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KING GATES STARG8 24

STARG8 24 King Gates Electronic Board User Manual

Model: STARG8 24 | Brand: KING GATES

1. INTRODUCTION

The King Gates STARG8 24 is an advanced electronic control board designed for automated gate systems. This new generation board replaces previous electronic control units, offering enhanced functionality and reliability for various gate automation applications. This manual provides essential information for the proper installation, operation, and maintenance of your STARG8 24 board.

2. SAFETY INFORMATION

Please read all safety warnings and instructions carefully before installing or operating the STARG8 24 electronic board. Failure to follow these instructions may result in serious injury or damage to the product.

- Installation must be performed by qualified personnel in compliance with local electrical and safety regulations.
- Disconnect power to the gate operator before performing any installation, maintenance, or troubleshooting.
- Ensure all wiring connections are secure and correctly polarized.
- Keep children and pets away from the gate area during operation.
- Do not modify the electronic board or its components. Use only original King Gates spare parts.
- Protect the board from moisture, dust, and extreme temperatures.

3. PRODUCT OVERVIEW

The STARG8 24 electronic board is the central control unit for your gate automation system. It manages motor operation, safety devices, and remote controls. Below is an image of the board, highlighting its key features and connections.



Figure 3.1: Front view of the King Gates STARG8 24 electronic board. This image displays the various terminals for connections, DIP switches for configuration, and control buttons for programming and manual operation. Key areas include motor type selection, photocell settings, and functional DIP switches.

The board is typically supplied in a protective packaging, ensuring its integrity during transport. The packaging also contains essential product identification labels.



Figure 3.2: The retail packaging for the King Gates STARG8 24 electronic board. The box is primarily black with a distinctive lime green top, featuring the 'KING GATES' logo prominently. This packaging protects the sensitive electronic components during shipping and storage.

4. SETUP AND INSTALLATION

4.1 Unpacking

Carefully remove the STARG8 24 board from its packaging. Inspect the board for any visible damage that may have occurred during transit. If any damage is found, do not proceed with installation and contact your supplier.



Figure 4.1: The King Gates STARG8 24 electronic board partially removed from its packaging. This view shows the board's orientation within the box and the protective material, indicating careful handling is required during unpacking.

4.2 Mounting

Mount the STARG8 24 board inside a suitable, weather-resistant enclosure, ensuring it is protected from direct exposure to elements, dust, and moisture. The enclosure should allow for adequate ventilation to prevent overheating. Use appropriate fasteners to secure the board firmly.

4.3 Wiring Connections

Refer to the wiring diagram provided with your gate operator system for specific connection points. Ensure all power connections (24V DC), motor connections, safety device inputs (photocells, safety edges), and accessory connections (flashing light, antenna) are made correctly and securely. Pay close attention to polarity.

5. OPERATING INSTRUCTIONS

5.1 Initial Power-Up

Once all wiring is complete and checked, apply power to the STARG8 24 board. The board will perform a self-test. Observe any indicator lights or error codes that may appear.

5.2 DIP Switch Settings

The STARG8 24 board features several DIP switches for configuring various operational parameters. Adjust these switches according to your specific gate system requirements. The image below shows the product label, which may contain model-specific information.



Figure 5.1: The product label on the King Gates STARG8 24 packaging. This label provides critical information such as the model number (STARG824 NG), part number (P/N 12S021), and batch number (BATCH 3223), along with manufacturing details and certifications.

Refer to the following tables for common DIP switch configurations:

Motor Type Configuration

DIP Switch	Setting (ON)	Description
MOTOR TYPE 1	ON	Configures for 2.8m / 4.2m gate length/type
MOTOR TYPE 2	ON	Configures for 2m gate length/type

Photocell (PHOTO-2) Configuration

DIP Switch	Setting (ON)	Description
PHOTO-2 1	ON	Fast photocell response
PHOTO-2 2	ON	Hazard mode for photocell

Function (FUNC) Configuration

DIP Switch	Setting (ON)	Description
FUNC 1	ON	Automatic closing enabled

DIP Switch	Setting (ON)	Description
FUNC 2	ON	Step-by-step operation enabled
FUNC 3-8	Varies	Advanced configuration. Refer to the complete programming manual for detailed settings.

5.3 Button Functions

The STARG8 24 board includes several buttons for programming and manual control:

- **SET:** Used to enter programming mode and confirm settings.
- **RADIO:** For programming remote controls and radio receivers.
- **START:** Initiates a gate cycle (open/close) for testing or manual operation.
- **PHOTO:** Tests the photocell safety devices.
- **STOP:** Halts the gate movement immediately.
- **ERROR:** Indicates an error condition. May also be used to clear errors or access diagnostic information.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your STARG8 24 electronic board and the entire gate automation system.

- **Annual Inspection:** Have a qualified technician inspect the board and all connections annually.
- **Cleaning:** Keep the board and its enclosure clean and free from dust, insects, and debris. Use a soft, dry brush or compressed air. Do not use liquids.
- **Wiring Check:** Periodically check all wiring connections for tightness and signs of wear or corrosion.
- **Safety Devices:** Regularly test all safety devices (photocells, safety edges) to ensure they are functioning correctly.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your STARG8 24 electronic board. For complex problems, contact a qualified technician.

Problem	Possible Cause	Solution
Gate does not move	No power; Safety device activated; Motor fault	Check power supply; Inspect safety devices (photocells); Consult technician for motor check.
Gate opens but does not close	Photocells obstructed or misaligned; Automatic closing disabled	Clear photocell path, realign; Check FUNC DIP switch 1 setting.
Remote control not working	Remote battery low; Remote not programmed; Receiver fault	Replace battery; Reprogram remote using RADIO button; Consult technician.
Error indicator light on	System fault; Overload; Sensor error	Refer to specific error codes in the full manual; Disconnect power, wait, reconnect; Consult technician.

8. TECHNICAL SPECIFICATIONS

Below are the key technical specifications for the King Gates STARG8 24 electronic board:

Feature	Specification
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Feature	Specification
Motor Power Supply	24 Volts (max 70 W / motor)
Integrated Radio Receiver	433.92 MHz
Operating Temperature	-20 °C to +55 °C
Item Weight	500 grams
Color	Black
Batteries Included/Required	No
Manufacturer	King Gates
ASIN	B07HM5GC2H
Date First Available	September 24, 2018

9. WARRANTY AND SUPPORT

King Gates products are manufactured to high quality standards. For information regarding warranty coverage, terms, and conditions, please refer to the documentation provided at the time of purchase or contact your authorized King Gates dealer. For technical support, spare parts, or service, please contact your local King Gates distributor or a qualified gate automation technician. Always provide the product model (STARG8 24) and any relevant serial or batch numbers (e.g., P/N 12S021, BATCH 3223) when seeking support.

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