

# EASY8 Sliding Gate Motor and Control Panel Installation Guide

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## EASY8 SLIDING GATE MOTOR AND CONTROL PANEL INSTALLATION GUIDE

### **Important Safety Information**

All safety instructions and installation methods should be read and completely understood by installer and the owner prior to the installation of the Autogate system. This product is designed and manufactured for the use indicated in this document.

Remember that all automatic gates are intended for vehicular gates only. A separate gate or entrance must be installed for pedestrian use.

Any other use, not expressly indicated may damage the product or be a source of danger.

### **Sliding Gate Motor – Model EASY-8**

Easy-8 Sliding Gate Motor is suitable for Light – Medium weight gates. Do not use it on large sized gate which exceeds the maximum recommended gate weight. Wrong selection of motor will result in unreliable operation.

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### **Owner should observe the following:**

1. Do not cross the gate while it is operating.
2. Keep children away from the gate and the remote control.
3. Do not adjust the setting of the control panel and the motor. Contact installer to adjust to the required settings as per this manual.
4. Test the system frequently and monitor the high and low speed of the system.
5. Practice the use of the Emergency Override key. This is crucial in the event that the system does not work.
6. Place the WARNING signs prominently on the gate to warn pedestrian of the Automatic Gate operation in your premise. It is your responsibility to post the warning signs on both sides of the gate.

### **Installer should observe the following:**

1. Make sure gate weight does not exceed the maximum weight specified.
2. The gate design must be suitable for the installation of Autogate system.
3. Ensure that the gate is installed on flat, level ground and can move and slide freely in both directions along the entire gate length.
4. Control Panel Box must be installed in the area where it is not easily damaged.
5. Do not change with parts or components not supplied by manufacturer.
6. Make sure all wiring works are correct in accordance with electrical bylaws and in good condition before supplying the mains power to the control panel.
7. Turn OFF the power including battery when doing any maintenance.
8. Ensure the control panel box free from water leakage and insects to avoid short circuiting of the control panel.
9. Never supply mains power directly to the DC motor.
10. Transformer **MUST** be protected when connected to mains power via a RCD.
11. Do not install the operating system if in doubt. Contact the manufacturer or your local agent

# EASY8 SLIDING GATE MOTOR AND CONTROL PANEL INSTALLATION GUIDE

## Specification

- Supply Voltage : Single Phase AC220-240V, 50Hz
- Backup Battery : 12V 7AH
- Operating Voltage : DC 20 - 26V for High Speed  
: DC 10 - 12V for 2nd Speed  
: DC 06 - 08V for Cushioning Speed
- Motor Type : Oil Bath Gear Motor
- Motor Revolution : 3000 rpm
- Absorbed Power : 150 Watts
- Gate Speed : 15 meter/min
- Max. Weight of Gate : 450 kg
- Safety Clutch : Electronic Counter Technology, Auto Reverse
- Electronic Controller : Micro-Processor Based
- Remote Controller : 2 Channels, 433 MHz
- Protection Class Motor : IP24
- Manual Override : Jam-Free Special Release Key

## Standard Packing

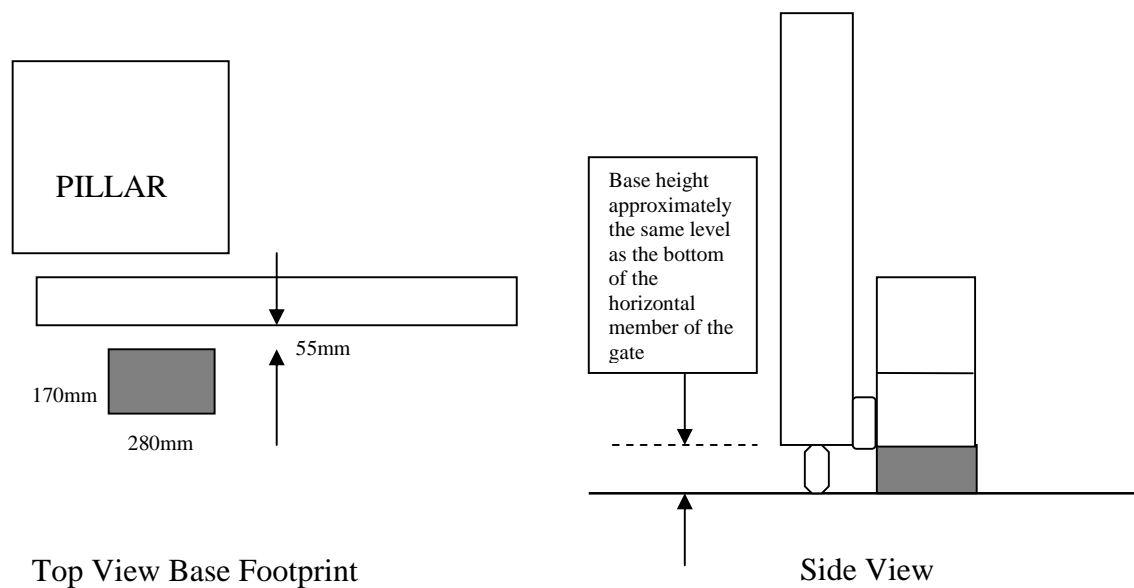
Standard Packing of the sliding gate system includes:

