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Sliding Gate Opener with Solar Charger Kit - SLS-175

User Manual

[Revision 3.0 December 2019]

READ THIS MANUAL CAREFULLY BEFORE USE – FAILURE TO DO SO MAY RESULT IN INJURY, PROPERTY DAMAGE AND MAY VOID WARRANTY. • KEEP THIS MANUAL FOR FUTURE REFERENCE. • Products covered by this manual may vary in appearance, assembly, inclusions, specifications, description and packaging.

Safety

Safety messages are designed to alert you to possible dangers or hazards that could cause death, injury or equipment or property damage if not understood or followed. Safety messages have the following symbols:



You **WILL** be KILLED or SERIOUSLY INJURED if you do not follow instructions.



You **CAN** be KILLED or SERIOUSLY INJURED if you do not follow instructions.



You **CAN** be INJURED if you do not follow instructions or equipment damage may occur.

It is vital that you read and understand this user manual before using the product, including safety warnings, and any assembly and operating instructions. Keep the manual for future reference.

Safety precautions and recommendations detailed here must be fully understood and followed to reduce the risk of injury, fire, explosion, electrical hazard, and/or property damage.

Safety information presented here is generic in nature – some advice may not be applicable to every product. The term "equipment" refers to the product, be it electrical mains powered, battery powered or combustion engine powered.

- **Before Use** - If you are not familiar with the safe operation/handling of the equipment or are in any way unsure of any aspect of suitability or correct use for your application, you should complete training conducted by a person or organization qualified in safe use and operation of this equipment, including fuel/electrical handling and safety.
- Do NOT operate the equipment in flammable or explosive environments, such as in the presence of flammable liquids, gases or dust. The equipment may create sparks or heat that may ignite flammable substances.
- Keep clear of moving parts.
- Equipment may be a potential source of electric shock or injury if misused.
- Do NOT operate the equipment if it is damaged, malfunctioning or is in an excessively worn state.
- Do NOT allow others to use the equipment unless they have read this manual and are adequately trained.
- Keep packaging away from children - risk of suffocation! Operators must use the equipment correctly. When using the equipment, consider conditions and pay due care to persons and property.

General Work Area Safety

- Work areas should be clean and well lit.
- Do not operate the equipment if bystanders, animals etc are within operating range of the equipment or the general work area.
- If devices are provided for connecting dust extraction / collection facilities, ensure these are connected and used properly. Dust collection can reduce dust-related hazards.

General Personal Safety

- Wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect from eye and ear injury, poisoning, burns, cutting and crush injuries. Protective equipment such as safety goggles, respirators, non-slip safety footwear, hard hat, hearing protection etc should be used for appropriate equipment / conditions. Other people nearby should also wear appropriate personal protective equipment. Do not wear loose clothing or jewellery, which can be caught in moving parts. Keep hair and clothing away from the equipment.
- Stay alert and use common sense when operating the equipment. Do not over-reach. Always maintain secure footing and balance.
- Do not use the equipment if tired or under the influence of drugs, alcohol or medication.
- This equipment is not intended for use by persons with reduced physical, sensory or mental capabilities.

General Fuel Safety

- Petrol/fuel/gasoline is extremely flammable – keep clear of naked flames or other ignition sources.
- Do not spill fuel. If you spill fuel, wipe it off the equipment immediately – if fuel gets on your clothing, change clothing.
- Do NOT smoke near fuel or when refuelling.
- Always shut off the engine before refuelling.
- Do NOT refuel a hot engine.
- Open the fuel cap carefully to allow any pressure build-up in the tank to release slowly.
- Always refuel in well ventilated areas.
- Always check for fuel leakage. If fuel leakage is found, do not start or run the engine until all leaks are fixed.

General Carbon-Monoxide Safety

- Using a combustion engine indoors **CAN KILL IN MINUTES**. Engine exhaust contains carbon-monoxide – a poison you cannot smell or see.
- Use combustion engines OUTSIDE only, and far away from windows, doors and vents.

General Equipment Use and Care

- The equipment is designed for domestic use only.
- Handle the equipment safely and carefully.
- Before use, inspect the equipment for misalignment or binding of moving parts, loose components, damage or any other condition that may affect its operation. If damaged, have the equipment repaired by an authorised service centre or technician before use.
- Prevent unintentional starting of the equipment - ensure equipment and power switches are in the OFF position before connecting or moving equipment. Do not carry equipment with hands or fingers touching any controls. Remove any tools or other items that are not a part of the equipment from it before starting or switching on.
- Do not force the equipment. Use the correct equipment for your application. Equipment will perform better and be safer when used within its design and usage parameters.
- Use the equipment and accessories etc. in accordance with these instructions, considering working conditions and the work to be performed. Using the equipment for operations different from those intended could result in hazardous situations.
- Always keep equipment components (engines, hoses, handles, controls, frames, housings, guards etc) and accessories (cutting tools, nozzles, bits etc) properly maintained. Keep the equipment clean and, where applicable, properly lubricated.
- Store the equipment out of reach of children or untrained persons. To avoid burns or fire hazards, let the equipment cool completely before transporting or storing. Never place or store the equipment near flammable materials, combustible gases or liquids etc.
- The equipment is not weather-proof, and should not be stored in direct sunlight, at high ambient temperatures or locations that are damp or humid.
- Do not clean equipment with solvents, flammable liquids or harsh abrasives.
- For specific equipment safety use and care, see Equipment Safety.

General Electrical Safety	General Electrical Safety	General Service Information
<ul style="list-style-type: none"> Inspect electrical equipment, extension cords, power bars, and electrical fittings for damage or wear before each use. Repair or replace damaged equipment immediately. Ensure all power sources conform to equipment voltage requirements and are disconnected before connecting or disconnecting equipment. When wiring electrically powered equipment, follow all electrical and safety codes. Wherever possible, use a residual current device (RCD). High voltage / high current power lines may be present. Use extreme caution to avoid contact or interference with power lines. Electrical shock can be fatal. 	<ul style="list-style-type: none"> Electrically grounded equipment must have an approved cord and plug and be connected to a grounded electrical outlet. Do NOT bypass the ON/OFF switch and operate equipment by connecting and disconnecting the electrical cord. Do NOT use equipment that has exposed wiring, damaged switches, covers or guards. Do NOT use electrical equipment in wet conditions or in damp locations. Do NOT use electrical cords to lift, move or carry equipment. Do NOT coil or knot electrical cords, and ensure electrical cords are not trip hazards. 	<ul style="list-style-type: none"> The equipment must be serviced or repaired at authorised service centres by qualified personnel only. Replacement parts must be original equipment manufacturer (OEM) to ensure equipment safety is maintained. Do NOT attempt any maintenance or repair work not described in this manual. After use, the equipment and components may still be hot – allow the equipment to cool and disconnect spark plugs and/or electrical power sources and/or batteries from it before adjusting, changing accessories or performing repair or maintenance. Do NOT adjust while the equipment is running. Perform service related activities in suitable conditions, such as a workshop. Replace worn, damaged or missing warning/safety labels immediately.

