CAME ZBX-10

CAME ZBX-10 Control Board User Manual

Model: ZBX-10 | Brand: CAME

1. INTRODUCTION

This user manual provides comprehensive instructions for the installation, operation, and maintenance of the CAME ZBX-10 control board. The ZBX-10 is designed for controlling automatic gate systems, ensuring reliable and safe operation. Please read this manual carefully before proceeding with installation or use to ensure proper functionality and to prevent damage or injury.

2. SAFETY INSTRUCTIONS

Always adhere to local electrical codes and safety regulations during installation and maintenance. Installation should only be performed by qualified personnel. Disconnect power before performing any wiring or maintenance. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Ensure the main power supply is disconnected before any electrical connections are made or adjusted.
- Use appropriate personal protective equipment (PPE) during installation.
- Do not expose the control board to moisture or extreme temperatures.
- Verify all connections are secure and correct before applying power.
- Keep children and unauthorized persons away from the gate area during operation and maintenance.

3. PRODUCT OVERVIEW

The CAME ZBX-10 is a robust control board designed for managing the movement of automatic gates. It features various inputs and outputs for connecting motors, safety devices, and command accessories. Key components include power terminals, motor connection terminals, safety input terminals, and programming buttons.
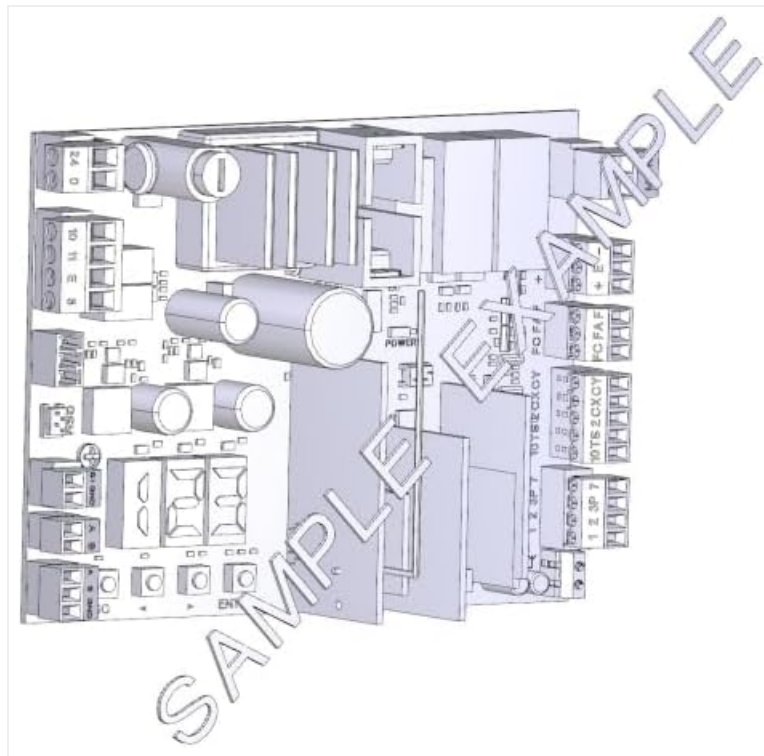
Figure 1: An isometric view of the CAME ZBX-10 control board, showing various electronic components, capacitors, and terminal blocks for connections. Labels such as 'POWER', '24 0', '10 11 E 8', '1 2 3P 7', '10TS 2CXCY FO FAF' are visible on the board, indicating different connection points and functionalities.

The board includes terminals for 24V power supply, motor connections, and various control inputs. The digital display and buttons allow for configuration and status monitoring.

4. SETUP AND INSTALLATION

Before beginning installation, ensure all necessary tools and components are available. Mount the control board in a protective enclosure, away from direct weather exposure and vibrations. Follow the wiring diagram provided with your gate system for specific connections.

1. **Mounting:** Securely mount the ZBX-10 control board inside a suitable, weather-resistant enclosure. Ensure adequate ventilation.
2. **Power Connection:** Connect the main power supply to the designated terminals (e.g., '24 0' or 'POWER' as indicated on the board). Ensure correct voltage and polarity.
3. **Motor Connection:** Connect the gate motor(s) to the motor output terminals. Refer to the motor's specific wiring requirements.
4. **Safety Device Connection:** Connect safety photocells, emergency stop buttons, and other safety devices to their respective input terminals (e.g., 'FO FAF').
5. **Command Device Connection:** Connect remote control receivers, keypads, or push buttons to the command input terminals (e.g., '10 11 E 8').
6. **Grounding:** Ensure proper grounding of the control board and the gate system components to prevent electrical hazards.
7. **Initial Power-Up:** After all connections are verified, apply power to the control board. Observe the status indicators and digital display for initial diagnostics.

5. OPERATING INSTRUCTIONS

The CAME ZBX-10 control board allows for various operational modes and programming options. Refer to the

detailed programming guide for specific parameter adjustments.

- **Basic Operation:** Once powered, the board is ready to receive commands from connected devices. A typical command will initiate the gate opening or closing cycle.
- **Programming Modes:** Access programming modes using the onboard buttons and digital display. Common settings include motor force, opening/closing speeds, pause time, and safety input configurations.
- **Manual Override:** In case of power failure or system malfunction, most gate systems connected to the ZBX-10 will have a manual release mechanism. Consult your gate system's manual for details.

6. MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of your CAME ZBX-10 control board and the associated gate system. Perform checks at least annually, or more frequently in high-use environments.