Sliding Gate Motor	: 1pc
Base	: 1pc
Wall Plug	: 4pcs
Release Key	: 2pcs
Cap Nut & Washer	: 4pcs
Control Box	: 1pc
Control Panel (Model D2)	: 1pc
Transformer 13-8-0-8-13V	: 1pc
Remote Control 3+1	: 1set
Backup Battery 12V 7AH	: 1pc
Gear Rack	: 1pack (Optional. Not Included)

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### Preparation of the Concrete Ground Surface (Base) for Motor Mounting.

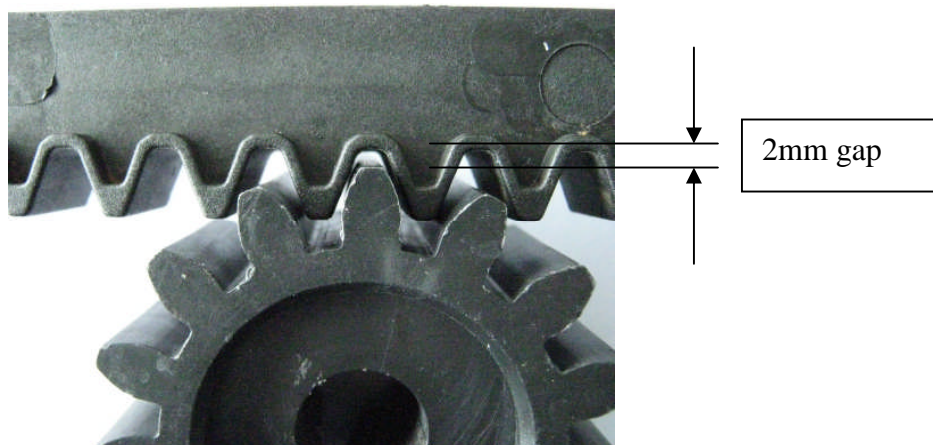
- Make sure that the ground surface for the motor installation is solid and leveled.
- A good Base is paramount to the proper operation of the auto gate system.
- The dimension of the concrete base should be approximately 280mm x 170mm for the mounting of the base plate
- The Base should be approximately 55mm away from the Gate and of approximately the same height as the edge of the lower horizontal member of the gate. (Refer to sketch below).
- Cables from the Control Panel to the Motor can be pre-embedded in the Base should concealed wiring be preferred.
- Prepare for motor cable (2 core x 2.5mm) and the counter cable (2 core x Multi-Strand alarm cable, or Cat-5) with a slack of 300mm for the termination.



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### Installation of the DC Sliding Gate Motor

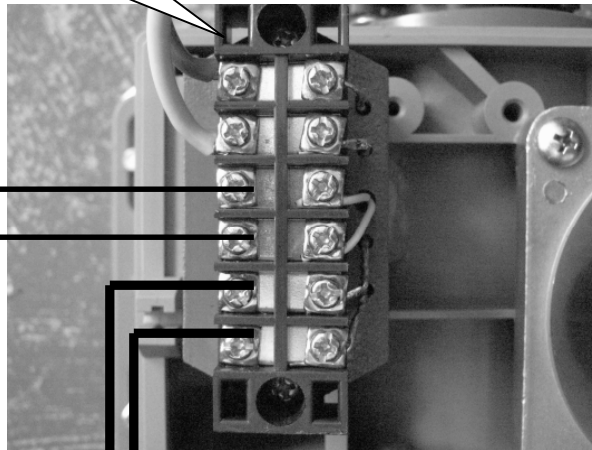
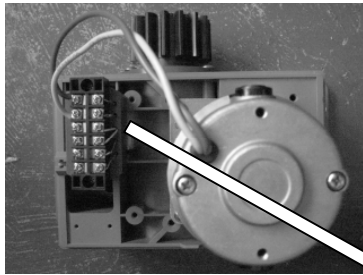
- Anchor the metal Base Plate allowing flexible pipes containing electrical cables to protrude. Ensure that base plate is leveled and the studs threads are clear of casting cement.
- Place Motor on the base plate. If necessary use additional nuts to raise or level the Motor to the desired height.
- Temporarily raise the motor by another 2mm using washers spacers under the motor mounting 4 x corners for Gear Rack spacing. (These washers are to be **removed** once gear rack is installed and motor secured to the ground plate)
- Release the auto gate to emergency release so that the gear wheel rotates freely for the alignment and installation of the gear rack.
- Lay all gear rack (on the ground) along the length of the gate. Check end rack supports for best position on bottom gate spin.
- Rest the first gear rack on the gear wheel, ensure that the gear rack is leveled, and secure the gear rack onto the gate. Repeat till all gear racks have been installed.
- **Remove** the Washer / Spacer from the Motor, and the gap of 2mm between the gear wheel and the gear rack is automatically achieved.
- Check to ensure consistent meshing between the gear rack with the gear wheel over the entire length of the gate. Loosen the screw on the gear rack to adjust the position of the gear rack if necessary.