Preliminary Checks

To ensure safety and an efficient automation make sure the following requirements are met:

- The gate structure must be suitable for automation.
- Make sure that the gate moves properly and uniformly without any irregular friction during their entire travel.
- The gates wheels and track must be in good condition with no biting, no rust and must be well greased.
- The gates should be able to be freely opened and closed before installing the gate automation system.
- It is strongly suggested to have a gate stop installed for the open position for emergency purposes.





















Important Safety Information

Installer and owners should observe the following:

- Make sure that there is enough space for the gate to slide open fully without interference.
- Do not change with parts or components not supplied by the manufacturer, this includes sensors, buttons, and any component not listed in the compatibility list.
- Make sure all wiring works are correct and in good condition before applying power to the system.
- Turn off the power when doing any maintenance.
- Ensure the control panel is not exposed to water to avoid short circuiting of the control panel.
- Do not supply mains power directly to the motor, control box or any accessories.
- Do not install the operating system if in doubt. Contact the manufacturer.
- Do not cross the gate while it is operating, Safety sensors are only to prevent accidents or injuries.
- Keep the remote controls in safe place and away from children.
- Before beginning installation, the manual should be read thoroughly concerning all aspects of the installation including all precautions and safety information.
- Proper steps should be taken to ensure efficient and safe installation for vehicles, property and persons within the operators working radius.
- The system is fitted with an over current sensing feature to assist in preventing damages, injuries and death.
- All precautions must be taken by the installer that adjustments are set correct based on the gates weight, height and length.
- The system sensitivity should be set to allow consistent operation of the gates under normal operating conditions.
- The system may not detect (Over current sense) against light loads such as small object, young children and animals. It is the operator's duty to ensure that the area is clear prior to operation.
- Photo sensors or reflective sensors should always be installed to assist in accident or death prevention. You agree to install this product following any and all safety requirements listed in this manual or required under local, state or national regulations. Our company and our distributors, stockist or sellers are not liable for any direct, indirect, incidental, special or consequential damages or loss of profit whether based in contract or any other legal theory during warranty or afterwards. If you do not feel capable of properly installing the operator based on the above information or otherwise do not proceed. Photo evidence of the installation will be required to assist in warranty product claims.
- Do not operate the gate if there are people or obstacles in the gate's path.
- The power supply for the control board should be equipped with a separate switch with a fuse rated at 10AMP.
- Always disconnect the power supply before attempting any service or repairs on the sliding gate.
- The rack must be fixed securely and in a straight line parallel to the gate track, it must also sit squarely over the drive gear.
- Ensure the gap between the rack and drive gear is adequate to avoid excessive load on the drive gear.
- Confirm the direction of the moving gate, the supplied gate stops should be installed in a right position to avoid the motor running out of control.

Safety Symbols

The product may have safety warning labels attached to it, explained below. Understand the symbols on your product and their meanings. If any stickers become unreadable, unattached etc., replace them.

 <p>Flammable Material Hazard Flammable liquids, gases or substances etc may present. Avoid ignition sources and open flames. Danger of fire.</p>	 <p>Read User Manual Read and fully understand product safety warnings, operation, procedures etc before using the product.</p>	 <p>Use Hand Protection Wear appropriate hand protection and take due care as the product or use of the product may present hand hazards.</p>	 <p>Carbon-Monoxide Hazard Do not use the product in confined areas or without adequate ventilation. Carbon-monoxide poisoning can be fatal.</p>
 <p>Electrocution / Electrical Shock Hazard High voltage or high current electricity may be present or required by the product. Take due care when handling electrical products, cables, plugs and leads. Electrical shock can be fatal.</p>	 <p>Toxic Fumes / Dust Hazard Using the product or by-products from use may produce fumes, smoke or particles that could be harmful if inhaled. Wear appropriate breathing protection and have adequate ventilation.</p>	 <p>Explosive Material Hazard Combustible liquids, gases or substances etc may be present. Avoid ignition sources and open flames. Danger of explosion.</p>	 <p>Cutting / Amputation Hazard The product may have blades, edges or mechanical devices that can cause severe cut injury to fingers, limbs etc. Take due care when handling and using the product.</p>
 <p>Crush Hazard The product may have blades, edges or mechanical devices that can cause severe crush injury to fingers, limbs etc. Take due care when handling and using the product.</p>	 <p>Single Operator Only The product must be operated by a single person only. More than one person operating the product may introduce additional hazards.</p>	 <p>Use Face Protection Wear appropriate full-face protection and take due care as the product or use of the product may present face and eye hazards.</p>	 <p>Use Foot Protection Wear appropriate foot protection and take due care as the product or use of the product may present foot hazards.</p>
 <p>Use Eye / Ear / Head Protection Wear appropriate eye and / or ear and / or head protection and take due care as the product or use of the product may present eye, hearing and head hazards.</p>	 <p>Running Hazard Do not run on or near the product as doing so may present a fall hazard.</p>	 <p>Diving Hazard Do not dive into the product as doing so may present a neck / head injury hazard.</p>	 <p>Adult Supervision Required Always supervise children and other users of a product to prevent drowning or injury.</p>
 <p>Skin Penetration / Puncture Hazard The product may produce pressure, emit liquids or objects that can cause severe injury to fingers, limbs, blood etc. Take due care when handling and using the product.</p>	 <p>Hot Surface Hazard Be aware that the product may produce high temperatures and hot surfaces that can cause burn injuries.</p>	 <p>Flying Debris Hazard Be aware that the product or use of the product may present hazards produced by flying debris. Wear appropriate clothing and protective devices.</p>	 <p>Moving Parts Hazard Be aware that the product contains or uses mechanical devices that move or rotate. Always wait for moving parts to stop fully before handling the product, adjusting, maintenance etc.</p>
















