

CO-Z SGO

CO-Z 550W 1500KG Sliding Gate Motor

MODEL: SGO - INSTRUCTION MANUAL

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your CO-Z 550W 1500KG Sliding Gate Motor. Please read this manual thoroughly before installation and use to ensure safe and efficient operation. Keep this manual for future reference.

1.1 Safety Information

- Ensure all electrical connections are made by a qualified electrician and comply with local regulations.
- Always disconnect power before performing any maintenance or adjustments.
- Keep children and pets away from the gate area during operation.
- Do not attempt to repair the motor or control board yourself. Contact qualified service personnel.
- Ensure infrared sensors are correctly installed and functioning to prevent accidents.

2. Product Overview & Components

The CO-Z 550W Sliding Gate Motor is designed for automatic operation of sliding gates up to 1500KG and 12.2 meters in length. It features robust construction, multiple safety functions, and convenient remote control access.

2.1 Key Features

- **Power:** 550W motor for reliable operation.
- **Capacity:** Supports gates up to 1500KG and 12.2m.
- **Remote Control:** Up to 30m range, supports up to 40 remotes.
- **Safety:** Infrared sensors for obstacle detection, soft start/stop, overheat protection, pedestrian mode.
- **Durability:** IP44 rated housing for all-weather resistance.

2.2 Package Contents

Verify that all components are present before beginning installation:

- 1x Motor and Control Board
- 2x Manual Release Keys

- 2x Remote Controls
- 1x Mounting Plate
- 12x Module 4 Racks (4m total)
- 2x Limit Switches with Accessories
- 4x M10 Foundation Bolts
- 4x M6×10 Mounting Bolts
- 4x M10×50 Hexagonal Bolts
- 24x Self-tapping Screws
- 24x Mounting Lugs
- 8x M10 Flat Washers
- 8x M10 Spring Washers
- 8x M10 Nuts
- 2x Infrared Sensors
- 1x User Manual



Figure 2.1: All components included in the CO-Z Sliding Gate Motor package.

3. Setup & Installation

Follow these steps carefully for proper installation. Refer to the provided video for visual guidance.

3.1 Rack Installation

1. Align one rack with the pinion gear of the motor.
2. Mark the drilling points on the gate for the rack.
3. Pre-install the racks without fully tightening the screws, ensuring proper alignment with the pinion.
4. Repeat for all rack sections, ensuring a small gap (approx. 1mm) between rack sections to allow for thermal expansion.
5. Once all racks are in place and aligned, securely tighten all self-tapping screws.

Your browser does not support the video tag.

Video 3.1: Detailed guide on installing the gate racks and motor unit. This video demonstrates drilling holes based on gear height, pre-installing racks, threading power lines, connecting wires to the mainboard, and securing the gate opener to its base.

3.2 Motor Unit Installation

1. Prepare a stable concrete base for the motor unit.
2. Thread the power line through the pre-cast concrete base and the wire hole in the gate opener.
3. Place the motor unit on the mounting plate, ensuring the pinion aligns with the gate rack.
4. Secure the gate opener to the base using the provided foundation bolts. Refer to the manual for appropriate drilling and fixing methods.

5. Connect the power line's three wires (Live, Neutral, Ground) to the mainboard. Ensure the ground wire is not mixed with live or neutral wires.

3.3 Limit Switch Installation

The limit switches define the open and closed positions of the gate.

1. Assemble the high and low magnetic limit switches.
2. To install the high magnetic limit switch: Power on the opener, manually move the gate to the far right, then move it 2-4 inches to the left. Slide the high limit switch along the rack to the right until the 13th indicator light on the mainboard lights up. Secure with screws.
3. To install the low magnetic limit switch: Manually move the gate to the far left, then move it 2-4 inches to the right. Slide the low limit switch along the rack to the left until the 13th indicator light on the mainboard lights up. Secure with screws.

3.4 Infrared Sensor Installation

Infrared sensors provide an essential safety feature, stopping the gate if an obstruction is detected.