***Important Note: Gear Wheel and Gear Rack life depends almost entirely on their correct meshing.***

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## Wiring Connection on Motor Terminal Block

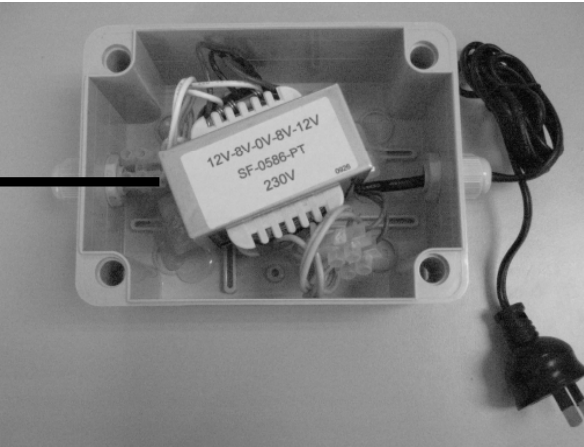


MULTI STRAND or  
CAT-5 CABLE for  
COUNT SIGNAL

2.5mm  
CABLE FOR  
MOTOR

## Wiring from External Transformer to Control Panel

TPS 2.5mm TWIN &  
EARTH CABLE  
FROM EXTERNAL  
TRANSFORMER TO  
CONTROL PANEL



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## Connection of Power Source

### 230Vac-26Vac Transformer (External)

Transformer can be relocated to around 50m from control box using a transformer kit (in a protective electrical box with mains lead and plug) or positioned inside the control box if mains power is available at the gate. In either option you MUST install transformer via a RCD to avoid injury from shock as per local government electrical requirements. Always switch off mains power when any work is being carried out on or around gate installation.

We recommend a minimum 2.5mm x 3 core TPS cable. Connect mains power supply to the 2 x orange wires (230Vac) at the transformer. Use the 2 x purple and 1 x black wires as these are for our 24v sliding gate control board D2 only. Protect the white (not needed as these are 16v) wire ends so as not to make contact with the transformer.

### Battery

Your system is supplied with a 7amp-hour battery and steel mounting bracket with screw. You MUST install battery in the right bottom of your control board with the battery terminals at the BOTTOM facing the center. There are 2 plastic locating pegs molded into the control board box. Additional battery can be installed in the control box lid it increase amp power to the system. Connect additional batteries in PARALLEL (as per 12V system) ONLY. i.e. red to red and black to black.

### Solar Power

The system can be solar powered via an optional solar system with 12V voltage regulator connected directly to the battery. The 7amp-hour battery supplied may not be suitable for heavy gates or frequent use. Add another 7amp-hour battery giving a total of 14amp-hour. Remember big is best! You can install this in the lid of the control box using the locating pegs. Do NOT use both solar and mains power at the same time. Solar panel must face north and best suited within 10m of battery. Have a minimum of 8 hrs direct sun exposure to be effective.



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### Setting the System

1. Unplug all power including battery and make sure the gate is ***completely CLOSED. Check gate stops are installed at the fully open/closed and count signal is wired to the control board.***
2. Tighten firmly with fingers the motor override release with supplied key. (Gate does NOT slide freely over the motor anymore).
3. Supply power to the system and press transmitter (button 1 or button 2) and check the IR-beam green LED light is ON.
4. The system will initiate an OPEN signal the first time the remote is pressed. Observe the MOTOR LED. (GREEN for Open) and (RED for Close)
  - a. If the Orientation of the motor is reversed, rectify by reversing the Motor Cable on the Control Board terminal.
5. Let the motor run (low speed) until gate is fully opened. The motor will stop automatically when the gate is hard stopped. High current cut-off by the circuit board is automatically achieved.
6. Observe the Green LED COUNT SIGNAL when the wheel is rotating. The LED should blink at a consistent interval while the gate is traveling at constant speed  
If the LED is not on or blinking, recheck the counter cable connections.
7. Press transmitter again. The second time the remote is pressed the system initiates a CLOSE function.
8. The motor will now close at high speed. Observe that Motor LED should be RED.
9. Motor will automatically switch to low speed approximately 60cm from full closing. At approximately 30cm from full closing, motor speed reduces to cushioning speed. Motor automatically cuts off when gate contacts the gate stop (high Amp cut-off).
10. Monitor the MOTOR FORCE LED located at the top right corner of your D2 Control board. For heavier gates turn the setting towards HEAVY.
11. Try to Open and Close the auto gate a few times to make sure the microprocessor has stored the correct range.
12. Once in operation, the gate will auto reverse when the system detects obstruction (high amp) during closing operation.