 <p>Carbon-Monoxide Hazard Do not use the product in confined areas or without adequate ventilation. Carbon-monoxide poisoning can be fatal.</p>	 <p>Pull Hazard Be aware that the product contains or uses mechanical devices that can pull in objects and can cause severe injury to fingers, limbs etc. Take due care when handling and using the product.</p>	 <p>Slope / Fall Injury Hazard Be aware that using the product on sloping surfaces or in slippery conditions may present additional dangers from falls and contact with blades, moving parts, hot surfaces etc.</p>	 <p>"Slam Dunk" Warning Do NOT attempt "slam dunk" manoeuvres as this may result in severe injury due to falling, product breakage or collapse etc.</p>
 <p>Electrocution / Electrical Shock Hazard - Outdoor High voltage or high current electricity may be present or required by the product. Do NOT use in rain, damp or wet conditions. Electrical shock can be fatal.</p>	 <p>Electrocution / Electrical Shock Hazard - Disconnect High voltage or high current electricity may be present or required by the product. Always disconnect the product from the electrical supply before handling the product, adjusting, maintenance etc.</p>	 <p>Power Line Electrocution Hazard High voltage / high current power lines may be present. Use extreme caution to avoid contact or interference with power lines. Electrical shock can be fatal.</p>	 <p>"Kick-Back" Hazard High level of "kick-back" hazard that can cause the machine to suddenly rotate towards operator. Kick-back injury can be fatal.</p>
 <p>Winch Operator Position Hazard Do NOT stand between winch and load. Do NOT use winch to move people.</p>	 <p>Winch Lift Hazard Do NOT LIFT load vertically. Use machine to PULL only.</p>	 <p>Cable Hazard Ensure that load bearing cable is not kinked or knotted.</p>	 <p>Winch Cable Hazard Ensure that there is a minimum number of cable coils on winching mechanism.</p>
 <p>Winch Hook Hazard Carry hook to load – do NOT throw or run.</p>	 <p>Flash / Blinding Hazard Wear appropriate eye protection for welding. Direct exposure to weld arcs may cause permanent eye injury.</p>	 <p>Laser Hazard Laser may be in use – do NOT look directly at laser or allow others to.</p>	

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Video Manuals

Video Tutorials:

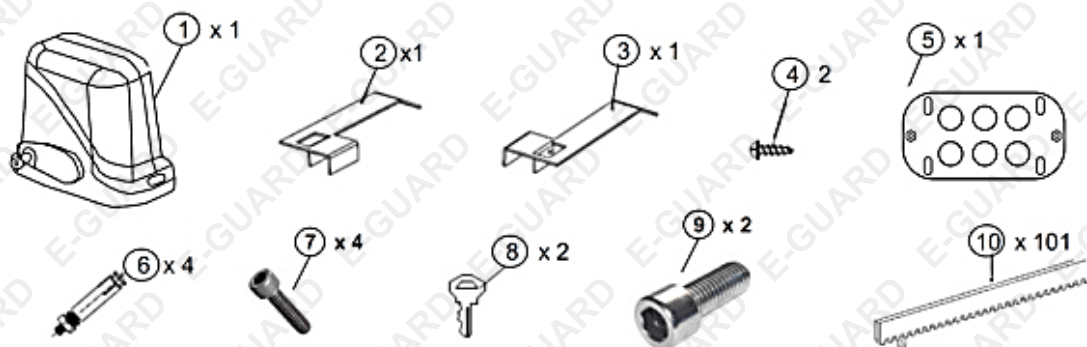
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[Programming Remotes](#)

[Adjusting Control Board Settings](#)



Parts Identification



No.	Name
1	Sliding gate motor
2	RHS limit switch strike plate
3	LHS limit switch striker plate
4	Motor cover screws
5	Motor base plate
6	Dyna bolts
7	Striker plate fixing bolts
8	Override keys
9	Motor to mounting plate screws
10	Gear rack

Not shown in diagram	
11	24v 20w Solar panel
12	Solar charge controller
13	2pcs. 12v 9ah back up battery



1pcs



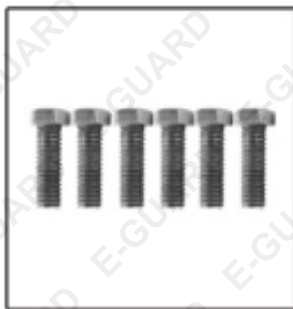
3pcs



2pcs



4pcs



6pcs



2pcs



19pcs



2pcs



1pcs



1pcs



1pcs

Assembly and Set-Up

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Motor Base Plate Installation

1. Depending on the installation size of the motor and mounting height of racks, after determining the installation position of the motor base plate, first let the bolt embedded or use expansion bolt to make base plate fixed on watering good cement foundation. See diagram 2.

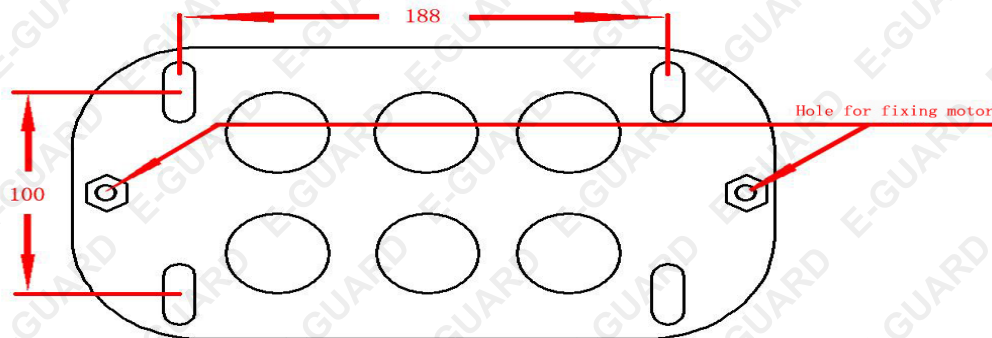


Diagram 2

2. If the rack has been installed on the gate, the motor can be fixed on the base plate. Use an Allen key to rotate to the clutch "OFF" position of the motor and the gear rack so as to better determine the position of the motor base plate, then remove the motor and fixed base plate.

Gate Opener Installation

1. Let the sliding gate opener put on the base plate. Use a random matching hexagon screw to fix the motor on the base plate.
2. Loosen the screws fix the motor cover, and then remove the motor cover according to the electrical wiring diagram, connect the power cord, after adjusting for good position. Then, install the cover and use screws to secure it into position.

Rack Installation

1. After the motor is installed, put the racks teeth down, then put the gear on the motors. and finally connect with screws and gate. Push the gate with your hand so can let door sliding it and can move it without any problem. After confirming, secure the racks.
2. Rack is usually unit assembled. To avoid jittery gate movements or becoming jammed, rack and joint clearance must be corrected. Suggest use this way, see diagram 3. With a small correction of the rack, after connecting right with racks 1 and racks 2, then fixed racks 1 and 2.

