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SCS Sentinel MBA0054

SCS Sentinel MBA0054 Articulated Arm Gate Motorization System User Manual

Model: MBA0054 (OneGate 2)
Brand: SCS Sentinel

1. Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your SCS Sentinel MBA0054 Articulated Arm Gate Motorization System. This 12V system is designed to automate swing gates, offering convenience and enhanced security. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. Safety Information

Always prioritize safety during installation and operation. Failure to follow safety guidelines may result in injury or damage to the product or property.

- Ensure all electrical connections are made by a qualified professional and comply with local regulations.
- Disconnect power before performing any maintenance or adjustments.
- Keep children and pets away from the gate area during operation.
- Do not attempt to repair damaged components; contact support for assistance.
- Ensure the gate operates freely without obstruction before motorization.

3. Package Contents

Verify that all components are present in your package:

- 2 x Articulated Arm Gate Motors (OneGate 2)
- 2 x Remote Controls
- 1 x Flashing Light
- 1 x Wireless Keypad (CODEGATE)
- Mounting Hardware and Brackets
- Instruction Manual



Image 1: Overview of the SCS Sentinel MBA0054 system components, including two gate motors, two remote controls, a flashing light, and a wireless keypad.

4. Setup and Installation

The installation process is designed to be straightforward, typically involving three main steps:

1. **Mechanical Installation:** Securely mount the articulated arm motors to your gate and pillars according to the provided diagrams. Ensure correct alignment and free movement of the gate.
2. **Electrical Connection:** Connect the motors and control unit to the 12V power supply. Follow the wiring diagrams carefully.
3. **Programming & Synchronization:** Program the control unit, remote controls, and wireless keypad. This includes setting the gate's travel limits and synchronizing the devices.



Image 2: Visual representation of the three main installation steps: mechanical mounting, electrical connection, and programming/synchronization.

4.1 Wireless Keypad (CODEGATE) Installation

The CODEGATE wireless keypad offers easy, wire-free installation. It is powered by 2 x LR03 AAA 1.5V batteries (not included) and can be surface-mounted.

- Choose a suitable location within 30 meters of the gate control unit.
- Mount the keypad securely using the provided hardware.
- Insert the batteries, ensuring correct polarity.

