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SCS Sentinel OpenGate 3 (MCO0108)

SCS SENTINEL OpenGate 3 Sliding Gate Motorization User Manual

Model: OpenGate 3 (MCO0108)

1. Introduction

This user manual provides comprehensive instructions for the installation, operation, and maintenance of your SCS SENTINEL OpenGate 3 sliding gate motorization system. Please read this manual carefully before beginning installation or operation to ensure proper functioning and safety.
The OpenGate 3 system is designed for automating sliding gates up to 5 meters in length and weighing up to 500 kg. It offers a range of features for convenient and secure gate operation.

2. Safety Information

Always prioritize safety during installation, operation, and maintenance. Failure to follow these instructions may result in injury or damage to the product.

- Ensure all electrical connections are made by a qualified professional and comply with local regulations.
- Disconnect power to the motor 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 electronic components yourself. Contact qualified service personnel.
- Ensure photocells are correctly installed and functioning to prevent the gate from closing on obstacles.
- Regularly inspect the gate and motor for signs of wear or damage.

3. Package Contents

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

- 1x Motor with P501 BH PCB1 Electronic Board
- 2x 4-Channel Remote Controls
- 1x LED Flashing Light with Integrated Antenna
- 2x Infrared Photocell Sensors
- 4m of Rack and Pinion Sections

- 1x Installation Template
- Screws and Fasteners
- 1x Manual Unlocking Key
- 1x Motor Mounting Bracket
- Limit Switches
- 1x User Manual (this document)



Figure 3.1: Complete OpenGate 3 Motorization Kit Components. This image displays the main motor unit, sections of the rack, two remote controls, two photocell sensors, and the orange flashing warning light.

4. Setup and Installation

The installation process involves three main steps: mechanical installation, electrical connection, and programming.

4.1 Mechanical Installation

Securely mount the motor unit to a stable concrete base next to the gate, ensuring it is level and aligned with the gate's movement path. Use the provided mounting bracket and fasteners.



Figure 4.1.1: Rear view of the motor unit, highlighting the drive gear that engages with the rack.

Attach the rack sections to the bottom edge of the sliding gate. Ensure the rack is parallel to the ground and at the correct height to engage with the motor's drive gear. Maintain a small clearance (approximately 5mm) between the rack and the motor's gear to allow for smooth operation and prevent binding.

