it exists;

3. I certify that the Company has not been declared bankrupt;


I further certify that:

4. the first document annexed hereto is a true complete and exact copy of the Articles of Association of the Company with attached Certificate of Incorporation the original of which is filed at the Companies Registration office in the City of Cardiff;

5. the second document annexed hereto is a copy of the share certificate being 1 ordinary share issued to Mustafa Haqi Ismail Al-Bayati a Director of the Company and dated 17 April 2023 full details of which are filed at the Companies Registration office in the City of Cardiff;

6. the third document annexed hereto is a true complete and exact copy of the Register of Members Certificates and Minute Book of the Company.

IN FAITH AND TESTIMONY whereof I the said Notary have subscribed my name and set and affixed my seal of office at Brighton aforesaid on this 19th day of July 2024.


Notary Public

Petra Caroline Edwards

Notary Public of England and Wales


Tel: 07791750699

email: petra@pcenotary.co.uk

Protocol number: Volt-Smart/V19072024



CERTIFIED BY




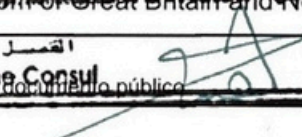




08 AUG 2024

WITHOUT PREJUDICE

غرفة التجارة العربية البريطانية
Arab-British Chamber of Commerce
AUTHORISED SIGNATORY
MR MASHARY OSMAN



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1. Country: Pays / Pais:	United Kingdom of Great Britain and Northern Ireland
2. This public document Le présent acte public / El presente documento público	القصر The Consul
3. Has been signed by a été signé par ha sido firmado por	 Petra Carloline Edwards
4. Acting in the capacity of agissant en qualité de quien actúa en calidad de	د. ليث طارق المشهدي Notary Public V. Consul Dr Laith Almashhadani
5. Bears the seal / stamp of est revêtu du sceau / timbre de y está revestido del sello / timbre de	The Said Notary Public
Certified Attesté / Certificado	
6. at à / en	London
7. the le / el día	25 July 2024
8. by par / por	His Majesty's Principal Secretary of State for Foreign, Commonwealth and Development Affairs
9. Number sous no / bajo el numero	APO-90CH-XLQG-52NR-Z1NQ
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volt-smart.com

Be safe, safety first...



VOLT

SMART HOME AND SECURITY