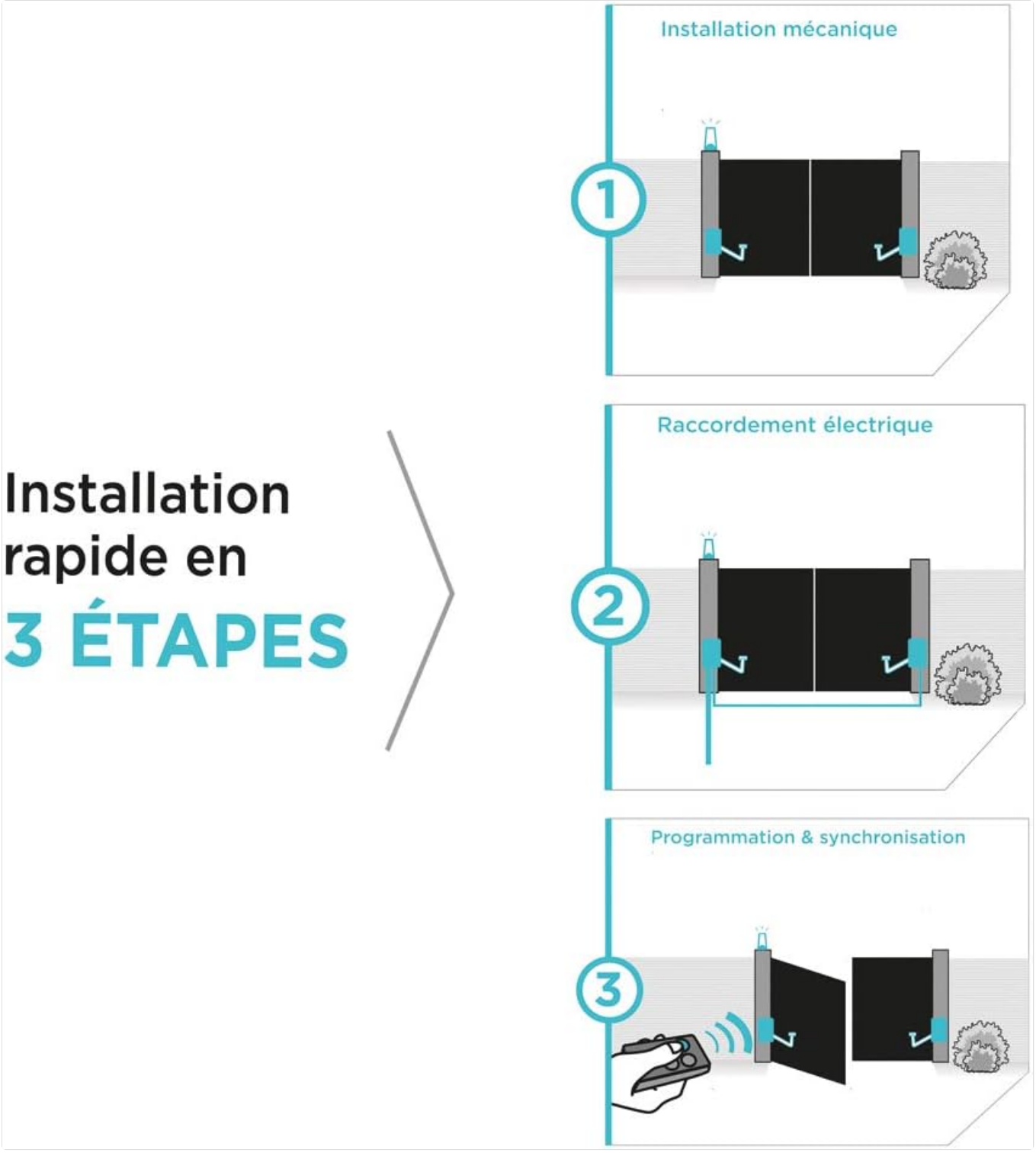

Image 3: Detailed view of the CODEGATE wireless keypad, featuring numerical buttons and 'C' and 'OK' keys for code entry.

5. Operating Instructions

5.1 Using Remote Controls

Press the designated button on your remote control to activate the gate. The remote has a range of up to 30 meters.

5.2 Using the Wireless Keypad (CODEGATE)

To open the gate using the CODEGATE keypad:

1. Enter your personal access code using the sensitive touch keys.
2. Press the 'OK' button to confirm.

The keypad supports both full gate opening for vehicles and partial (pedestrian) opening for individuals on foot, bicycles, or scooters.

5.3 Gate Functions

- **Full Opening:** Both gate leaves open completely.
- **Pedestrian Opening:** One gate leaf opens partially to allow pedestrian access.
- **Automatic Closing:** The gate can be configured to close automatically after a set delay.
- **Slowdown at End of Travel:** The motors reduce speed as the gate approaches its open or closed position for smoother operation.
- **Obstacle Stop:** The gate will stop if an obstruction is detected during operation.

6. Programming

The system features a learning cycle to adapt to your gate's specific dimensions and movement. Refer to the detailed programming section in the full manual for:

- Initial learning of gate travel.
- Pairing additional remote controls.
- Setting or changing the access code for the CODEGATE keypad.
- Adjusting automatic closing times.

7. Maintenance

Regular maintenance ensures the longevity and reliable operation of your gate motorization system.

- **Monthly:** Check for any obstructions in the gate's path. Ensure all mounting hardware is secure.
- **Quarterly:** Clean the motor arms and moving parts. Inspect electrical cables for wear or damage.
- **Annually:** Lubricate moving joints if recommended by the manufacturer. Test all safety features, including obstacle detection.
- Replace keypad batteries (2 x LR03 AAA 1.5V) as needed.

8. Troubleshooting

If you encounter issues, consult the following table for common problems and solutions:

Problem	Possible Cause	Solution
Gate does not open/close	No power, remote battery low, obstruction, motor fault	Check power supply, replace remote batteries, remove obstruction, check manual override.
Gate stops unexpectedly	Obstacle detected, safety sensor issue	Clear path, clean/adjust safety sensors.
Remote/Keypad not working	Batteries low/dead, out of range, not programmed	Replace batteries, move closer to gate, re-program device.

For issues not listed here, or if solutions do not resolve the problem, contact SCS Sentinel support.

9. Specifications

- **Model:** MBA0054 (OneGate 2)
- **Brand:** SCS Sentinel
- **Gate Type:** Swing Gate
- **Max Gate Width:** 4 meters (2 meters per leaf)
- **Max Gate Weight:** 400 kg (200 kg per leaf)
- **Motor Type:** Electric, 12V
- **Material:** Metal
- **Keypad Range:** Up to 30 meters
- **Keypad Power:** 2 x LR03 AAA 1.5V batteries (not included)
- **Features:** Full/Pedestrian opening, slowdown at end of travel, obstacle stop, automatic closing, manual unlock, learning cycle.

10. Warranty and Support

Your SCS Sentinel MBA0054 system is covered by a **2-year warranty** from the date of purchase, covering manufacturing defects. Please retain your proof of purchase.
For technical assistance, troubleshooting, or warranty claims, please contact SCS Sentinel customer support. You can find more information and support resources on the official website:

SCS Sentinel Official Website

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