



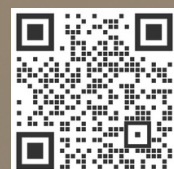
VOLT GATE

Model: VSB-01-6M-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.



CATALOGS

VSB-01-6M-6S L OR R	2
SELECTION GUIDE, BARS AND ACCESSORIES	3
ELECTRICAL SAFETY DEVICES	5
INSTALLATION DIAGRAM	5
FAILURE ANALYSIS AND EXCLUSION	6
WIRING INSTRUCTIONS	7
ACCESSORIES WIDE	9-10

VSB-01-6M-6S L or R

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

Opening / closing Time : 6 s

Supply Voltage : online UPS optional (220v) AC

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

ELLIPTICAL
SECTION BAR
WITH HIGH WIND-
GUST RESISTANCE

REMOVABLE
COVER FOR EASY
ACCESS TO THE
INSIDE PARTS

Features :

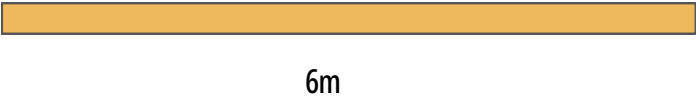
- 1.Auto-closing.
- 2.Machine core with compression spring.
- 3.Taiwan made motor and PCB board, high stability and longer life.
- 4.Beam can be raised and lowered smoothly,low noise.
- 5.Intelligent overheating protection system, solving the problem of overheat.
- 6.Strictly according to IP54 and Current 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.

CATAPHORESIS
TREATED AND
PAINTED OR
STAINLESS
STEEL CASE

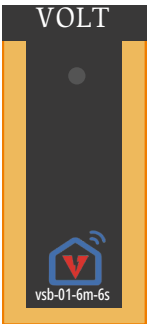
PROTECTED
RELEASE
AGAINST THE
WEATHER



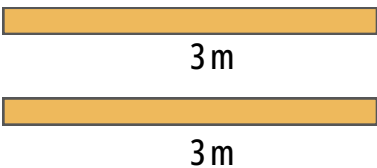
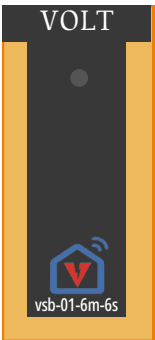
SELECTION GUIDE, BARS AND ACCESSORIES



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)*



Traffic Light

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



Arm Carrier
A. Fixed Carrier
B. Movable Carrier



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.

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

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.

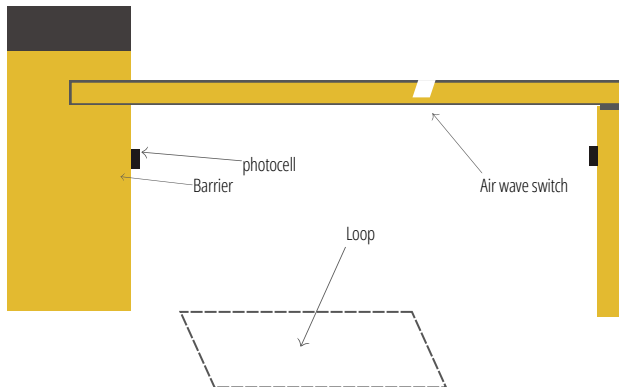
8. Never open the door or the cover of the cabinet when the machine is connected to power supply.

Automatic Gates are Not for Pedestrians!

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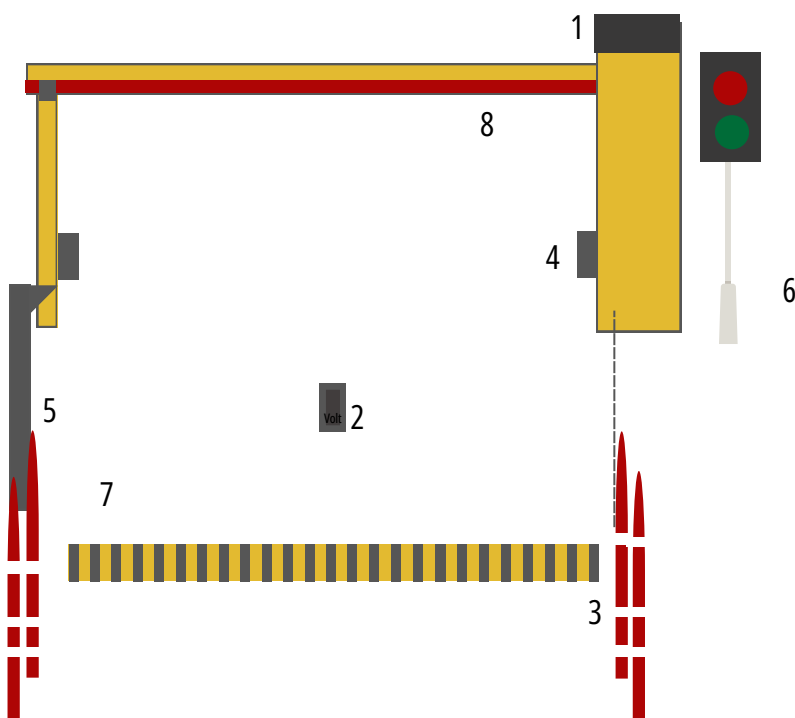


