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CO-Z 280W 600 KG Sliding Gate Motor

CO-Z 280W 600 KG Sliding Gate Motor Instruction Manual

Model: 280W 600 KG Sliding Gate Motor | Brand: CO-Z

1. Important Safety Information

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

- Installation must be performed by qualified personnel in accordance with local electrical and safety codes.
- Ensure the gate is in good mechanical condition and moves freely before installing the opener.
- Do not allow children to play with or operate the gate opener or its remote controls.
- Keep hands and clothing clear of the gate and moving parts during operation.
- Disconnect power before performing any maintenance or repairs.
- Install safety devices such as photocells (IR sensors) to prevent the gate from closing on obstructions.
- The manual release key should be accessible for emergency situations.

2. Package Contents

Verify that all components listed below are present in your package:



Figure 2.1: Overview of all included components.

Item	Quantity
Sliding Gate Motor	1
Steel Racks (4m total)	8 (0.5m each)
Remote Controls (WSR1 Model)	2
Infrared Sensors (Photocells)	2
Manual Release Keys	2
Mounting Plate	1
Limit Switch Accessory Box	1
M8 Mounting Bolts	4
M6x18 Mounting Screws	4
M8 Spring Washers	4
M8 Nuts	8
M8 Flat Washers	8
User Manual (English/German)	1

3. Product Overview and Features

The CO-Z 280W 600 KG Sliding Gate Motor is designed for automating sliding gates up to 12 meters in length and 600 kg in weight. It features a robust design and intelligent control for reliable operation.



Figure 3.1: CO-Z Sliding Gate Motor.



Figure 3.2: Internal components of the motor.

Key Features:

- **Powerful 280W DC Motor:** Operates smoothly at 12.2 meters per minute with less than 56 dB noise.
- **Wide Application Range:** Suitable for private and industrial sliding gates up to 12m and 600kg.
- **Durable Construction:** Features an aluminum base and copper worm gear for enhanced longevity.
- **Advanced Security:** RF Hopping Code technology prevents unauthorized remote access.
- **Automatic Closing Function:** Configurable auto-close times (15, 30, 45, or 60 seconds after opening).
- **Weather Resistant:** IP44 rating ensures durability in various climates, from -20°C to 70°C.
- **Safety Sensors:** Includes infrared sensors for automatic stop upon obstruction detection.
- **Manual Override:** Equipped with manual release keys for operation during power outages.
- **Directional Flexibility:** Supports optional left or right opening directions.

4. Specifications



Figure 4.1: Technical Specifications.

Specification	Value
Input Power	220V 50Hz
Rated Power	280W
Max Gate Weight	600 kg
Max Gate Length	12 m
Gate Movement Speed	13 m/min
Torque	16 N·m
Remote Control Range	30 m
Max Number of Remotes	20
Noise Level	< 56 dB
Weather Resistance Rating	IP44
Operating Temperature Range	-20°C to 70°C
Rack Material	Steel
Product Dimensions (Motor)	Approx. 25 x 22.5 x 26 cm (L x W x H)
Product Weight	17.3 kg

5. Setup and Installation

Proper installation is crucial for the safe and efficient operation of your sliding gate motor. Refer to the detailed diagrams and instructions provided in the included user manual for specific steps.

5.1 Pre-Installation Checklist:

1. Ensure the gate slides smoothly and freely without obstruction.
2. Verify that the gate structure is robust enough to support the motor and withstand operational forces.
3. Confirm availability of a 220V 50Hz power supply at the installation site.
4. Plan the location for the motor, ensuring it is on a stable, level surface and protected from direct impact.

5.2 Mounting the Motor:

Securely mount the motor unit on a concrete base or a sturdy platform next to the gate. Use the provided mounting plate, bolts, and screws. Ensure the motor's pinion gear aligns correctly with the gate's rack.