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13. The gate will stop when the system detects obstruction (high amp) during opening operation.
14. To **RESET** the Memory, remove all power sources (Mains and Battery). Wait for 30 seconds. System will reset to Factory Default. Repeat Step #1 – 10 to set the memory.

### **Auto Close Switch (30sec and 15sec).**

Your D2 control board comes with a pre wired 30 sec Auto Close Switch installed at the bottom of the Control Box.

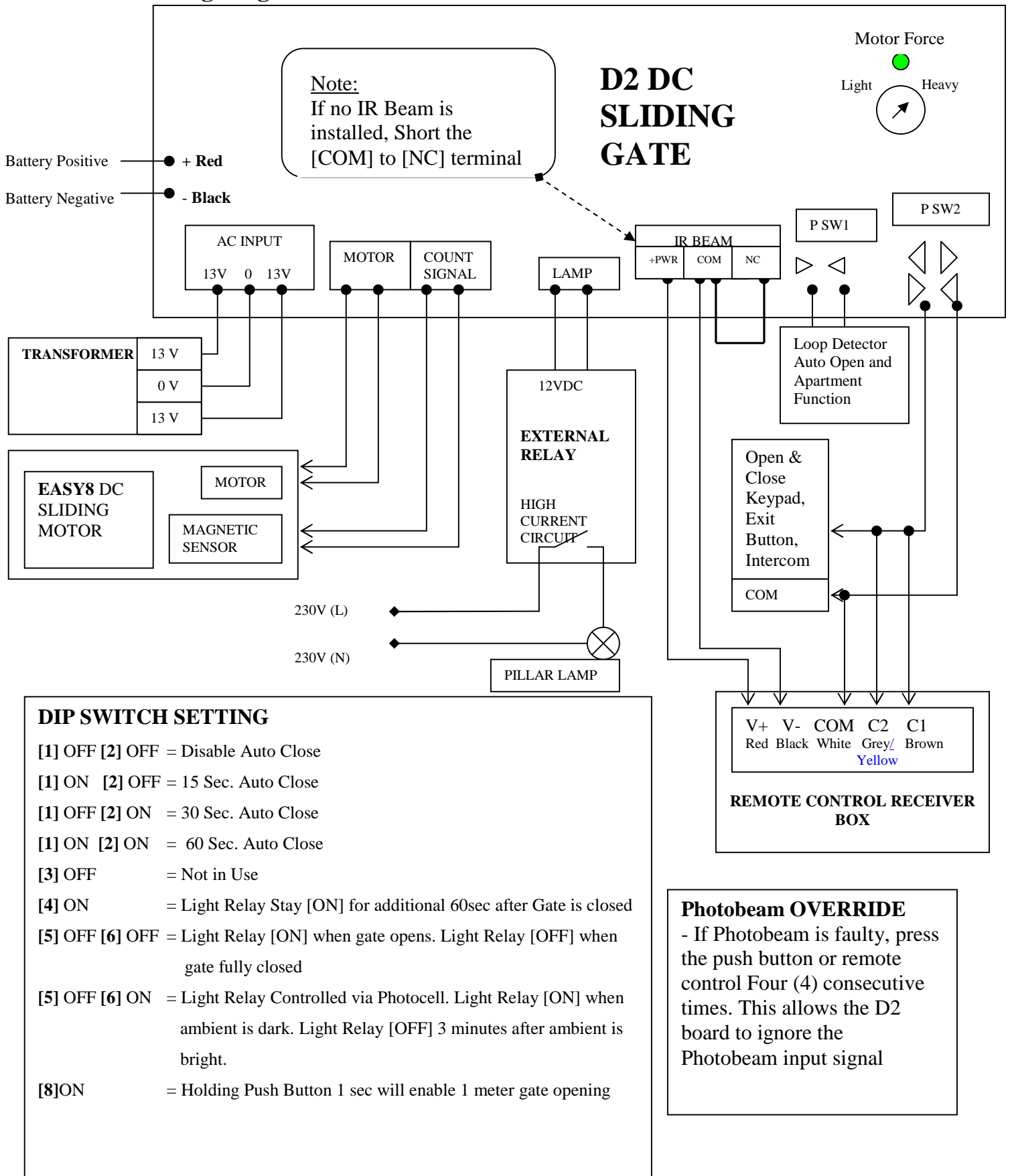
1. To use this Auto Close switch, keep DIP #1 and DIP #2 on the control panel in the OFF position.
2. Turn ON the auto close switch (position 1) to activate the 30sec auto close. Turn OFF the auto close switch (position O) to deactivate the auto close function.
3. Safety Beam Sensors (photocell) **MUST** be installed when Auto close function is enabled to safe guard against gates closing on people and objects.