ELECTRICAL SAFETY DEVICES



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) Q: Connected power and press open/close button but traffic barrier gate no action?

Reason - Solution

1 Fuse blown

Check fuse and power in controller

2 Battery of remote control dead

Change a new one

3 External protection circuit breaker or at protecting status

Open the barrier door and click OPEN/CLOSE button on control box

4 Same frequency interference

Check photocell and loop detector

2)Q:Connected power and press open/close button,traffic barrier gate will move but even when it is at right position, the motor still running and not stop?

Reason Solution

1 Limit switch

Adjust the horizontal/vertical limit switch to correct position

2 Main controller failure

Change a new one

3) Q: Motor running but traffic barrier gate arm no action?

Reason Solution

1 Barrier arm at 45° position where is hard to move

Unlock clutch and manually rotate arm to horizontal or vertical position then try again

2 Tension of balancing spring not suitable

Adjust spring exactly

3 Low working voltage

Check the voltage and power

4) Q: When opening/closing,traffic barrier gate arm cannot reach right position (90° vertical & 180° horizontal)

Reason Solution

1 Length adjustment of connecting rod not correct

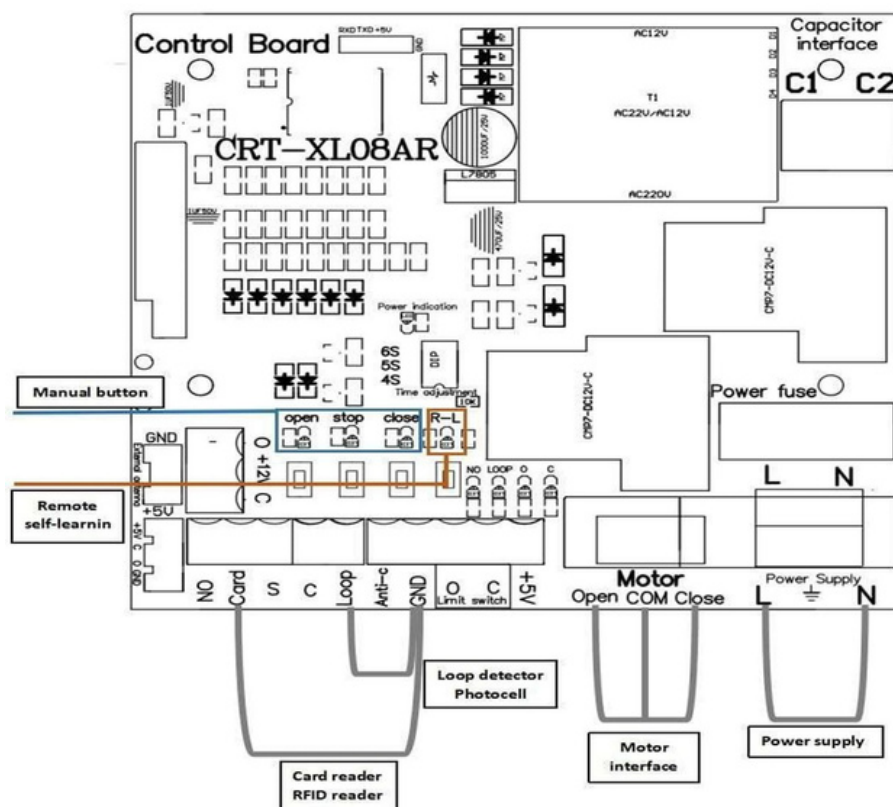
Open barrier door and unlock clutch to check when arm at 90° vertical position if the master rod covers slave one; when arm at 180° horizontal position if master rod and slave one are in the same straight line

