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CO-Z RA3301

CO-Z 550W Automatic Sliding Gate Opener User Manual

Model: RA3301 | Brand: CO-Z

1. IMPORTANT SAFETY INSTRUCTIONS

Please read and understand all instructions thoroughly before installation and operation. Failure to follow these instructions may result in serious injury or property damage. Keep this manual for future reference.

- **General Safety:** This gate opener is designed for sliding gates. Do not use it for other purposes.
- **Installation:** Installation must be performed by qualified personnel. Ensure all electrical connections comply with local codes and regulations.
- **Obstacle Detection:** The system includes infrared sensors for obstacle detection. Regularly test these sensors to ensure proper function.
- **Children and Pets:** Keep children and pets away from the gate area, especially during operation. Do not allow children to play with the gate opener or its controls.
- **Manual Release:** Familiarize yourself with the manual release mechanism for emergency situations or power outages.
- **Maintenance:** Perform regular maintenance as described in this manual to ensure safe and reliable operation.
- **Overheat Protection:** The motor is equipped with overheat protection. If the motor stops due to overheating, allow it to cool down before resuming operation.

2. PACKAGE CONTENTS

Verify that all components listed below are present in your package. If any items are missing or damaged, please contact customer support.

PACKAGE INCLUDES



1 × Motor and Control Board

2 × Manual Release Keys

2 × Remote Controls

1 × Mounting Plate

12 × Module 4 Racks

2 × Limit Switches with Accessories

4 × M10 Foundation Bolts

4 × M6×10 Mounting Bolts

4 × M10×50 Hex Bolts

24 × Self-Tapping Screws

24 × Mounting Lugs

8 × M10 Flat Washers

8 × M10 Spring Washers

8 × M10 Nuts

2 × Infrared Sensors

1 × User Manual

Image: All components included in the CO-Z Sliding Gate Opener kit.

- 1 x Motor and Control Board
- 2 x Manual Release Keys
- 2 x Remote Controls
- 1 x Mounting Plate
- 12 x Module 4 Racks (Nylon Gear Racks)
- 2 x Limit Switches with Accessories
- 4 x M10 Foundation Bolts
- 4 x M6x10 Mounting Bolts
- 4 x M10x50 Hex Bolts
- 24 x Self-Tapping Screws
- 24 x Mounting Lugs
- 8 x M10 Flat Washers
- 8 x M10 Spring Washers
- 8 x M10 Nuts

- 2 x Infrared Sensors
- 1 x User Manual (this document)

3. SPECIFICATIONS

Input Voltage	230 V / 50 Hz
Rated Power	550 W
Torque	32 Nm
Max. Gate Width	12.2 m
Max. Gate Weight	1500 kg
Gate Speed Range	11-13 m/min.
Remote Control Range	30 m
Weather Resistance	IP44
Max. Remote Controls Supported	40
Max. Noise Level	56 dB
Temperature Range	-20 to 70 °C
Gear Rack Material	Nylon
Product Dimensions	27.1 x 22.8 x 28 cm
Item Model Number	RA3301



SPECIFICATIES

Ingangsspanning	Nominaal vermogen
230 V / 50 Hz	550 W
Krachtsmoment	Max. poortbreedte
32 N-m	12,2 m
Max. poortgewicht	Bereik poortsnelheid
1500 kg	11-13 m/min.
Bereik afstandsbediening	Weerbestendigheid
30 m	IP44
Max. afstandsbedieningen	Max. geluidsniveau
40	56 dB
Temperatuurbereik	Materiaal tandheugel
-20 tot 70 °C	Nylon

Image: Technical diagram showing product specifications and dimensions.

4. SETUP AND INSTALLATION

This section outlines the general steps for installing your CO-Z Automatic Sliding Gate Opener. For detailed diagrams and

specific wiring instructions, please refer to the included installation guide.

4.1 Site Preparation

- Ensure the gate slides smoothly and is properly aligned.
- Clear any obstructions along the gate's path.
- Prepare a stable, level concrete pad or foundation for mounting the opener unit.

4.2 Mounting the Opener Unit

1. Position the mounting plate on the prepared foundation, ensuring it is level and correctly aligned with the gate.
2. Mark the drilling points for the M10 foundation bolts.
3. Drill holes and secure the mounting plate using the foundation bolts, washers, and nuts.
4. Mount the gate opener unit onto the secured mounting plate using the M6x10 mounting bolts.