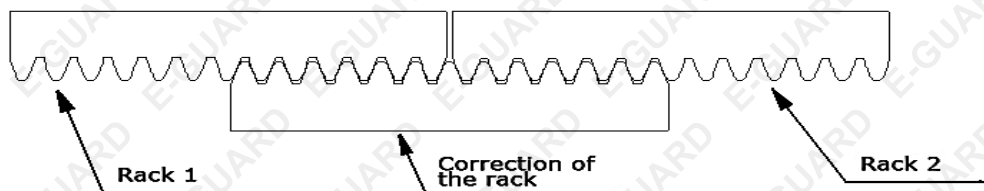


Diagram 3

Limit Levers Installation

There are 2 limit levers supplied. Note there is a left hand and a right hand lever. The levers should be installed one at either end of the rack. See Diagram 4.

To install the levers in the correct position, open the clutch door and press the 'CLOSE' button on the remote, the motor will run but will not drive the gate. Close the gate manually and adjust the limit lever to contact the toggle switch and switch the motor off at the desired gate position. To adjust the stop position of the gate when it is open, press the 'OPEN' button, manually open the gate and adjust the other limit lever to contact the toggle switch and switch the motor off.

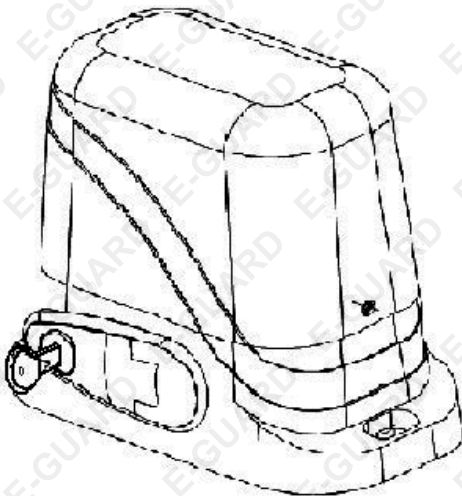
When you are satisfied the levers are in the correct positions, tighten the screws in the levers to clamp them to the rack, close the clutch door and using the remote control check the gate opens and closes to the desired positions. Adjust the limit levers if necessary.



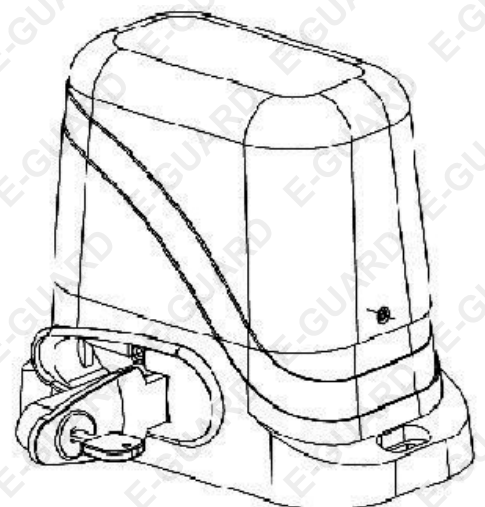
Diagram 4

Clutch Function

When the clutch is opened to the open position, you can manually push the gate. When closing the clutch, electric gate opener can run on, off, when touching, limiting the bezel will stop it automatically.



Insert key, rotate 90 degrees CW



Releasing arm in torsion, wriggle 90 degrees, gate operator will be in releasing state.

Diagram 5

Infrared Sensors (Photocell) Installation

1. Loosen up the screws on the motor and the remove the motor cover.
2. Let the signal line and power line coming in from outside, and then connect it according to electrical wiring diagram.
3. With screws, secure the base plate in a fixed position.
4. Close the motor cover and tighten screws.
5. Adjust the transmitter and receiver height position, as needed.

6. After installation, test photocell and adjustments to make sure they work normally.

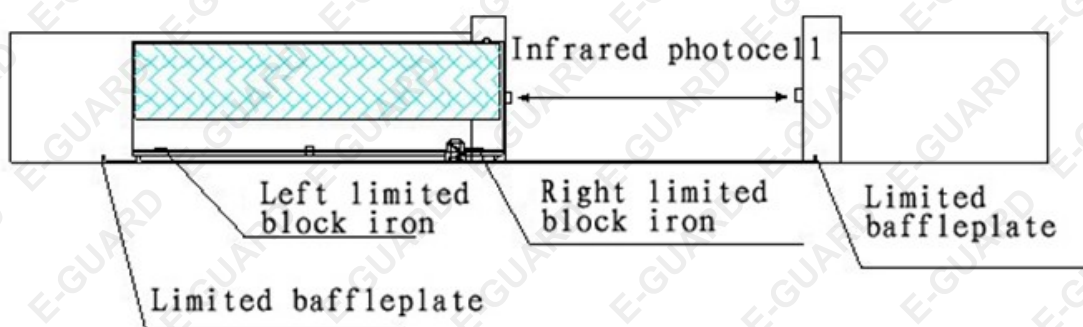


Diagram 6

Operation

Control Board Layout



Parameters

- **Board power supply:** AC 24V, could connect 24V back up battery, 24V output for external devices.
- **Use for DC sliding gate motor**
- **Transmitter:** Giant rolling code transmitter, support max. 120pcs transmitter.
- **24V DC motor**
- **Features:** Digital display; limit; resistance sensitivity adjustable; motor speed adjustable; motor high speed time adjustable; motor protection time 60s; auto close function; auto close time adjustable; board single button control mode; resistance infrared; gate close infrared; PED mode; alarm lamp output; swipe card.