### 15 Second Autoclose

1. In your control box there are another 2 cables marked as 15sec Autoclose. To change from 30sec autoclose to 15sec autoclose on the external switch, remove the two pre-wired cables from the switch and replace them with cables marked { 15 sec Autoclose }

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## Wiring Diagram



## EASY8 SLIDING GATE MOTOR AND CONTROL PANEL INSTALLATION GUIDE

The D2 control panel is specially design to match Easy8 DC Sliding Motor.

The system comes with a backup battery where the motor will operate in 12Vdc when there is power failure. You will notice that when the system is running on Backup Battery, your auto gate will not have the high speed function.

The electronic component on D2 board requires no maintenance as long as the gate operates in proper order.

### **DIP Switch Setting (Version 1.3.0)**

The dip switch on the control panel operates as following:

- [1] & [2] OFF = Disable Auto Close
- [1] ON & [2] OFF = 15 Seconds Auto Close
- [1] OFF & [2] ON = 30 Seconds Auto Close
- [1] ON & [2] ON = 60 Seconds Auto Close
- [3] OFF = Not in use
- [4] ON = Light Relay will off with a delay of 60 Seconds after gate closed
- [5] & [6] OFF = Light Relay on when gate open & cut off after gate fully closed
- [5] OFF & [6] ON = Light Relay controlled via the Photocell. Light Relay [ON] when Ambient is dark. Light Relay [OFF] 3 minutes after ambient is bright
- [8] ON = Holding button 2 seconds will enable gate open 1m width

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## Remote Receiver and Transmitter

### Remote Receiver Box:

The Easy8 12Vdc receiver has a 2-channel signal system represented the grey/yellow and brown wire combined with the white COM. The red wire is 12V positive and the black negative. The green wire is the antenna and must not be cut.

For your sliding gate control join the grey/yellow and brown wires together to allow either button 1 or button 2 to activate the gate opener.

### Adding New Remotes:

Remove the back panel of a remote (tiny Phillips screw) that is already working to activate your gate. Match the new remote receiver DIP setting to the current remote DIP switch setting. Each DIP switch has 3 positions (top, middle and bottom) so care must be taken when setting each DIP switch.

Check the signal transmission by pressing your new remote.

### Changing Remote Codes:

The black Remote receiver Box has 5 wires connecting to your control board. Remove the lid to view the code DIP switches.

If you change these you must also change all your remote DIP switches by removing the back panel of each remote and match to the receiver DIP setting. Each switch has 3 positions (top, middle and bottom) so care must be taken when setting each DIP switch. After the receiver panel is connected to the control panel, check signal transmission. Test each of the remote individually.

### Increase Range of the Remotes:

**Connect a 433MHz Long Range Antenna to the end of the green / blue antenna wire of the receiver box. Place as high as possible in sight of the area you wish to transmit from.**

You can relocate the transmitter box to another moisture-free location to increase signal strength using network cable.

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### Connection of optional access controllers and other devices.

You MUST install 12Vdc devices via the in-line 1amp fuse from the 12V battery. This will give a better performance than the 12V terminal on the control board which may give an intermittent pulse power feed and higher current output than 14V.

- **Keypad or Access Controller**
  - Connect 12V positive and negative to the battery fuse connector block provided. Connect keypad 2 x signal wires to “P SW2” located on the far right of the control board.
  - If you activate DIP Switch#8 and your device has a relay time of more than 2 seconds then connect to P SW1
- **Exit Button or Intercom gate release**
  - Note: Only connect N/O devices. Connect 2 x signal wires to “P SW2” located on the far right of the control board.
  - If you activate DIP Switch#8 and your device has a relay time of more than 2 seconds then connect to P SW1
- **Loop Detector or Open Only Device**
  - Connect to the P SW1 allows for an OPEN cycle only. Any further signals will be ignored unless the gate is in the timed pause of which the auto-close timer will restart. If the gate is closing and a signal is received the gate will STOP and re-open again. You MUST install photocells and activate auto close function to be effective.
- **Safety infrared beams (photocell)**
  - Connect beams 12v power to battery connector block provided. Connect beams common to control board “IR-beam” COM and beams signal NC. The green LED next to it will shine when beam is passive. When active (beam broken) green LED will go out only when gate is in a closing cycle.
  - Note: You will need to remove the small loop wire that is positioned between terminal 3 and 4 when installing beams. Replace the loop wire when beams are not installed!