Image: The CO-Z sliding gate opener unit installed on a concrete base.

4.3 Installing the Gear Racks

Attach the nylon gear racks to the bottom edge of your sliding gate. Ensure the racks are level and maintain a small clearance (approx. 1-2mm) from the opener's drive gear to allow for smooth operation and prevent binding.



Image: Two black nylon gear racks with mounting brackets, used for gate movement.

4.4 Electrical Connections and Sensors

- Connect the power supply to the control board according to the wiring diagram in the detailed manual.
- Install the infrared sensors on opposite sides of the gate opening, ensuring they are aligned and free from obstructions. These sensors detect obstacles and prevent the gate from closing.
- Connect the limit switches to the control board. These switches define the open and closed positions of the gate.



Image: Close-up view of the gate opener's control board with various wiring terminals.

5. OPERATING INSTRUCTIONS

Your CO-Z gate opener offers various modes of operation for convenience and security.

5.1 Remote Control Operation

- **Opening/Closing:** Press the designated button on your remote control to open or close the gate. A single press will initiate the movement.
- **Stopping:** Press the same button again during gate movement to stop the gate at any desired position.
- **Range:** The remote control has an operating range of up to 30 meters. Ensure a clear line of sight for optimal performance.
- **Pairing Remotes:** Refer to the detailed manual for instructions on pairing additional remote controls (up to 40 supported).



Image: Two remote controls with multiple buttons for operating the gate opener.

5.2 Automatic Closing Function

The gate opener can be programmed to close automatically after a set delay (e.g., 15, 30, or 45 seconds). Consult the control board programming section in your detailed manual to enable and configure this feature.

5.3 Pedestrian Mode

This mode allows the gate to open partially, providing enough space for pedestrian access without fully opening the gate. This feature can be activated via a dedicated remote button or programmed through the control board.

5.4 Manual Release

In case of a power outage or system malfunction, the gate can be operated manually. Locate the manual release key slot on the opener unit, insert the key, and turn it to disengage the motor. This allows you to push the gate open or closed by hand.



Image: Close-up of the manual release mechanism on the gate opener, showing the key slot.

6. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your gate opener.

- **Monthly:**

- Inspect the gate's movement for any signs of friction or binding. Lubricate gate rollers and hinges if necessary.
- Clean the infrared sensors to ensure they are free from dirt, dust, or spiderwebs.
- Test the obstacle detection system by placing an object in the gate's path during closing. The gate should stop and reverse.

- **Quarterly:**

- Check all mounting bolts and screws for tightness.
- Inspect the gear racks for wear or damage. Replace if necessary.
- Verify that the manual release mechanism functions correctly.

- **Annually:**

- Have a qualified technician inspect the electrical connections and motor for any signs of wear or corrosion.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter. For more complex problems, please contact customer support.

Problem	Possible Cause	Solution
Gate does not respond to remote control.	Remote control battery is low or dead. Remote control is out of range. Remote control is not paired. Power supply to the opener is off.	Replace remote control battery. Move closer to the gate opener. Refer to manual for remote pairing instructions. Check power connection and circuit breaker.
Gate stops or reverses unexpectedly.	Infrared sensors are obstructed or misaligned. Obstacle in the gate's path. Gate is binding or encountering resistance.	Clean and align infrared sensors. Remove any obstacles. Inspect gate for smooth movement; lubricate if needed.
Motor runs but gate does not move.	Manual release is engaged. Drive gear is not engaging with the rack. Damaged gear rack.	Disengage manual release. Check alignment of opener and gear rack. Inspect and replace damaged gear rack sections.
Gate opens/closes only partially.	Limit switches are incorrectly set. Obstruction preventing full travel.	Adjust limit switch positions according to the manual. Clear any obstructions.

8. WARRANTY AND SUPPORT

CO-Z products are designed for durability and performance. This product comes with a standard manufacturer's warranty against defects in materials and workmanship. Please refer to your purchase documentation or the CO-Z official website for specific warranty terms and conditions.

For technical assistance, troubleshooting not covered in this manual, or to inquire about replacement parts, please contact CO-Z customer support:

- **Website:** Visit the official CO-Z website for FAQs and support contact information.
- **Email:** Refer to your product packaging or the CO-Z website for customer service email.
- **Phone:** Refer to your product packaging or the CO-Z website for customer service phone numbers.

When contacting support, please have your product model number (RA3301) and purchase date available.