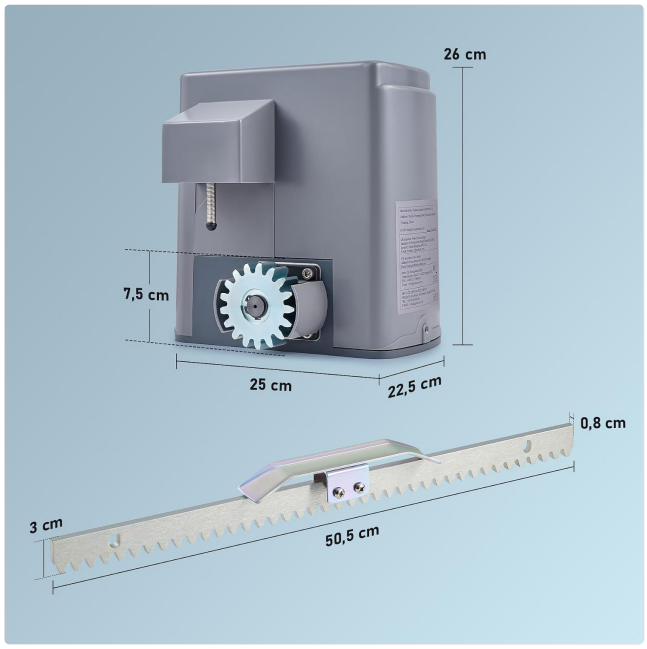


Figure 5.1: Motor and Rack Dimensions for Installation Planning.



Figure 5.2: Assembly Diagram for Mounting Hardware.

5.3 Installing the Racks:

Attach the steel racks along the bottom edge of the gate, ensuring they are level and parallel to the ground. Maintain a small gap (approx. 1-2mm) between the rack teeth and the motor's pinion gear to allow for smooth operation and thermal expansion.

5.4 Electrical Connections:

Connect the motor to the main power supply. Wire the infrared sensors and limit switches according to the wiring diagram in the full manual. Ensure all connections are secure and insulated.

5.5 Programming Remote Controls:

Follow the instructions in the main manual to program the remote controls. The system uses RF Hopping Code technology for enhanced security. Only CO-Z WSR1 model remotes are compatible.

6. Operating Instructions

6.1 Remote Control Operation:

Press the designated button on your remote control to open or close the gate. The gate will move to its fully open or closed position and stop automatically.



Figure 6.1: Remote control operation for convenience.

6.2 Automatic Closing Feature:

The gate can be configured to close automatically after a set period (15, 30, 45, or 60 seconds). Refer to the control board settings in the full manual to enable and adjust this feature.

6.3 Manual Release:

In case of a power failure or malfunction, use the provided manual release key to unlock the motor and operate the gate manually. Insert the key into the lock on the motor unit and turn it to disengage the gear mechanism.



Figure 6.2: Manual unlock keys and other features.

7. Maintenance

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

- **Monthly:** Inspect the gate for smooth movement, ensuring no obstructions or excessive friction. Check the racks for wear or damage.
- **Quarterly:** Clean the motor unit and ensure ventilation openings are clear. Check electrical connections for corrosion or looseness. Test the infrared safety sensors for proper function.
- **Annually:** Lubricate moving parts of the gate (hinges, rollers) if applicable. Inspect the motor's pinion gear and the gate's rack for wear.
- Always disconnect power before performing any maintenance.

8. Troubleshooting

If you encounter issues with your CO-Z sliding gate motor, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Motor does not respond to remote.	No power, remote battery low, remote not programmed, IR sensors blocked.	Check power supply. Replace remote battery. Reprogram remote. Clear IR sensor path.
Gate stops mid-operation or reverses.	Obstruction detected by IR sensors, gate friction, limit switch issue.	Clear obstructions. Check gate for smooth movement. Inspect limit switches.
Gate opens/closes slowly or with difficulty.	Insufficient lubrication, worn gears/racks, gate too heavy/stiff.	Lubricate gate components. Inspect racks and pinion for wear. Ensure gate weight is within limits.
Motor makes unusual noise.	Misalignment of rack/pinion, worn bearings, foreign object.	Check alignment. Inspect for wear. Remove any debris.
Automatic closing not working.	Feature disabled, IR sensors blocked, settings incorrect.	Enable auto-close in settings. Clear IR sensor path. Verify auto-close timer settings.

If the problem persists after attempting these solutions, please contact customer support.

9. Warranty and Support

This product is subject to a return policy allowing for refund or replacement within 14 days of purchase. For specific warranty details and duration, please refer to your purchase documentation or contact the seller directly.

For technical assistance, troubleshooting beyond this manual, or to inquire about replacement parts, please contact CO-Z customer support or the seller, BFTang, through your Amazon purchase portal.

Seller: BFTang

Amazon Store: CO-Z Official Store

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