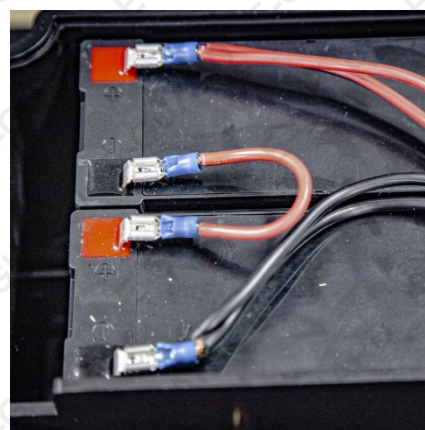
Typical Wiring Set-Up



1



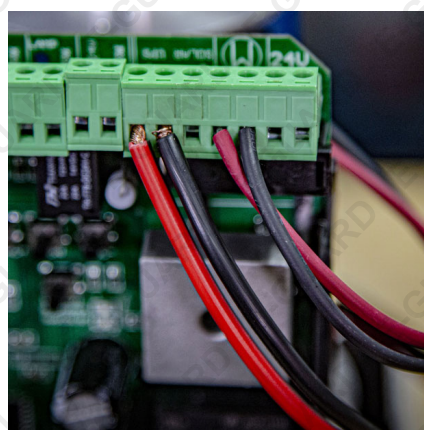
2



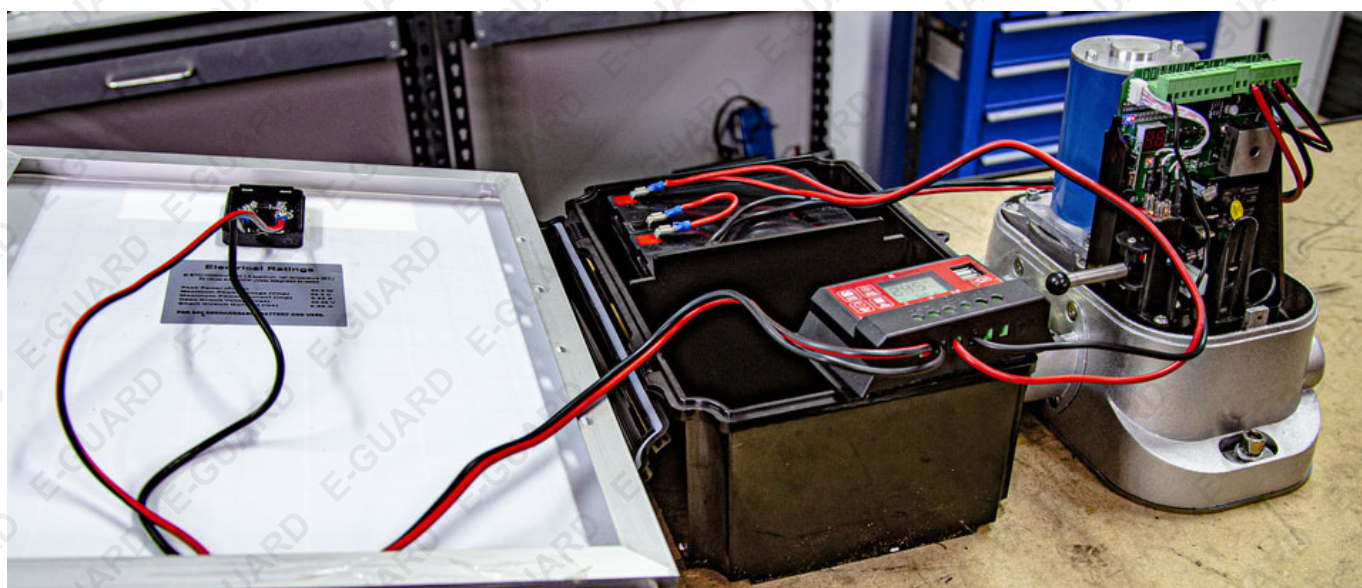
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4



5



6

Installation Diagram of Electrical Parts

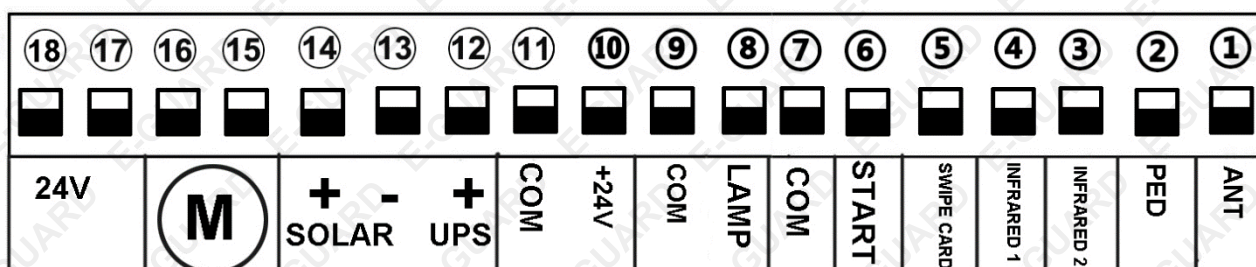


Diagram 6

ANT terminal: Antenna connection

PED terminal: Used for connecting the external device control opening in pedestrian mode. The gate will only open partially.

Infrared 2: Used for connecting the photocell. After not sensing the infrared sign for 2 seconds, the gate will auto close and will bounce back if resistance has been sensed.

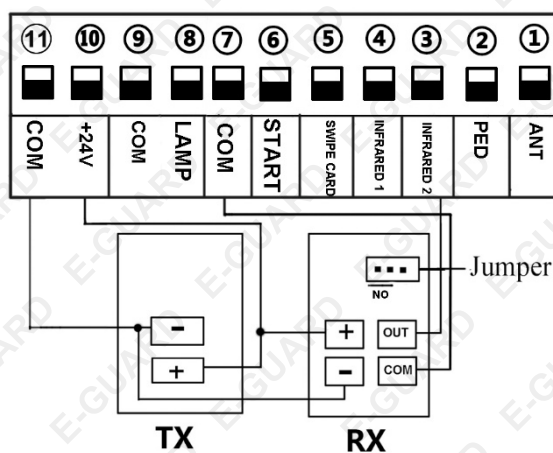


Diagram 7

1. Connect terminal 7 to the "COM" of the photocell RX.
2. Connect terminal 3 to the "OUT" of the photocell RX.
3. Terminals 10 and 11 supply the power for the external device. So, connect terminal 10 to the "+" of photocells RX and TX.
4. Connect terminal 11 to the "-" of photocells RX and TX.

Infrared 1: Used for connecting the photocell. When the gate senses an object or resistance while closing, the gate will stop and then re-open.

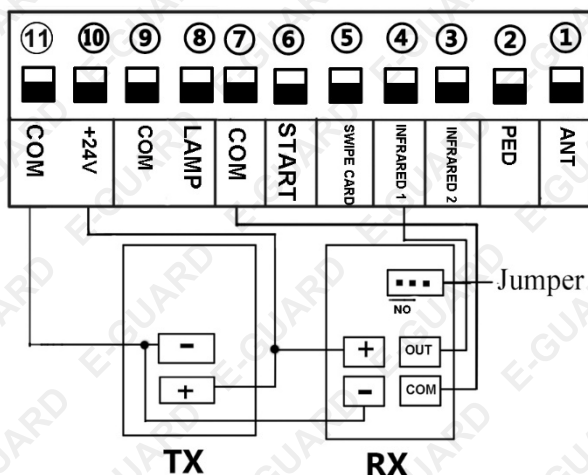


Diagram 8

1. Connect terminal 7 to the “COM” of photocell RX.
2. Connect terminal 4 to the “OUT” of photocell RX.
3. Terminals 10 and 11 supply the power for the external device. So, connect terminal 10 to the “+” of photocells RX and TX.
4. Connect terminal 11 to the “-” of photocells RX and TX.