1. Connect the receiver V+ to 24V, V- and COM to GND, and NC to IR.
2. Connect the transmitter V+ to 24V and V- to GND.
3. Match transmitter and receiver wires based on colors. Twist together transmitter V+ with receiver V+ and transmitter V- with receiver V- and COM.
4. Disconnect the mainboard signal terminal, and remove the short circuit. Connect all the wires to the signal terminal, and then plug it back in.
5. Align and install the transmitter and receiver in the desired location, ensuring they are at the same height.
6. After installation, the 8th indicator light on the mainboard lights up with no detected obstacles and goes out if obstacles are detected.

4. Operating Instructions

4.1 Remote Control Pairing

To pair your remote control with the gate opener:

1. Hold down the S1 button on the mainboard until the nearby indicator light turns on.
2. Press the remote button twice. If the indicator light flashes and goes out, your remote is paired.

4.2 Basic Operation

- Press the paired remote button to open or close the gate.
- The gate features soft start and stop for smooth operation.
- **Pedestrian Mode:** Allows the gate to open partially for pedestrian access. Refer to the mainboard settings for configuration.
- **Automatic Closing:** The gate can be set to close automatically after 15, 30, or 45 seconds.

4.3 Safety Features Test

Regularly test the safety features to ensure proper functionality.

- **Infrared Sensors:** To test, press the remote button to close the gate. Walk through the infrared beam. The gate should stop and retract. Infrared sensors are inactive during opening.
- If the gate closes when a pedestrian passes during opening but not during closing, adjust DIP 2 on the mainboard.

5. Maintenance

To ensure the longevity and optimal performance of your CO-Z Sliding Gate Motor, regular maintenance is recommended.

- **Cleanliness:** Keep the motor unit and gate tracks free from dirt, debris, and leaves.
- **Lubrication:** Periodically lubricate the gate rollers and hinges with appropriate grease. Avoid lubricating the gear rack.
- **Inspection:** Regularly check all mounting bolts, screws, and electrical connections for tightness and wear.
- **Sensor Check:** Ensure infrared sensors are clean and properly aligned.

6. Troubleshooting

If you encounter issues with your gate opener, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Gate does not respond to remote.	Remote not paired; low remote battery; power outage.	Re-pair remote; replace battery; check power supply.
Gate stops unexpectedly.	Obstacle detected by infrared sensors; limit switch issue.	Clear obstruction; check sensor alignment; verify limit switch positions.
Gate opens/closes partially.	Limit switches incorrectly set.	Adjust high and low magnetic limit switches.
Motor makes noise but gate doesn't move.	Manual release engaged; obstruction in gate track.	Disengage manual release; clear gate track.

7. Specifications

Detailed technical specifications for the CO-Z 550W Sliding Gate Motor:

Feature	Specification
Manufacturer	CO-Z
Dimensions (L x W x H)	27.1 x 22.8 x 28 cm
Model Reference	SGO
Color	Grey
Style	1500KG
Wattage	550 Watts
Weight	19.8 Kilograms
Max. Gate Weight	1500 kg
Max. Gate Length	12.2 m
Remote Control Range	30 m
Max. Remotes Supported	40

Feature	Specification
Waterproof Rating	IP44
Rack Material	Nylon



SPÉCIFICATIONS	
Puissance d'entrée	Puissance nominale
220-240V 50Hz	550W
Couple	Max. Largeur du portail
32 N·m	12.2 m
Max. Poids du portail	Plage de vitesse du portail
1500 kg	11-13 m/min.
Portée de télécommande	Imperméabilité
30 m	IP44
Max. Télécommandes	Max. Bruit
40	56 dB
Plage de température	Matériel de la crémaillère
-20°C to 70°C	Nylon

Figure 7.1: Technical specifications of the CO-Z Sliding Gate Motor.

8. Warranty & Support

For warranty information and customer support, please refer to your purchase documentation or contact the seller directly. Keep your proof of purchase for any warranty claims.

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