BFT ALENA SW 2 D113811 00004

BFT ALENA SW 2 Control Board Instruction Manual

Model: **ALENA SW 2 (D113811 00004)**
Brand: **BFT**

1. Introduction and Safety Information

The BFT ALENA SW 2 (D113811 00004) is a sophisticated control board designed for the automation of one or two 230V operators, specifically for swing gates and industrial folding doors. This unit features DIP switches and potentiometers for precise configuration and includes deceleration management for smooth operation.

Important Safety Notice: This product is intended for professional use only. Installation and maintenance must be carried out by qualified and certified professional installers in accordance with local regulations (e.g., D.M. 37/2008 in Italy). Attempting "do-it-yourself" installation by private users without the necessary technical expertise can lead to potentially dangerous situations and will void the product warranty. The professional installer is responsible for issuing a fiscal document confirming the correct installation of the BFT product.

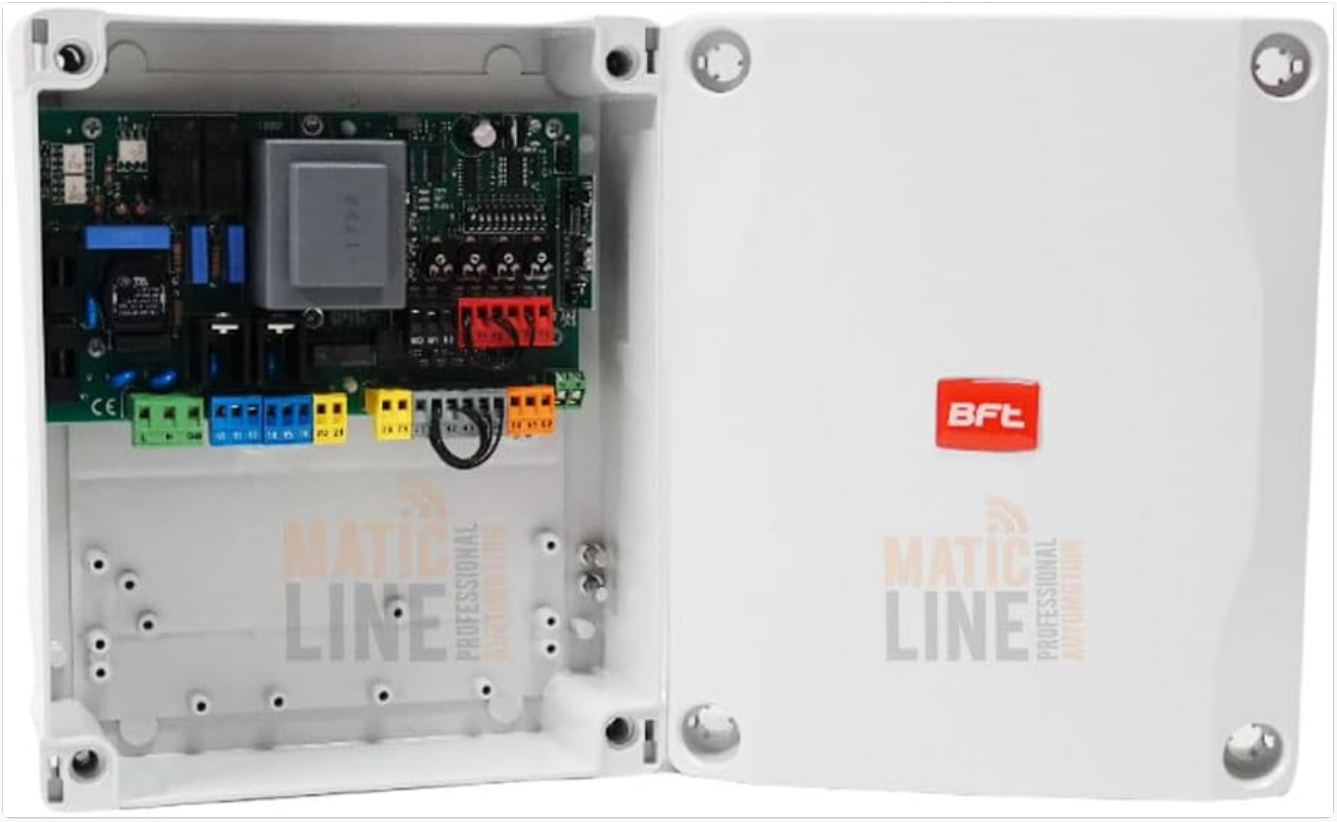

Figure 1: BFT ALENA SW 2 Control Board. This image displays the internal components of the control board, including the main circuit board, transformer, various colored terminal blocks for connections, and configuration elements like DIP switches and potentiometers, all housed within a durable white enclosure.

2. Setup and Installation

Installation of the BFT ALENA SW 2 control board requires specialized knowledge and adherence to electrical safety standards. It must be performed exclusively by a professional installer.

2.1 Pre-Installation Checks

- Ensure the power supply is disconnected before commencing any work.
- Verify that the gate or door operators are compatible with a 230V power supply and the control board's power output (400+400W).
- Confirm all necessary safety devices (photocells, safety edges) are present and functional.