Swipe Card: Used for connecting the swipe card system (low voltage) e.g.: wired keypad.

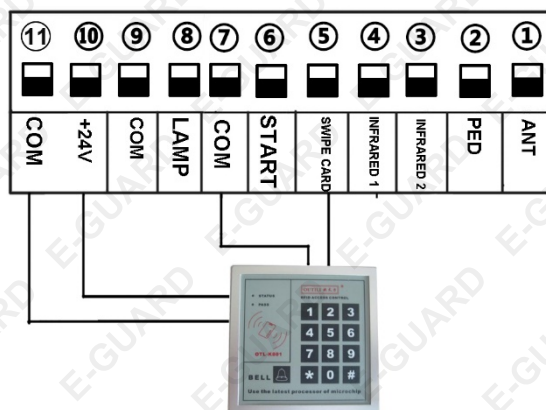


Diagram 9

Example for wired keypad:

5. Connect Terminals 5 and 7 to the wired keypad.
6. Terminals 10 and 11 will supply power to wired keypad.

Start Terminal: This is a single button control mode switch, used for controlling the gate’s “open-close-stop-open-close” cycle.

NOTE: If you press the button for a long time, it would affect some other function.

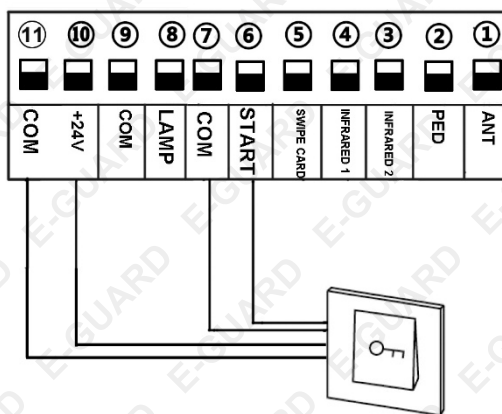


Diagram 9

Example for push button:

7. Connect Terminals 5 and 7 to the push button.
8. Terminals 10 and 11 will supply power for the push button.

COM Terminal: Used to connect the COM terminal or GND 8 and 9.

Lamp terminal: Used to connect the flashing light. Lamp light will turn ON when the gate is running. Output voltage is DC24V.

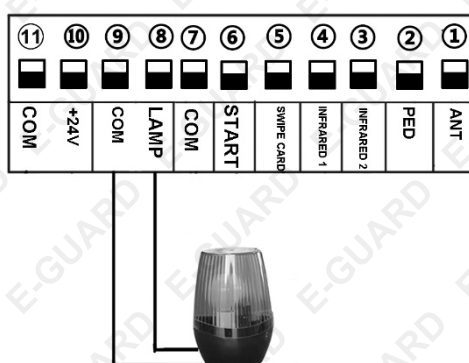


Diagram 11

Terminals 8 and 9 is for the flashing light.

Terminals 10 and 11 +24VAC Terminal: DC24V on board power supply for the infrared external device

Terminals 12 and 13 for the UPS terminal: Used for connecting the backup battery, which could be charged with an electric power supply. Charge current is 20-50mA. The battery will supply the power automatically when there is no electric power supply. When the UPS supply power to the board, the standby current is 20mA, and the current is about 5-10A when the motor is running.

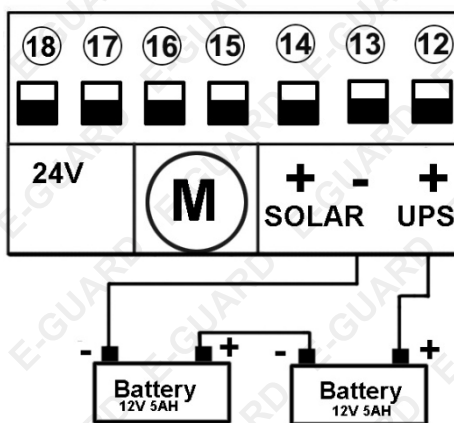


Diagram 12

The EG-32 control board accepts 24VDC battery power input. So, connect two 12V battery in series.

9. First, connect battery 1's "+" to battery 2's "-."

10. Then, connect battery 1's "-" to terminal 13.

11. Connect battery 2's "+" to terminal 12.

NOTE: • For solar system connection, first connect the 24V DC battery to the sliding board, then connect the battery with the solar charger controller. Finally, connect the solar charger controller to the 24V solar panel. • Do not directly connect the solar panel to the "SOLAR" terminal.

Motor Terminal: Used for connecting the 24VDC motor.

Installing the motor on the right side of the gate (factory setting).

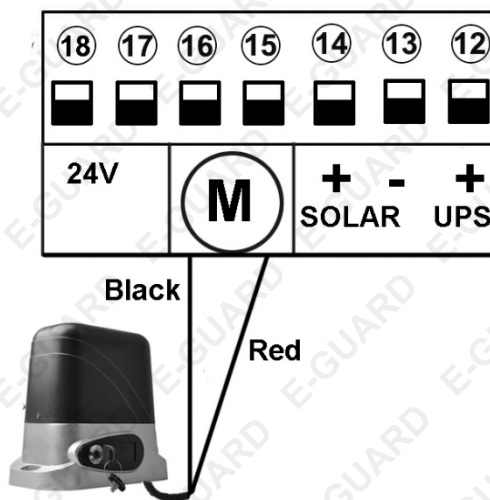


Diagram 14

If the motor is being installed to right side of the gate, the motor wire diagram is as follows:

- Terminal 15 connects the red wire from the motor.
- Terminal 16 connects the black wire from the motor.

Installing the motor on the left side of the gate.

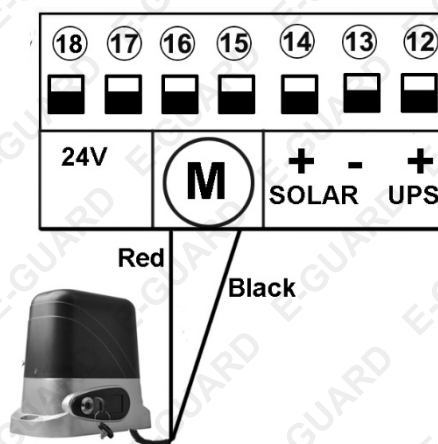


Diagram 15

If the motor being installed to the left side of the gate, the motor wire diagram is as follows:

- Terminal 15 connects the black wire from the motor.
- Terminal 16 connects the red wire from the motor.

