

BENINCA BRAINY

BENINCA BRAINY Control Unit User Manual

Model: BRAINY

Brand: BENINCA

1. INTRODUCTION

The BENINCA BRAINY control unit is an advanced electronic system designed for the automated management of one or two motors, making it ideal for both swing and sliding gate applications. This manual provides essential information for the correct installation, operation, maintenance, and troubleshooting of your BRAINY control unit, ensuring optimal performance and longevity.

2. SAFETY INFORMATION

Please read and understand all safety instructions before installation and operation. Failure to follow these instructions may result in serious injury or damage to the product.

- Installation and maintenance must be performed by qualified personnel only.
- Disconnect power before performing any work on the control unit or connected motors.
- Ensure all electrical connections comply with local regulations and standards.
- Do not modify the control unit or its components. Use only original BENINCA spare parts.
- Keep children and pets away from the gate area during operation.
- Regularly check the safety devices (e.g., photocells, safety edges) for proper functioning.

3. PRODUCT OVERVIEW

The BRAINY control unit is housed in a robust enclosure, protecting its sophisticated internal circuitry. Key features include:



This image displays the BENINCA BRAINY control unit, showing the main circuit board housed within a protective grey enclosure. The board features various electronic components, connectors, and a central processing unit, indicating its role in managing gate operations.

- Integrated screen for simplified installation and programming.
- Multiple operating logics for versatile gate control.
- Separate encoder inputs for precise motor control.
- Automatic configuration of operational parameters for encoder-equipped motors.
- Built-in 433.92 MHz radio receiver with 64 code memory (programmable/variable).
- Electronic adjustment of torque and working times for each motor.
- Separate limit switch inputs for opening and closing.
- Independent slowdowns for smooth gate movement.
- Removable terminal blocks for easy wiring.
- Input for 8K2 safety edge.
- Compatibility with hydraulic operators.
- Programming access password for enhanced security.

4. SETUP AND INSTALLATION

Installation of the BENINCA BRAINY control unit should be carried out by a qualified technician to ensure safety and proper functionality. The following steps provide a general overview:

1. **Mounting:** Securely mount the control unit in a protected, accessible location near the gate motors, away from direct weather exposure.
2. **Power Connection:** Connect the main power supply to the designated terminals, ensuring proper grounding.
3. **Motor Connections:** Connect the gate motors to their respective terminals, paying attention to motor 1 and motor 2 assignments.
4. **Safety Device Connections:** Wire all safety devices (e.g., photocells, safety edges, flashing lights) to their dedicated inputs.
5. **Accessory Connections:** Connect any additional accessories such as keypads, push buttons, or external receivers.
6. **Encoder Connection:** If using encoder-equipped motors, connect the encoder cables to the separate encoder inputs.

- 7. **Initial Power-Up & Configuration:** Apply power and follow the on-screen prompts for initial setup, including automatic parameter configuration for encoder motors and programming of operating logics.
- 8. **Remote Control Programming:** Program the 433.92 MHz remote controls into the integrated receiver.
- 9. **Testing:** Thoroughly test all functions, including opening, closing, safety device activation, and slowdowns, to ensure correct operation.

5. OPERATING INSTRUCTIONS

Once installed and configured, the BENINCA BRAINY control unit provides intuitive operation for your gate system. Operation is typically initiated via remote control, push button, or other access control devices.

- **Opening/Closing:** Pressing the designated button on your remote control or access device will initiate the gate's movement (open or close, depending on its current state).
- **Stop Function:** A second press during movement will typically stop the gate.
- **Partial Opening (Pedestrian Mode):** If configured, a specific button may activate a partial opening for pedestrian access.
- **Automatic Closing:** The unit can be programmed for automatic closing after a set pause time. Ensure the area is clear before enabling this feature.
- **Safety Reversal:** If a safety device (e.g., photocell) detects an obstruction during closing, the gate will reverse its movement to prevent impact.
- **Manual Release:** In case of power failure, refer to your gate motor's manual for instructions on how to manually release the gate for operation.

6. MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of your BENINCA BRAINY control unit and the entire gate system. It is recommended to have a qualified technician perform annual checks.

- **Visual Inspection:** Periodically inspect the control unit enclosure for any signs of damage, moisture ingress, or loose connections.
- **Cable Checks:** Ensure all wiring is intact, securely connected, and free from fraying or damage.
- **Safety Device Testing:** Regularly test all safety devices (photocells, safety edges) to confirm they are functioning correctly.
- **Cleanliness:** Keep the control unit and surrounding area clean and free from dust, debris, and insects.
- **Battery Check (if applicable):** If your system includes backup batteries, check their charge and condition as per the battery manufacturer's guidelines.
- **Firmware Updates:** Consult with a BENINCA service center for any available firmware updates that may improve performance or add features.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter. For complex problems, contact a qualified technician.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Gate does not respond to remote control.	Remote control battery low/dead; remote not programmed; receiver fault; power issue.	Replace remote battery; reprogram remote; check power supply to control unit; consult technician.
Gate stops or reverses unexpectedly.	Safety devices (photocells, safety edge) obstructed or faulty; motor obstruction; incorrect force setting.	Clear obstructions; clean photocells; test safety devices; adjust motor force settings (consult manual or technician).
Gate moves slowly or erratically.	Motor issue; mechanical friction; low voltage; encoder issue.	Check gate mechanics for friction; verify power supply; inspect motor and encoder connections; consult technician.
Control unit display is off.	No power supply; fuse blown; internal fault.	Check main power breaker; inspect fuses on the control board; if fuses are good, contact support.

8. TECHNICAL SPECIFICATIONS

Specification	Value
Brand	BENINCA
Manufacturer	BENINCA
Model	BRAINY
Item Weight	2 kg
ASIN	B0106IG8R4
Radio Frequency	433.92 MHz (integrated receiver)
Motor Compatibility	1 or 2 motors (swing/sliding gates)
Encoder Inputs	Separate for each motor
Safety Edge Input	8K2
Hydraulic Operator Compatibility	Yes

9. WARRANTY AND SUPPORT

BENINCA products are manufactured to high-quality standards and are covered by a manufacturer's warranty against defects in materials and workmanship. The specific terms and duration of the warranty may vary by region. Please retain your proof of purchase for warranty claims.

For technical support, spare parts, or warranty service, please contact your authorized BENINCA dealer or visit the official BENINCA website for contact information in your region. When contacting support, please have your product model (BRAINY) and ASIN (B0106IG8R4) readily available.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question