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LIAMOS SL1000, SL600, SL1500

LIAMOS Automatic Sliding Gate Opener PCB AC Motor Circuit Card Power Controller

Models: SL1000, SL600, SL1500

Product Overview

This LIAMOS PCB (Printed Circuit Board) is designed to control automatic sliding gate openers, compatible with SL1000, SL600, and SL1500 models. It supports AC 220V/110V power input and provides comprehensive control functionalities for efficient and safe gate operation.

Key Features

- Keypad / single button interface.
- Infrared safety sensor interface.
- Soft start and soft stop function with adjustable width.
- Run back when meeting an obstacle.
- Adjustable working time.
- Adjustable motor output torque.
- User-selectable Auto-close function.

Kit Contents (Kit 3)

This specific product, Kit 3, includes one LIAMOS Automatic Sliding Gate Opener PCB and three remote controls. Please verify all components upon receipt.

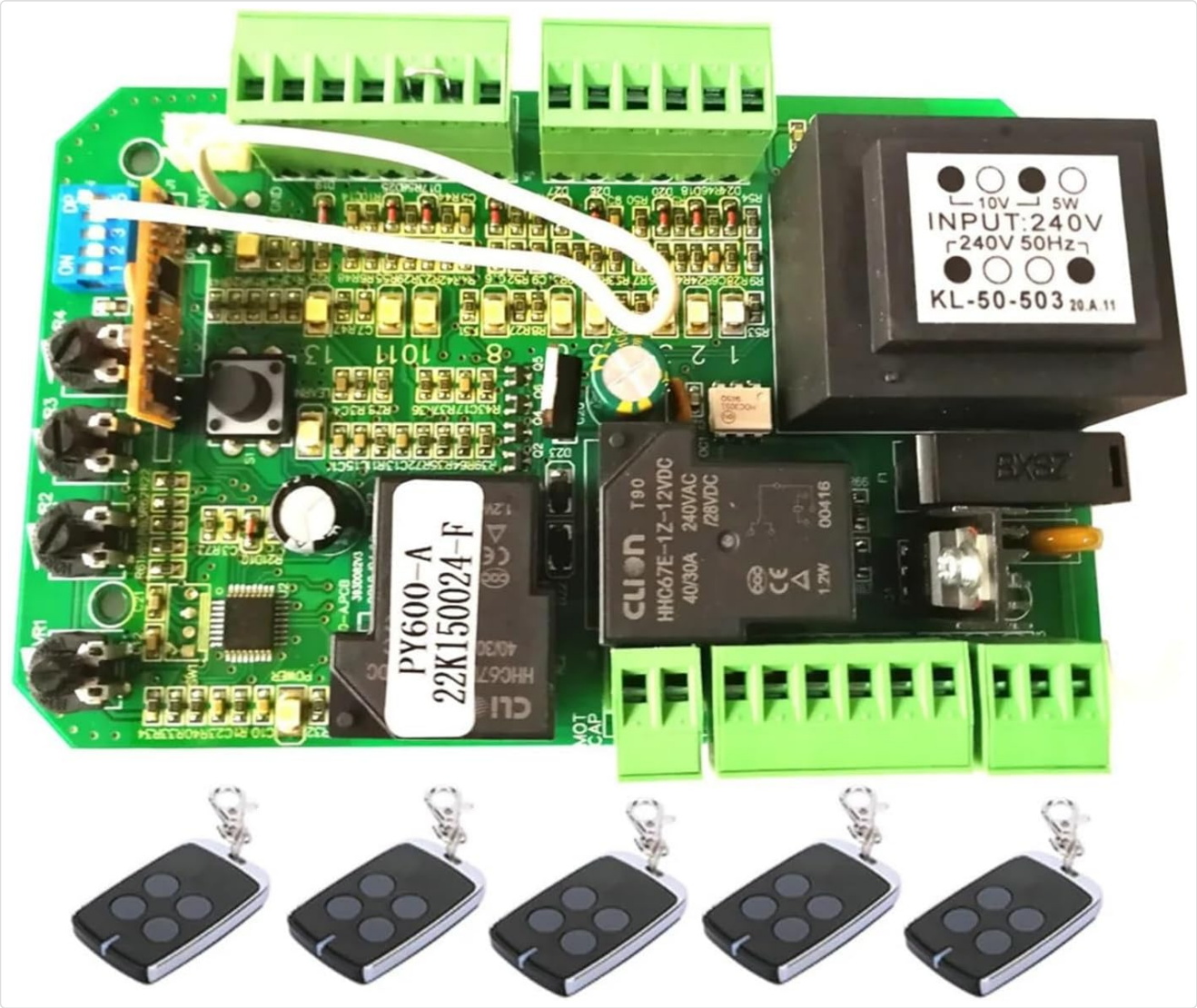


Image: The LIAMOS Automatic Sliding Gate Opener PCB AC Motor Circuit Card Power Controller is shown with three accompanying remote controls. The green circuit board features various components, including a black transformer and multiple terminal blocks for connections. The remote controls are black with several buttons.

Important Notes and Compatibility

- This board is designed exclusively for 240VAC sliding gate openers. It is not compatible with swing gate openers or garage door openers.
- This board only supports LIAMOS remote controls. It will not work with remote controls from other brands.
- Batteries for the remote controls are not included. Each remote control requires a 12V 27A battery.
- A digital manual will be sent via email. No physical manual is included in the package.
- The power input for the board is 240VAC ±10%.

Technical Specifications

Specification	Value
Item Weight	10 Grams
Assembly Required	No

Specification	Value
Number of Pieces	1
ASIN	B0DH88BJRY
Date First Available	Sept. 17 2024
Manufacturer	LIAMOS

Setup and Installation

Wiring Instructions

Follow these steps carefully to connect the PCB to your gate opener system. Ensure power is disconnected before performing any wiring.

1. Connect L and N to the power supply of AC110V/60HZ. L is the live wire, N is the neutral wire, and PE is the grounding wire.
2. Connect LAMP to the caution light. The voltage for the caution light is AC110V/60HZ.
3. Connect the motor wire MOT2 to the REV (Reverse) motor wire, connect MOT1 to the FWD (Forward) motor wire, and connect MOTCOM to the motor common wire.
4. Connect MOTCAP to the capacitor wire.