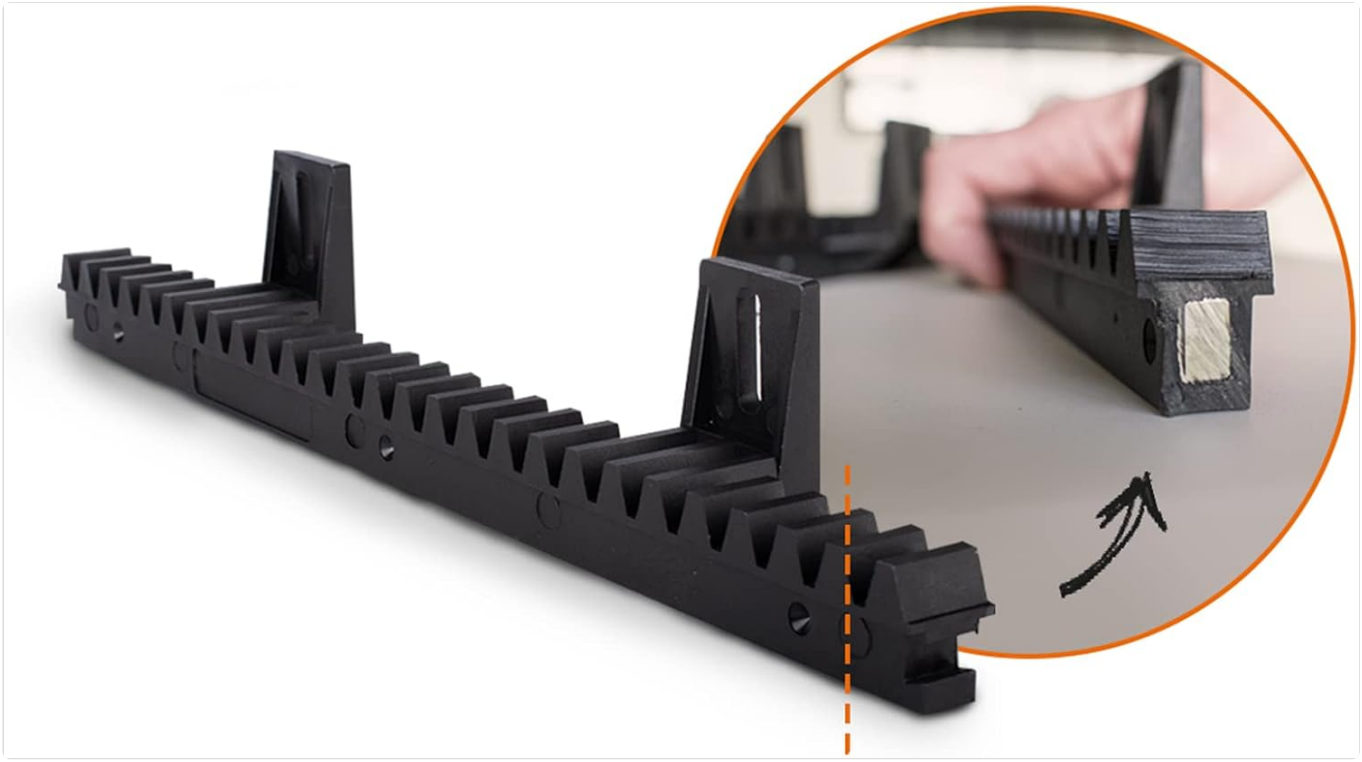


Figure 4.1.2: A single section of the rack, designed to be mounted along the gate.

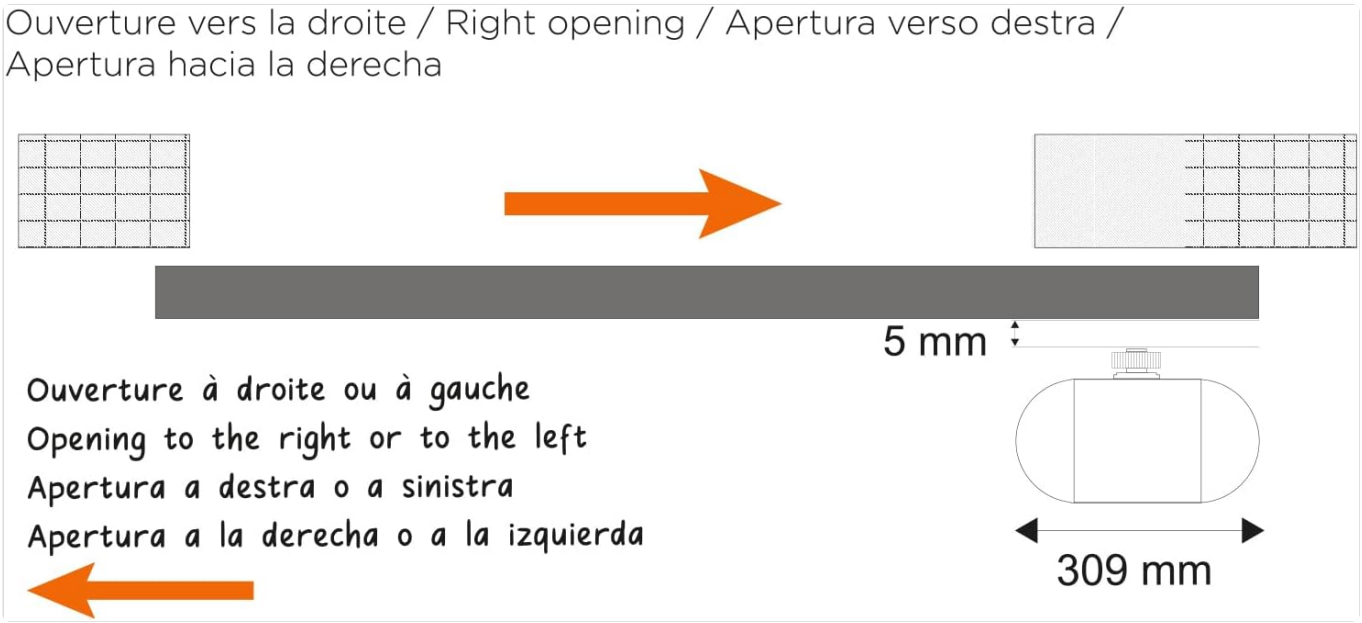


Figure 4.1.3: Diagram showing the recommended 5mm clearance between the rack and the motor's drive gear, and illustrating right/left opening configurations.