- **Power Disconnection:** Always disconnect power to the control board before performing any maintenance.
- **Visual Inspection:** Check for any signs of wear, corrosion, or loose connections on the board and its terminals.
- **Cleaning:** Gently clean the board with a soft, dry brush or compressed air to remove dust and debris. Do not use liquids.
- **Terminal Check:** Ensure all terminal screws are tight and connections are secure.
- **Functionality Test:** After maintenance, test all safety devices and operational commands to ensure proper function.

7. TROUBLESHOOTING

This section provides solutions for common issues. For complex problems, consult a qualified technician.

Problem	Possible Cause	Solution
Gate does not respond to commands.	No power, faulty remote, safety device activated, loose wiring.	Check power supply. Replace remote battery. Inspect safety devices for obstructions or faults. Verify all wiring connections.
Gate opens but does not close.	Safety photocells obstructed or misaligned, closing limit switch issue.	Clear photocell path, clean lenses, realign photocells. Check limit switch operation.
Motor runs but gate does not move.	Motor clutch disengaged, mechanical obstruction.	Check if the gate is in manual release mode. Inspect for physical obstructions in the gate's path or mechanism.

8. SPECIFICATIONS

Technical specifications for the CAME ZBX-10 Control Board:

Manufacturer: CAME

Model: ZBX-10

Item Weight: 1 Kilogram

ASIN: B00P92LOGS

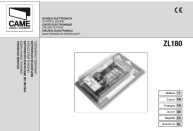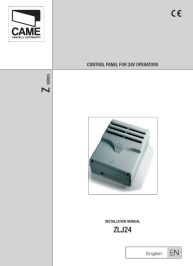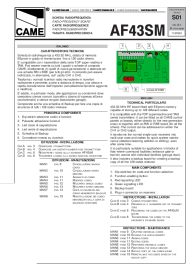**First Available Date:** 11 March 2020

Number of Package Items: 1

9. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided at the time of purchase or contact your authorized CAME dealer. Technical support can be obtained through your supplier or by visiting the official CAME website for contact details and further resources.

Related Documents

	CAME ZLJ24 Control Board Installation and Operation Manual This manual provides detailed information on the CAME ZLJ24 control board, including electrical connections, programming functions, and safety features for automated gate systems.
	CAME ZL180 Control Board Installation and Operation Manual This manual provides detailed instructions for the installation, wiring, and operation of the CAME ZL180 control board for automatic gates. It covers electrical connections, gearmotor and accessory configurations, function selections, and troubleshooting.
	CAME ZLJ24 Control Panel Installation Manual Comprehensive installation manual for the CAME ZLJ24 control panel, designed for 24V DC swing gate operators. Covers technical features, electrical connections, programming, safety, and troubleshooting.
	CAME AF43SM Radio Frequency Board - Technical Manual Technical documentation for the CAME AF43SM radio frequency board, detailing its features, components, installation, and maintenance procedures. The board operates at 433.92 MHz and can store up to 128 different codes, compatible with CAME TOP super-reactive and TAM series transmitters.

Documents - CAME – ZBX-10

[pdf] User Manual Instructions

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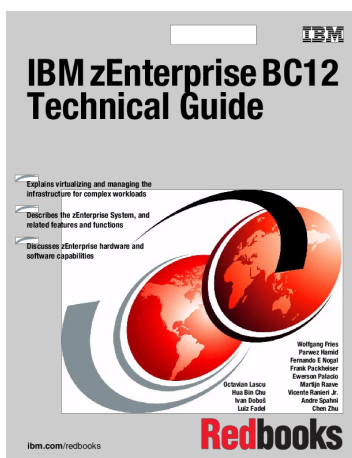lang:en score:17 filesize: 4.95 M page_count: 36 document date: 2018-04-17
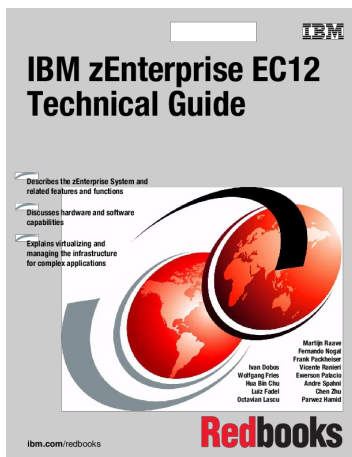
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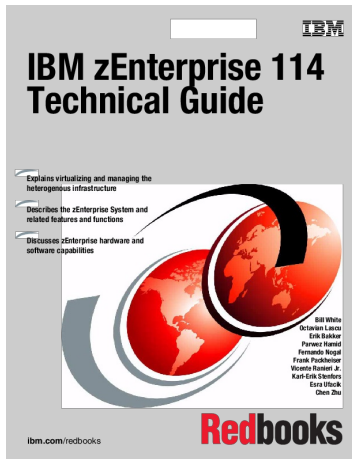
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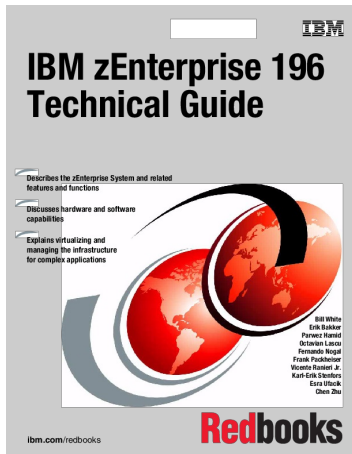
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