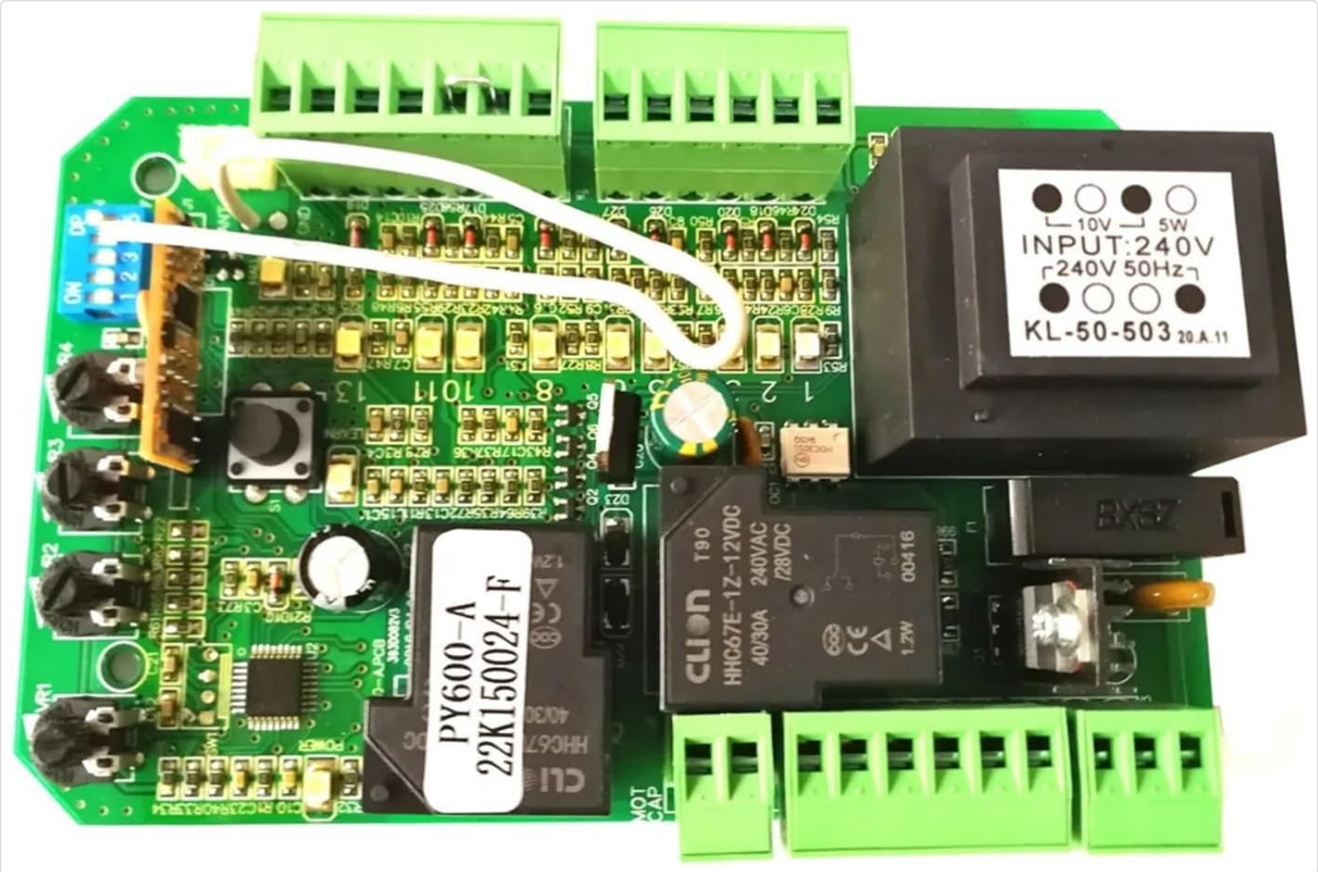


Image: A close-up view of the LIAMOS Automatic Sliding Gate Opener PCB, highlighting the green circuit board with its components, including the black transformer, relays, and various green terminal blocks for wiring connections. A white wire connects two sections of the board, indicating internal connections.

J2 Terminal Functions (with failure diagnosis light)

The J2 terminal provides connections for various control buttons:

1. Gate close control button (N.O. - Normally Open)
2. Gate open control button (N.O.)
3. Stop control button (N.O.)
4. Control button common terminal
5. Open/Stop/Close/Stop loop control button (N.O.)
6. Pedestrian mode control button (N.O.)