4.2 Electrical Connection

Connect the motor to a 24V power supply. Wire the flashing light and photocells to the electronic board (P501 BH PCB1) according to the wiring diagram provided in the full installation manual (not included in this summary). Ensure all connections are secure and insulated.



Figure 4.2.1: The photocell sensors (left) and the flashing warning light (right) which are essential safety components.

5. Operating Instructions

5.1 Programming and Synchronization

After mechanical and electrical installation, the system needs to be programmed. This involves teaching the gate's travel limits and synchronizing the remote controls. Refer to the detailed programming section in the complete manual for step-by-step instructions on setting up features like:

- Total and Partial Opening
- Slowdown at End of Travel
- Obstacle Detection (via photocells)
- Automatic Closing Timer
- Learning Gate Travel

5.2 Remote Control Operation

Once synchronized, the gate can be operated using the provided 4-channel remote controls. Each button can be programmed for different functions (e.g., full open, partial open, stop).


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Figure 5.2.1: The 4-channel remote control used to operate the gate system.

5.3 Manual Unlocking

In case of power failure or malfunction, the gate can be manually unlocked. Insert the provided Allen key into the designated slot on the motor unit and turn it to disengage the motor, allowing the gate to be moved by hand.



Figure 5.3.1: Demonstrating the manual unlocking procedure using the provided Allen key.

6. Maintenance

Regular maintenance ensures the longevity and safe operation of your OpenGate 3 system:

- **Monthly:** Clean the rack and gate wheels to remove debris that could impede movement. Check for any loose fasteners on the motor and gate.
- **Quarterly:** Inspect the photocells for obstructions or misalignment. Test their functionality by passing an object through the beam while the gate is closing.
- **Annually:** Lubricate moving parts of the gate (hinges, wheels) if applicable. Check electrical wiring for any signs of wear or damage.
- **General:** Keep the motor unit clean and free from excessive dust or moisture.

7. Troubleshooting

This section addresses common issues you might encounter. For more complex problems, consult a qualified technician.

Problem	Possible Cause	Solution
Gate does not move.	No power; remote control not synchronized; photocells obstructed.	Check power supply; re-synchronize remote; clear photocell path.
Gate stops unexpectedly.	Obstacle detected by photocells; limit switch issue.	Remove obstruction; check limit switch alignment.
Remote control not working.	Battery low; not synchronized; out of range.	Replace battery; re-synchronize; move closer to receiver.
Gate moves slowly or with difficulty.	Friction in gate mechanism; rack/gear misalignment; motor overload.	Lubricate gate; check rack alignment and clearance; ensure gate weight is within limits.

8. Technical Specifications

Feature	Specification
Model	OpenGate 3 (MCO0108)
Brand	SCS SENTINEL
Motor Voltage	24V
Max Gate Length	5 meters (16.4 ft)
Max Gate Weight	500 kg (1102 lbs)
Mechanism Type	Rack and Pinion
Remote Controls Included	Yes (2x 4-channel)
Photocells Included	Yes
Flashing Light Included	Yes
Product Dimensions (L x W x H)	30.9 x 20.2 x 20.2 cm (12.17 x 7.95 x 7.95 inches)
Product Weight	1 kg (2.2 lbs)

9. Warranty and Support

SCS SENTINEL offers a 5-year availability for spare parts for this product, ensuring long-term support and repairability. For technical support, warranty claims, or to purchase spare parts, please visit the official SCS SENTINEL website or contact their customer service department. Refer to your purchase documentation for specific warranty terms and contact information.

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