Photocell Override.

- If the Photocell is faulty and NC contact from the Photobeam has become {opened}, press the push button or remote 4 consecutive times. This allows the D2 board to ignore the photobeam signal to allow for the gate to operate.

### External Light connection

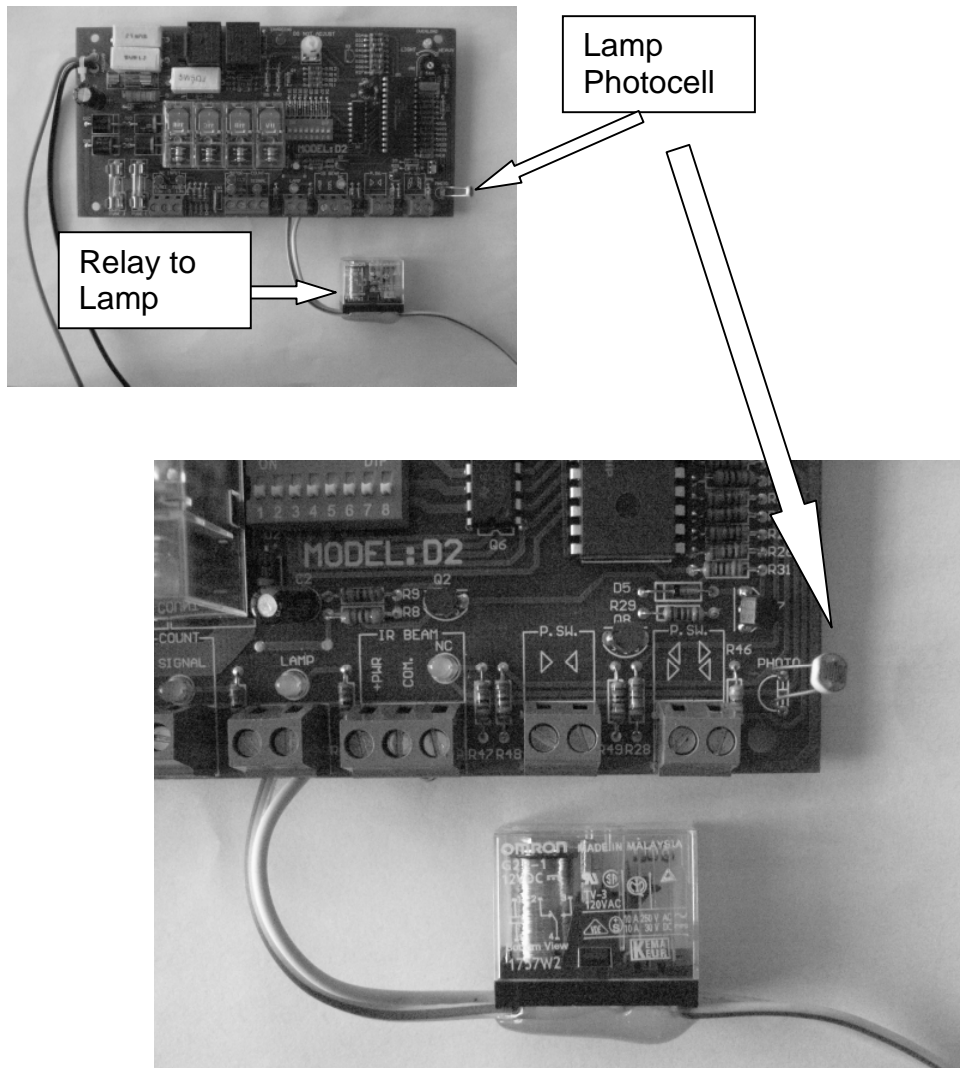
D2 board has a 12Vdc output on the Lamp Relay Terminal. Left terminal is negative and right is positive. This output is to energize an EXTERNAL 12Vdc relay which in turn can be used to turn on /off a higher rating electrical item such as a Pillar Light.

**Warning:** All 240V wiring MUST be done by a qualified electrical person.

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Connect a 12Vdc relay as is shown in figure below

### 12Vdc Relay Wiring to Activate Pillar Lamp.



### Connection of 12Vdc Relay for 240V lights

Note: D2 board is designed with a Lamp Photocell (bottom right side of D2 board), so that Lamp Relay will NOT be activated in Bright Ambient.

When connected to Pillar Lights, this design prevents the Pillar Light from turning ON during the Day.

Please note however, that due to the different lighting intensity, direction of lights, reflection etc in the Control Panel Box, it is possible that that Lamp Relay is activated even if the external ambient is significantly bright.

If you wish that the Pillar Lights to be turned on, irrespective of the ambient lighting, use a Dark Tape to cover the Lamp Photocell or turn the Photocell inwards when mounted in the Control Box.