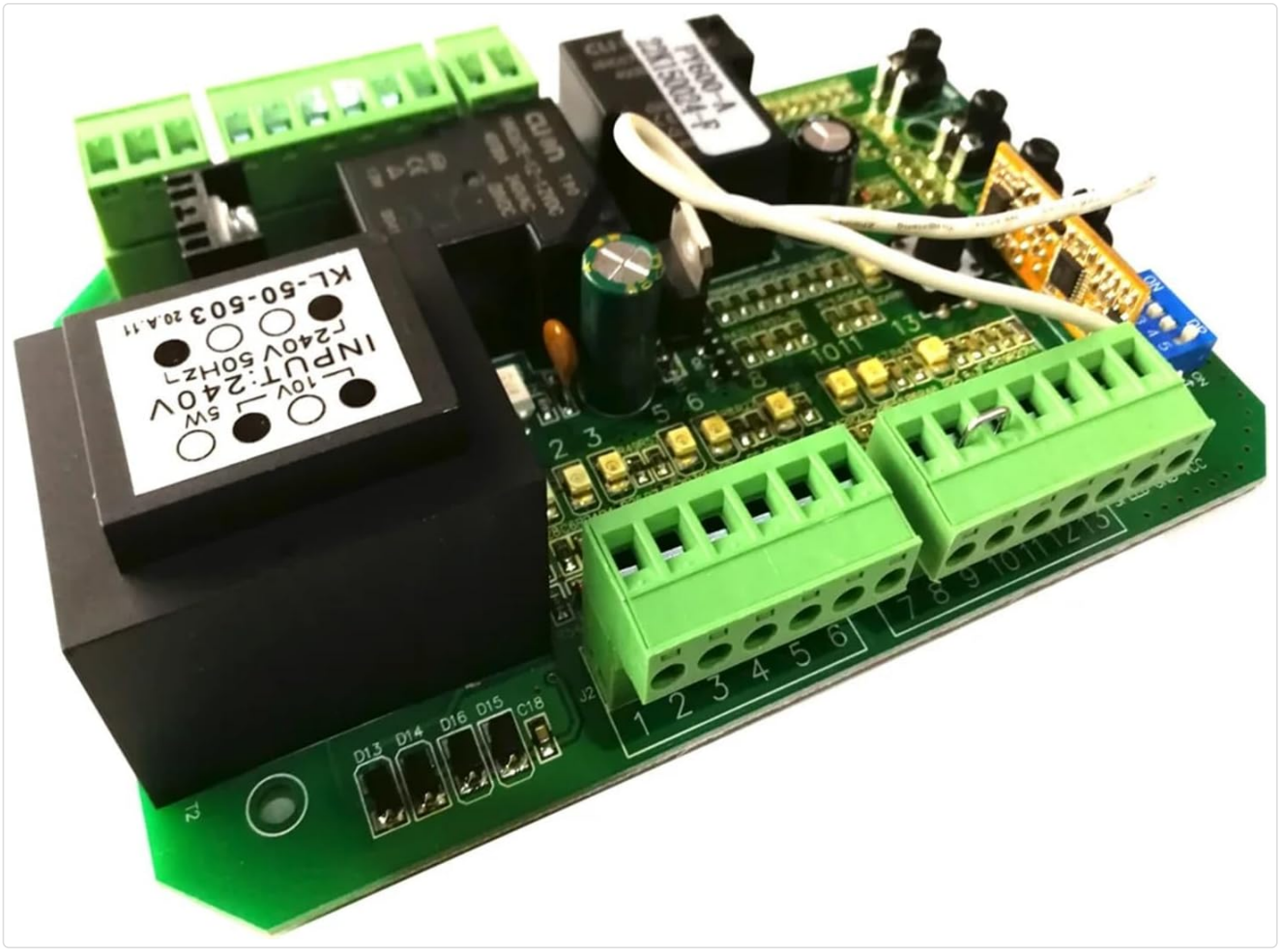


Image: An angled view of the LIAMOS Automatic Sliding Gate Opener PCB, showing the side profile of the black transformer and the arrangement of green terminal blocks. The circuit board's intricate traces and various electronic components are clearly visible.

J5 Terminal Functions (with failure diagnosis light)

The J5 terminal is used for power input and other specific connections:

1. Power input terminal.



Image: A top-down view of the LIAMOS Automatic Sliding Gate Opener PCB, focusing on the right side of the board. It shows the large black transformer, a black relay, and several green terminal blocks. A blue DIP switch block is also visible on the left side of the board.

Operating Instructions

The control board offers several adjustable functions for optimal gate operation:

- **Soft Start and Soft Stop:** The gate will begin and end its movement smoothly. The width of the soft stop can be adjusted to suit your preference.
- **Obstacle Detection:** If the gate encounters an obstacle during closing, it will automatically reverse its direction.
- **Adjustable Working Time:** The duration of the gate's operation can be set as required.
- **Adjustable Motor Output Torque:** The force exerted by the motor can be adjusted.
- **Auto-Close Function:** Users can enable an automatic closing feature, which will close the gate after a set period if left open.

Pedestrian Mode

When the gate is closed, pressing the pedestrian mode control button (J2 Terminal 6) will cause the gate to open approximately 1 meter, allowing pedestrian access without fully opening the gate.