24V terminal: Used for connecting the transformer AC24V

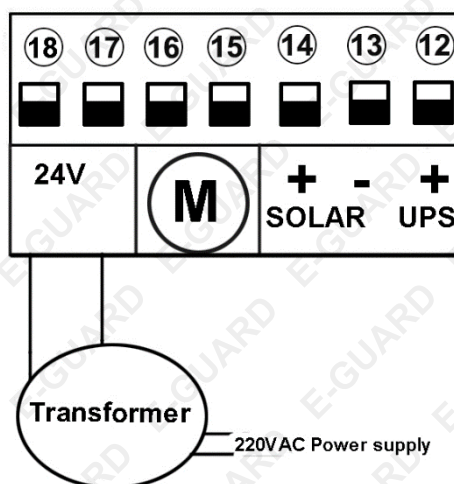



Diagram 16

1. Connect terminal 17 to the transformer with a yellow wire.
2. Connect terminal 18 to the transformer with another yellow wire.
3. Two red wires from the transformer is for connecting to the 220V power supply.

Function Testing

Status Indicator LED	After the control panel power has been turned ON, the status indicator LED will light up.
Motor open-close instruction	When the blue LED indicator lights up, it means that the gate is opening. Red LED indicator means that the gate is closing.
Transmitters	<p>Encoding format: Our own custom rolling code. Three buttons on the remote control are used to control the gate's opening, closing and stopping functions. Single button control mode operates the gate as "open-stop-close-open". Maximum memory capacity of control panel: 120PCS transmitters.</p> <p>Could be customized to match with EV1527 remote (better with three remote buttons).</p> <div> <p>Video Tutorial:</p> <p>Programming Remotes</p>  </div>
Code learning	Press the learning button for at least 1 second and then release. The LED indicator will go out. Now press the remote-control button. If the LED indicator flashes 4 times, the transmitter is successful in learning. If control do not receive any signal from the transmitter within 5 seconds, the LED indicator will light up and will exit learning mode.
Code clearing	Press and hold down the learning button for at least 5 seconds (the LED indicator will go out during this process). The LED indicator will light up to indicate that the code has been removed successfully.
Transmitter copy (Giant rolling code transmitter)	The remote-control copies do not need any learning, it could directly be used with the gate opener. When using any of the copy remote-controls for the first time, you need to prolong the pressing of the remote-control for about 5 seconds until the digital display shows the remote number. Then indicator light will flash twice, and the buzzer will beep, indicating that the matching was successful.
Single button control mode START	<p>Through the digital display to control single button mode, "0" means close single button mode, "1" means open single button mode.</p> <p>When the single button mode is close, the three buttons of the transmitter will control the "open-stop-close" separately.</p> <p>When the single button model is open, only button 1 will control the "open-stop-close" cyclically.</p>
Pedestrian mode PED	<p>Through the digital display controlling the PED time, "0-20s" option, "0" means close PED mode.</p> <p>Through the remote-control button 4 or PED button, which on the board will control the PED mode to open the gate.</p>
MOTO Intelligent change speed system	<p>With the high speed, slow speed and soft stop functions, the running time is adjustable through the digital display. High speed running time is adjustable by 0 – 45 seconds, factory setting is 15 seconds, 0 means close high-speed running. High speed resistance sensitivity and low speed resistance sensitivity is adjustable by 0 – 20 seconds.</p> <p>Note: if the motor has been stopped by human intervention or other external factors, it will not operate in a high-speed running function after operating it once again.</p>
Limited and Resistance functions	<p>Limit: While the motor is running, the motor will stop after reaching the open & close limit.</p> <p>Meeting an Obstacle: If the gate meets an obstacle while opening, the gate will stop. If the gate meets an obstacle while closing, the gate will stop, then bounce back.</p> <p>Sensitivity of resistance can be adjusted through the digital display.</p>

Auto close	<p>Auto-closing function will only activate after the open limit switch has been enabled.</p> <p>Auto close time is adjustable by 0 – 99 seconds through the digital display.</p> <p>There are three auto close functions: 1. auto close after the gate opener is activated with a normal remote control. 2. auto close after card swipe 3. Auto close after gate open is activated with the PED mode.</p> <p>When the auto-closing countdown timer starts, the indicator light will flash every 1 second.</p>
INFRARED mode 1 (meet resistance infrared)	<p>When the gate is closing, if the motor senses INFRARED mode 1 sign, then it will stop running at once and bounce open. After staying open for about 2 seconds, it would auto close. Now, the auto close will not be controlled by the auto close time.</p> <p>When the gate is opening, the INFRARED mode 1 will not be affected.</p>
INFRARED mode 2 (gate close infrared)	<p>When gate has opened up or is still opening, once the gate close infrared senses a person or car have already pass after 2 seconds, the gate motor will automatically close. When the gate is closing, the gate motor will bounce once it senses the infrared sign and would close again until it will not sense the infrared sign for 2 seconds.</p>
Alarm lamp output	<p>In the digital display to control the alarm lamp output method, factory setting is 0.</p> <p>0 means that the lamp terminal has a DC24V output except after the gate's total closing time is 30 seconds.</p> <p>1 means the lamp will light up when the gate is opening. Lamp will switch OFF when the gate is closing.</p>
Motor protection	<p>If the motor is running continuously for over 60 seconds, the motor will automatically stop running.</p>

Digital Display Settings

NOTE: Menu setting and code learning can only be accessed while the gate is in stop mode and not in auto-close count down mode.

Video Tutorial:

[Adjusting Control Board Settings](#)



1. Press and hold the FUN button until the digital display shows PO.
2. Now, you've entered the menu setting. You could adjust through the INC+ and DEC- buttons to either increase or decrease the numerical value.
3. After adjustments have been made, press the FUN button again to store the data. The buzzer will sound off once the data has been stored successfully.
4. After setting the menu, you could press the LRN button to exit the menu settings and close the display.