Point the lamp photocell to the side Gills of the supplied box for ambient light detection.

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### **Troubleshooting:**

**Problem:** The system does not respond when transmitter is pressed.

**Solution:**

- Make sure the transmitter in good condition. Ensure that the battery is functioning and the LED on the transmitter lights up when button is pressed. Replace battery if the transmitter only works at very close range to the receiver
- Check the receiver by removing the Control Box cover and view the inside of the Black Receiver Box for insects.
- Check the wiring of the receiver panel and make sure the power is connected in correct polarity. Check the power from control board to ensure there is 12Vdc to receiver.
- Try other optional activation devices such as Exit Button or Keypad. If hardwired devices activate the gate but all transmitters do not, recheck the Black Receiver Box.

**Problem:** The gate does not fully open and close, or stops half way.

**Solution:**

- Ensure there is no obstruction to the movement of the gate. This can be verified by releasing the gate to Emergency release mode. Manually push the gate open and close to detect any obstruction.
- Ensure that on the first setting setup, the gate is fully closed before the board is initialized. Short distance detection will result in error of count for the gate length.
- Adjust the force adjustment Overload dial setting. Setting the position too low will cause the gate to stop / reverse on small obstructions.
- Check if optional devices relay time is more than 2 seconds. If so then connect to the P SW1 terminal instead of the P SW2.
- Check DIP switch 8 position.



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**Problem:** The gate does not travel smoothly when opening or closing.

**Solution:**

- Ensure there is no obstruction to the movement of the gate. This can be verified by releasing the gate to Emergency release mode. Manually push the gate open and close to detect any obstruction.
- Ensure that the gap between the rack and the gear wheel is maintained.
- Check if the gate has misaligned. Misalignment of the gate can be observed from inconsistent meshing between the gear rack and the gear wheel.

**Problem:** Gate does not move although relay and LED on control panel shows signal output.

**Solution:**

- Check if the magnetic sensor in the motor is functioning. To verify, release the lock and push the gate. Observe the “count signal LED”. LED should blink 3 times for every 1 revolution of the gear wheel.
- If the LED does not blink, change the magnetic sensor provided by manufacturer. Do not use normal magnetic sensor. The sensor in the autogate is high accuracy magnetic sensor. Make sure the sensor is place in right position.

**Problem:** Gate judders when fully opened or fully closed.

**Solution:**

- Problem arises due to a loose clutch.
- Re-tighten firmly the motor clutch with the Release Key provided.
- Repeat the steps in [Setting the System] to allow the auto gate to re-learn the range of operation.

**Problem:** Gate open but will not close

**Solution:**

- Check IR-Beam LED is ON and the connections of the wire loop. If Photocell are installed check they are working correctly. Remove them from the board and test if gates will close correctly.

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**Problem:** Gate moves at 2<sup>nd</sup> (Low) speed only

**Solution:**

- System is running on battery. Check transformer for power to control board.
- System is running on Solar.

**Problem:** Gates OPEN after 15 seconds or more by itself.

**Solution:**

- Motor is wired back-to-front at the control board. Reverse polarity of the motor wires at this point. Check (Green LED blinks when gate Opens) and that (Red LED blinks when gate Closes).

# EASY8 SLIDING GATE MOTOR AND CONTROL PANEL INSTALLATION GUIDE

## LIMITED WARRANTY

E8 warrants the original purchaser that for a period of twelve months from the date of purchase, the product shall be free of defects in materials and workmanship under normal use. During the warranty period, E8 shall, as its option, repair or replace any defective product upon return of the product to its factory, at no charge for labour and materials. Any replacement and/or repaired parts are warranted for the remainder of the original warranty or ninety (90) days, whichever is longer. The original owner must promptly notify E8 in writing that there is defect in material or workmanship; such written notice shall be received in all events prior to expiration of the warranty.

### International Warranty

The warranty for international customers is as the same as for any customer within Malaysia, with the exception that E8 shall not be responsible for any customs fees, taxes, or VAT that may be due.

### Warranty Procedure

To obtain service under this warranty, please return the item(s) in question to the point of purchase. All authorized distributors and dealers have a warranty program. Anyone returning goods to E8 must first obtain an authorization number. E8 will not accept any shipment for which prior authorization has not been used.

### Conditions to Void Warranty

This warranty applies only to defects in parts and workmanship relating to normal use. It does not cover:

- damage incurred in shipping or handling
- damage caused by disaster such as fire, flood, wind, earthquake or lightning
- damage due to causes beyond the control of E8 such as excessive voltage, mechanical shock or water damage
- damage caused by unauthorized attachment, alterations, modifications, or foreign objects.
- damage caused by peripherals (unless such peripherals were supplied by E8)
- defects caused by failure to provide a suitable installation environment for the products
- damage caused by used of the products for purpose other than those for which it was designed.
- damage from improper maintenance
- damage arising out of any other abuse, mishandling, and improper application of the products.