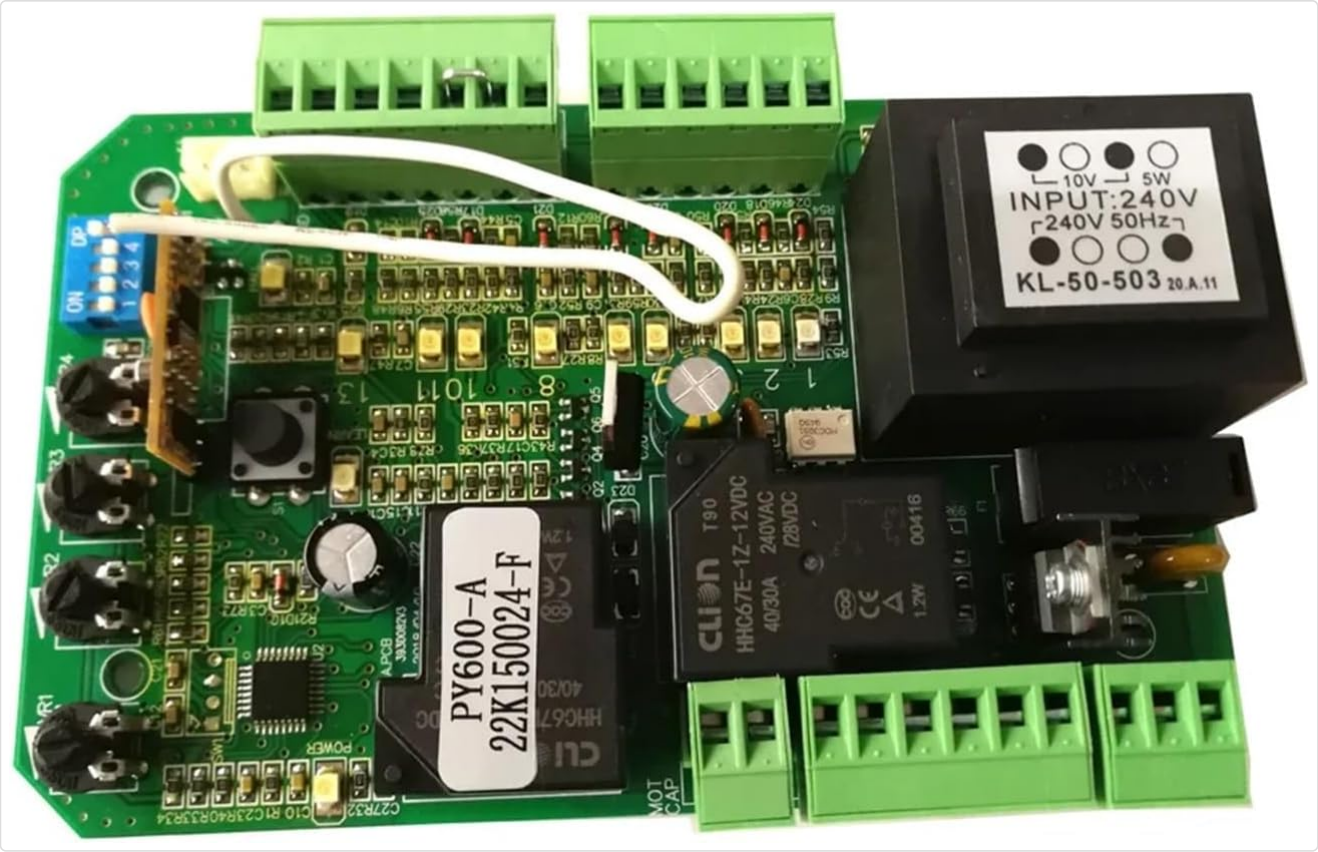


Image: A detailed view of the LIAMOS Automatic Sliding Gate Opener PCB, showcasing the various electronic components, including capacitors, resistors, integrated circuits, and the green terminal blocks. The board's model number 'PY600-A' is visible on a component, along with other markings.

Maintenance

To ensure the longevity and optimal performance of your LIAMOS gate opener PCB, regular maintenance is recommended:

- Periodically inspect all wiring connections to ensure they are secure and free from corrosion.
- Keep the PCB clean and free from dust, debris, and moisture. Use a soft, dry brush or compressed air for cleaning.
- Check for any signs of physical damage to the board or its components.
- Ensure proper ventilation around the control board to prevent overheating.