2.2 Mounting the Control Board

Mount the control board in a secure, weather-protected enclosure, away from direct sunlight and moisture. Ensure adequate ventilation if required. Use appropriate fasteners to secure the unit firmly.

2.3 Electrical Connections

Refer to the wiring diagram provided with the product packaging for detailed connection instructions. Key connections typically include:

- **Main Power Supply:** Connect the 230V AC power supply to the designated terminals.
- **Motor Connections:** Connect the gate/door operators to the motor output terminals.
- **Safety Devices:** Connect photocells, safety edges, and emergency stop buttons to their respective safety input

terminals.

- **Command Devices:** Connect push buttons, remote control receivers, and key switches to the command input terminals.
- **Accessories:** Connect flashing lights, courtesy lights, and other accessories as per the diagram.

All wiring must comply with local electrical codes and standards. Use appropriate cable gauges for all connections.

3. Operating Instructions

Once installed and powered, the ALENA SW 2 control board can be configured and operated. Configuration is primarily done via DIP switches and potentiometers.

3.1 Initial Power-Up and Self-Learning

Upon first power-up, the control board may initiate a self-learning cycle to determine the gate/door travel limits and force. Follow the specific procedure outlined in the detailed product manual (not provided here) for this process.

3.2 Configuration via DIP Switches and Potentiometers

The control board features a set of DIP switches and potentiometers to adjust various operating parameters, including:

- **Operating Logic:** Automatic, semi-automatic, step-by-step.
- **Motor Force/Power:** Adjustment of motor power for opening and closing.
- **Deceleration Speed:** Setting the speed reduction at the end of travel.
- **Pause Time:** Duration before automatic closing (if enabled).
- **Safety Input Configuration:** Normally Open (NO) or Normally Closed (NC) for safety devices.

Consult the comprehensive technical manual for the exact function of each DIP switch and potentiometer setting. Incorrect settings can affect performance and safety.

3.3 Basic Operation

Once configured, the gate/door can be operated using connected command devices (e.g., remote control, push button). A single command typically cycles through Open-Stop-Close-Stop.

4. Maintenance

Regular maintenance by a qualified professional is essential to ensure the longevity and safe operation of the BFT ALENA SW 2 control board and the automated system.

4.1 Routine Checks (Professional Only)

- **Visual Inspection:** Check for any signs of damage, corrosion, or loose connections on the control board and wiring.
- **Terminal Tightness:** Ensure all terminal screws are securely tightened.
- **Safety Devices:** Test the functionality of all connected safety devices (photocells, safety edges, emergency stops) regularly.

- **Motor Operation:** Observe the smooth operation of the gate/door, checking for unusual noises or jerky movements.
- **Deceleration:** Verify that the deceleration function is working correctly at the end of travel.

4.2 Cleaning

Ensure the control board and its enclosure are kept clean and free from dust, debris, and insects. Use a soft, dry brush or compressed air for cleaning. Do not use liquid cleaners directly on the electronic components.
Note: Always disconnect power to the control board before performing any maintenance or cleaning.

5. Troubleshooting

This section provides general guidance for common issues. For detailed diagnostics and repair, always consult a qualified professional.

Problem	Possible Cause	Solution (Professional Action)
Gate/Door does not move.	No power, faulty motor, safety device activated, remote control battery low.	Check power supply, inspect motor connections, verify safety device status, replace remote battery.
Gate/Door stops unexpectedly.	Obstruction detected, safety device triggered, motor overheating.	Remove obstruction, check safety device alignment/function, allow motor to cool.
Gate/Door opens but does not close.	Safety device issue (e.g., photocells blocked), closing limit switch fault.	Clean/align photocells, inspect limit switch wiring/function.
Irregular operation or erratic behavior.	Incorrect DIP switch settings, loose connections, interference.	Review DIP switch settings against manual, check all wiring connections, investigate sources of electrical interference.

If the problem persists after basic checks, contact a qualified BFT service technician or the professional installer.

6. Specifications

The following are the key technical specifications for the BFT ALENA SW 2 control board:

- **Model:** ALENA SW 2
- **Part Number:** D113811 00004
- **Application:** Control board for one or two operators
- **Compatibility:** Designed for swing gates and industrial folding doors
- **Input Voltage:** 230V AC
- **Motor Output Power:** 400W + 400W (total 800W)
- **Configuration:** DIP switches and potentiometers
- **Features:** Deceleration management

- **Manufacturer:** BFT

7. Warranty and Support

The warranty for BFT products is subject to specific conditions, primarily requiring professional installation. As stated in the legal information provided by the seller (Matic Line), the warranty is valid only if the product is installed by a qualified professional installer who issues a fiscal document confirming the installation.
Private users who purchase this product and do not arrange for professional installation may not be able to avail themselves of the warranty, especially in cases of potentially dangerous situations arising from improper installation due to a lack of technical competence.
For technical support, warranty claims, or professional installation services, please contact your certified BFT installer or the authorized distributor from whom the product was purchased. Matic Line, as the seller, ensures all products are new, sealed in original packaging, and undergo thorough inspection before shipment.