2 Nuts on the limit switch loose

Tighten the nuts when arm at 90° vertical and 180° horizontal



Wiring Instructions

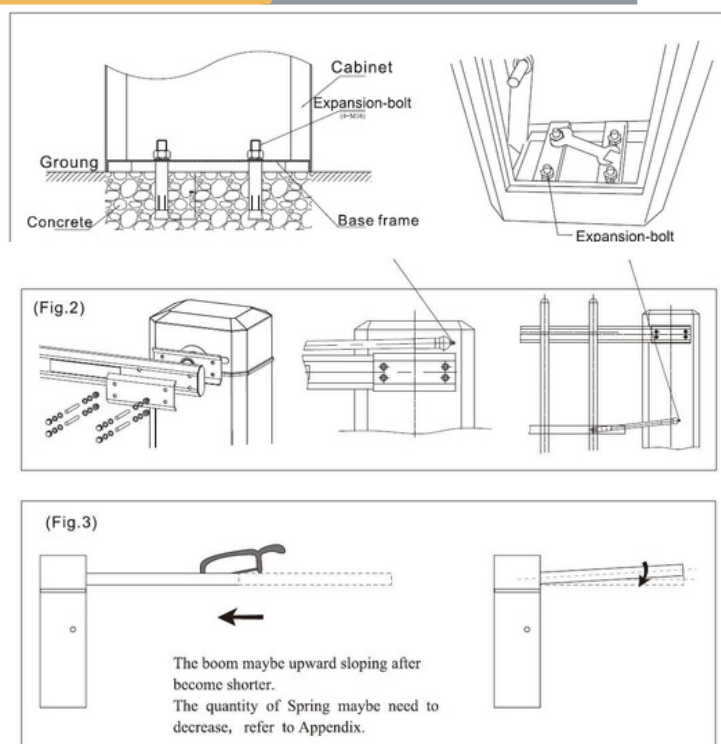


Remote Control Self-learning:

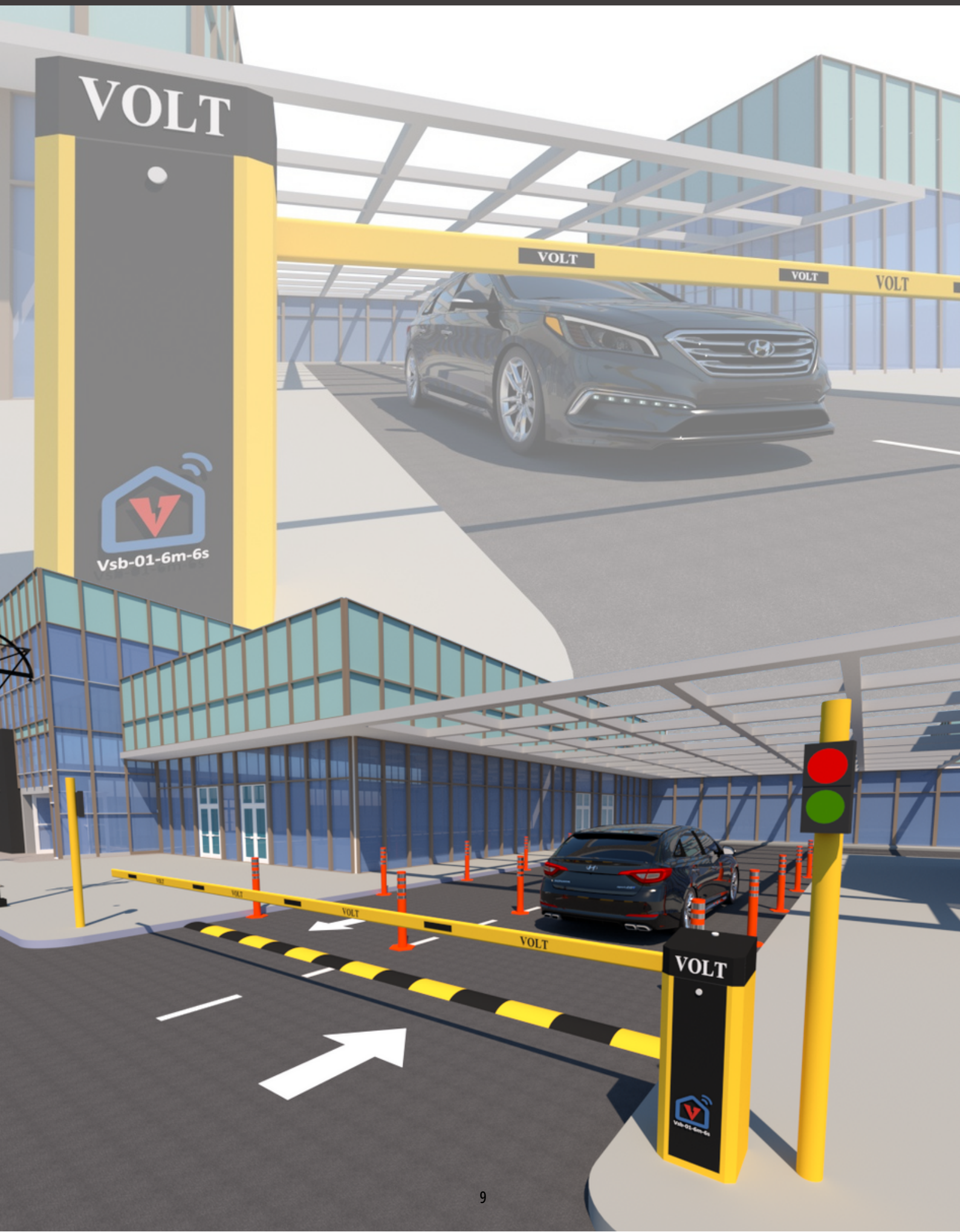
1. Learning method: Press the learning button and release after the indicator light flashed for 2 seconds, and then press any key on the remote control within 5 seconds. At this time, the indicator flashes 4 times, indicating that the remote control has successfully learned.
2. Method for clearing the remote control: Press and hold the learning button on the control board for more than 8 seconds