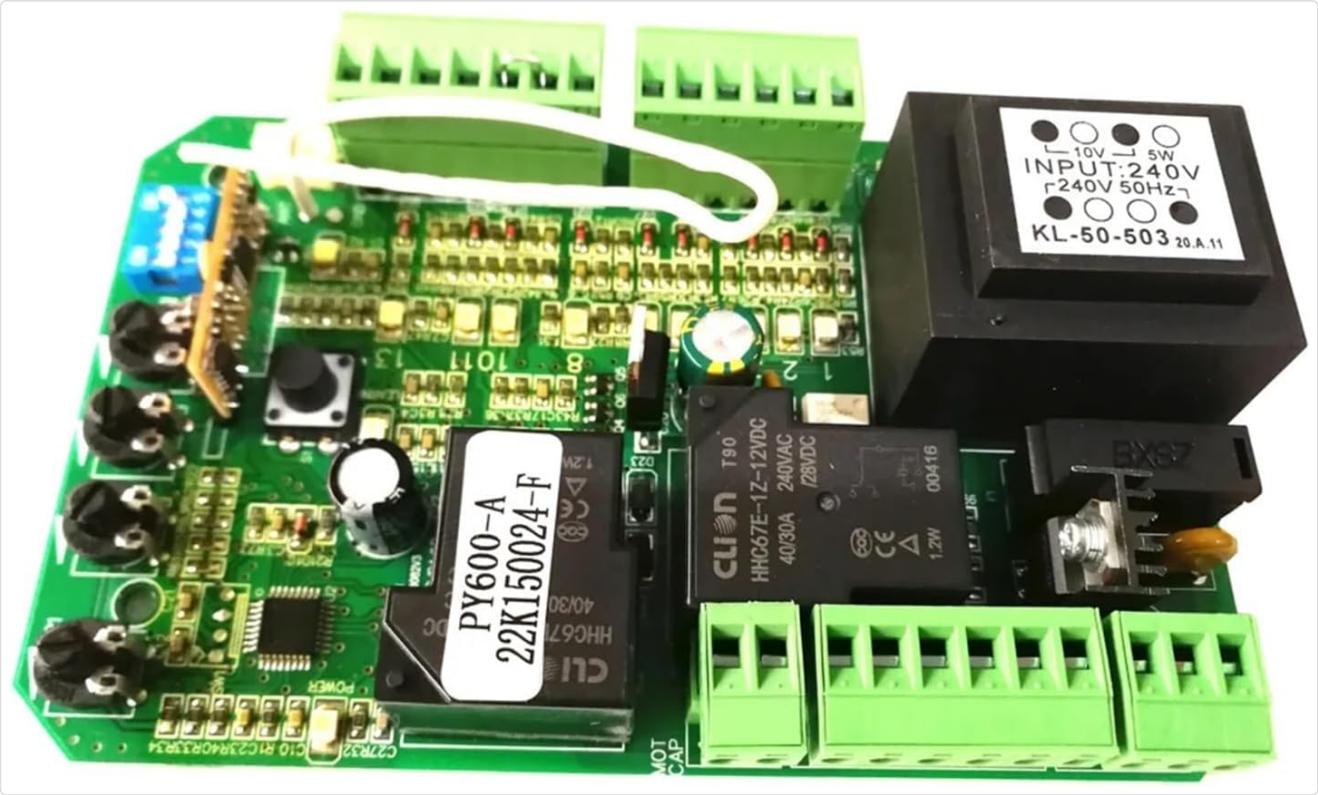


Image: An overhead view of the LIAMOS Automatic Sliding Gate Opener PCB, providing a clear layout of all major components. The black transformer, relays, and multiple green terminal blocks are prominently displayed, along with the blue DIP switches and adjustment potentiometers, offering a comprehensive view of the board's design.

Troubleshooting

If you encounter issues with your gate opener, consider the following basic troubleshooting steps:

- **No Power:** Check the power supply connection (L, N, PE) and ensure the power input is 240VAC. Verify that the power outlet is functional.
- **Gate Not Responding:** Ensure all control button wires are correctly connected to the J2 terminal. Check if the remote control battery needs replacement (12V 27A).
- **Gate Stops Unexpectedly:** Check the infrared safety sensor for obstructions or misalignment. Ensure motor wires (MOT1, MOT2, MOTCOM) and capacitor wire (MOTCAP) are securely connected.
- **Gate Movement Issues:** Adjust the working time and motor output torque settings as needed.

For persistent issues, it is recommended to consult a qualified technician or contact LIAMOS customer support.

Warranty and Support

Specific warranty details for this product are not provided within this manual. For information regarding warranty coverage, technical support, or service inquiries, please contact the manufacturer, LIAMOS, directly through their official channels or the retailer from whom the product was purchased.

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