Number		Range	Factory settings	Board sign
P1	Low speed meeting resistance	0~20 level	8 level	M LOW OVERLOAD
P2	High speed meeting resistance	0~20 level	10 level	M HI OVERLOAD
P3	High speed running time	0~45s	15s	HI-SPEED

Number		Range	Factory settings	Board sign
P4	Auto close time after swiping card to open the gate	0~99s	10s	CARD-CLOSE AUTO CLOSE
P5	Pedestrian mode gate auto close time	0~99s	10s	
P6	Auto close	0~99s	0 (close)	AUTO CLOSE
P7	Pedestrian mode gate open time	0~20	5s	PED
P8	Single button mode (key 4)	0~1	0 (close)	ONE KEY
P9	Alarm lamp output control	0~1	0 (close)	ALARM
PC	RESET			RESET

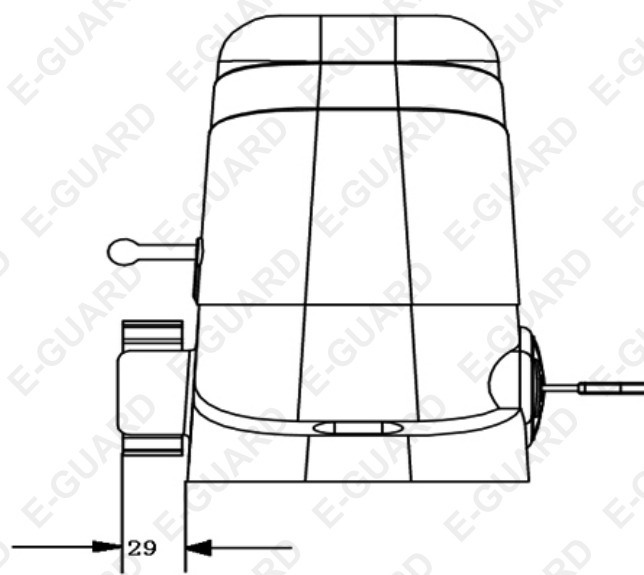
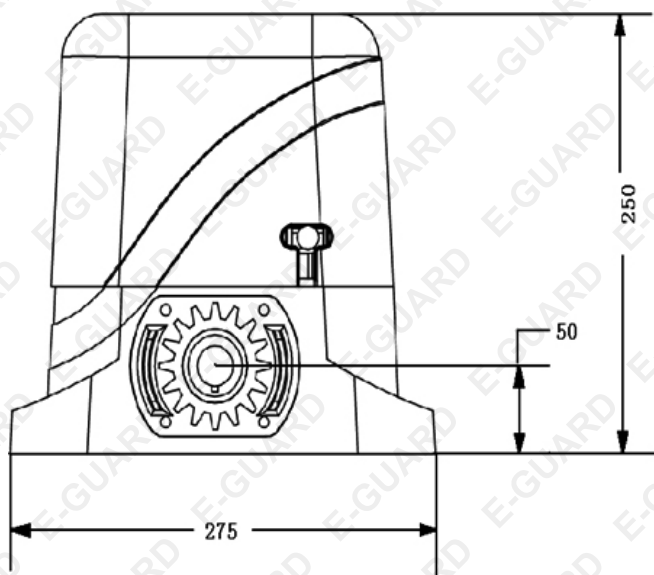
NOTE: Right motor function condition should be the following: when the gate is opening, the blue LED indicator will light up. When the gate is closing, the red LED indicator will light up. Only when the gate is on the right function direction would the swipe card, infrared, PED mode etc. function.

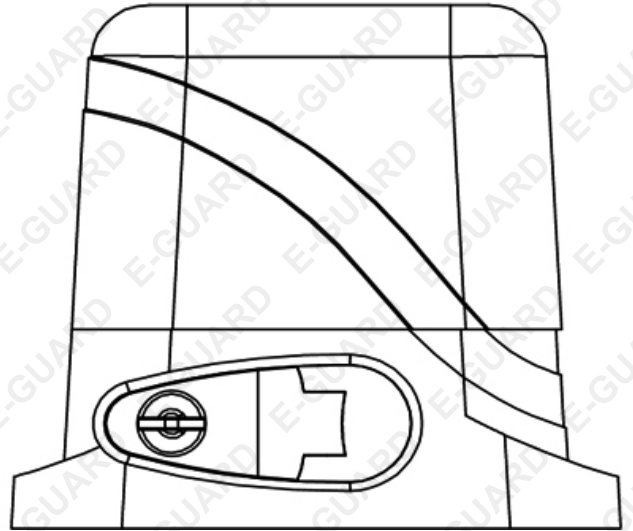
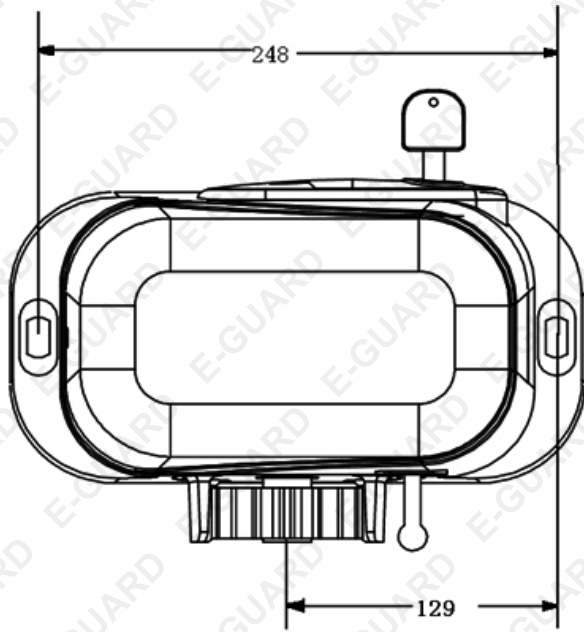
Specifications

Product Specifications

Voltage	220-240V
Max Gate Weight	1500kg
Waterproof Grade	IP55
Nylon Gear Racks	5m
Remotes	3
Remote Range	50m
Smart Sensitivity	Yes
Auto-Close	Yes

Dimensions







Some experts believe that the incorrect or prolonged use of almost any product may cause serious injury or death. To help reduce your risk of serious injury or death, refer to the information below. For more information, see www.datastreamserver.com/safety

- Consult all documentation, packaging and product labelling before use. Note that some products feature documentation available online. It is recommended to print and retain the documentation.
- Before each use, check the product for loose/broken/damaged/missing parts, wear or leaks (if applicable). Never use a product with loose/broken/damaged/missing parts, wear or leaks.
- Products must be inspected and serviced (if applicable) by a qualified technician every 6 months. This is based on average residential use by persons of average size and strength, and on a property of average metropolitan size. Use beyond these recommendations may require more frequent inspections/servicing.
- Ensure that all users of the product have completed a suitable industry recognised training course before being allowed access to the product.
- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or description of application. Be sure to attain third-party approval from a qualified specialist for your application before use, regardless of any assurances from the retailer or its representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (for example, automobile, computer, toaster), there is the possibility of technical issues that may require the repair or replacement of parts, or the product itself. If the possibility of such failure and the associated time it may take to rectify could in any way inconvenience the user, business or employee, or financially affect the user, business or employee, then the product is not suitable for your requirements. This product is not intended for use where incorrect operation or a failure of any kind, including but not limited to, a condition requiring product return, replacement, parts replacement or service by a technician may cause financial loss, loss of employee time or an inconvenience requiring compensation.
- If this product has been purchased in error when considering the information presented here, contact the retailer directly for details of their returns policy, if required.