Installing and adjusting

1. Install the machine on the ground(fig1)
2. Install boom(Fig2)
3. Adjust the limit position(fig3)









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



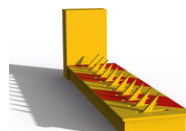
**ALUMINUM
ROAD
SIGNS**



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 card
reader with Z
bracket



TRAFFIC LIGHTS





**CERTIFICATE OF INCORPORATION
OF A
PRIVATE LIMITED COMPANY**

Company Number **14809147**

The Registrar of Companies for England and Wales, hereby certifies that

VOLT-SMART GROUP LTD

is this day incorporated under the Companies Act 2006 as a private company, that the company is limited by shares, and the situation of its registered office is in England and Wales.

Given at Companies House, Cardiff, on **17th April 2023**.

The above information was communicated by electronic means and authenticated by the Registrar of Companies under section 1115 of the Companies Act 2006



Companies House



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REGISTRAR OF COMPANIES**

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Italy

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CERTIFICATE

Certificate Number **UCN** :
Job : J19509
Date of Issue : 2023-12-26
Certificate valid up to : 2024-12-25

Brand Name : VOLT
Type : BARRIER GATE
Model N (Engine) : J-A005, J-B006
Products Model : TC-005, TC-006

Manufacturer :
Country of origin : Taiwan, PRC


Standard Used : EN 61000 -3-3:2013+A1:2019, EN IEC 61000-3-2:2019, EN 55014-2:2015, EN 55014-1:2017+A11:2020

Conclusion :

After inspection of the technical documentation issued by the customer, and in his request, we express our opinion that the product meets the technical requirement of the following directives and standards:
2014/35/EU Low Voltage (LVD) 2014/30/EU Electromagnetic compatibility (EMC)

This opinion is only valid for the directive, the equipment and configuration described, in conjunction with the test data detailed above and with compliance with all applicable legal requirement for the product .

The following manufacturer documents was inspected:

Presence of Declaration of conformity template	✓ OK
Presence of test report using standards as indicated in the declaration of conformity	✓ OK
Test report reference : B-E160810599 (EMC) - B-S160810600 (LVD)	
Presence of  symbol in the product label.	✓ OK
Presence of instruction manual	✓ OK
Use of valid Harmonized standard in the declaration of conformity	✓ OK
Presence of product description in the technical construction file	✓ OK

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VOLT

SMART HOME AND SECURITY