E8's liability for failure to repair the product under this warranty after a reasonable number of attempts will be limited to a replacement of the product, as the exclusive remedy for breach of warranty. Under no circumstances shall E8 be liable for any special, incidental, or consequential damages based upon breach of warranty, breach of contract, negligence, strict liability, or any other legal theory. Such damages include, but are not limited to, loss of profits, loss of the product or any associated equipment, cost of capital, cost of substitute or replacement equipment, facilities or services, down time, purchaser's time, the claims of third parties, including customers, and injury to property.

### Disclaimer of Warranties

This warranty contains the entire warranty and shall be in lieu of any and all other warranties, whether expressed or implied (including all implied warranties of merchantability or fitness for a particular purpose). And of all other obligations or purporting to act on its behalf to modify or to change this warranty, nor to assume for it any other warranty or liability concerning this product.

WARNING: E8 recommends the entire system be completely tested on a regular basis. However, despite frequent testing, and due to, but not limited to, criminal tampering or electrical disruption, it is possible for this product to fail to perform as expected.

### Out of Warranty Repairs

E8 will at this option repair or replace out-of-warranty products which are returned to its factory according to the following conditions. Anyone returning goods to E8 must first obtain an authorization number. E8 will not accept any shipment whatsoever for which prior authorization has not been obtained. Products which E8 determines to be repairable will be repaired and returned. A set fee which E8 has predetermined and which may be revised from time to time, will be charged for each unit repaired. Products which E8 determines not repairable will be replaced by the nearest equivalent product available at that time. The current market price for the replacement product will be charged for each replacement unit.

# EASY8 SLIDING GATE MOTOR AND CONTROL PANEL INSTALLATION GUIDE

## **WARNING Please Read Carefully**

### **Important Notice**

An auto gate system cannot prevent burglary. It is only a replacement way for user to open the door. Auto gate systems are generally very reliable but they may not work under all conditions and they are not a substitute for prudent security practices or life and property insurance. Your auto gate system should be installed and serviced by qualified security professionals who should instruct you on the level of protection that has been provided and on the system operations.

### **Note to Installers**

This warning contains vital information. As the only individual in contact with systems user, it is your responsibility to bring each item in this warning to the attention of the users of this system.

### **System Failures**

This system has been carefully designed to be as effective as possible. There are circumstances, however, involving fire, burglary, or other types of emergencies where it may not provide protection. Any auto gate system of any type may be compromised deliberately or may fail to operate as expected for a variety of reasons. Some but not all of these reasons may be:

#### **Inadequate Installation**

A security system must be installed properly in order to provide adequate protection. Every installation should be evaluated by a security professional to ensure that all measurement is correct.

#### **Criminal Knowledge**

This system contains security features which were known to be effective at the time of manufacture. It is possible for persons with criminal intent to develop techniques which reduce the effectiveness of these features. It is important that an auto gate system be reviewed periodically to ensure that its features remain effective and that it be updated or replaced if it is found that it does not provide the protection expected.

#### **Power Failure**

Control units require an adequate power supply for proper operation. If a device operates from batteries, it is possible for the batteries to fail. Even if the batteries have not failed, they must be charged, in good condition and installed correctly. If a device operates only by AC power, any interruption, however brief, will render that device inoperative while it does not have power. Power interruptions of any length are often accompanied by voltage fluctuations which may damage electronic equipment such as security system. After a power interruption has occurred, immediately conduct a complete system test to ensure that the system operates as intended.

#### **Failure of Replaceable Batteries**

The expected battery life is a function of the device environment, usage and type. Ambient conditions such as high humidity, high or low temperatures, or large temperature fluctuations may reduce the expected battery life. Low battery condition will cause the system in low power condition and having problem functioning as usual. Regular testing and maintenance will keep the system in good operating condition.

#### **Compromise of Radio Frequency (Wireless) Devices**

Signals may not reach the receiver under all circumstances which could include metal objects placed on or near the radio path or deliberate jamming or other inadvertent radio signal interference.

#### **Component Failure**

Although every effort has been made to make this system as reliable as possible, the system may fail to function as intended due to the failure of a component.

#### **Inadequate Testing**

Most problems that would prevent an auto gate system from operating as intended can be found by regular testing and maintenance. The complete system should be tested weekly and immediately after a break-in, an attempted break-in, a fire, a storm, an earthquake, an accident, or any kind of construction activity inside or outside the premises.

#### **Security and Insurance**

Regardless of its capabilities, an auto gate system is not a substitute for property of life insurance. An auto gate system also is not a substitute for property owners, renters, or other occupants to act prudently to prevent or minimize the harmful effects of an emergency situation.

[www.gateopener.co.nz](http://www.gateopener.co.nz)

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