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SCS Sentinel MBA0055

SCS Sentinel OpenGate 2 Articulated Arm Swing Gate Motorization System

Model: **MBA0055**
Brand: **SCS Sentinel**

1. Introduction

This user manual provides detailed instructions for the installation, operation, and maintenance of your SCS Sentinel OpenGate 2 articulated arm swing gate motorization system, model MBA0055. This system is designed to automate swing gates up to 5 meters in total width and 500 kg in total weight (2.5 meters and 250 kg per leaf).
Please read this manual thoroughly before beginning installation or operation to ensure proper functioning and safety.

2. Safety Information

Always observe the following safety precautions to prevent injury or damage to the system:

- Installation must be performed by qualified personnel in accordance with local electrical and safety regulations.
- Disconnect power to the gate opener before performing any maintenance or repair.
- Keep hands, feet, and clothing clear of the gate and moving parts during operation.
- Do not allow children to play with or operate the gate opener controls.
- Ensure photocells are correctly installed and functioning to detect obstacles.
- Regularly inspect the system for signs of wear, damage, or misalignment.
- In case of power failure, use the manual unlocking key to operate the gate.

3. Package Contents

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

- 2 x Motors (1 Master Motor, 1 Slave Motor)
- 1 x CB 100 / P100 PCB 2 Control Board
- 2 x Articulated Arms

- 2 x 4-Channel Remote Controls
- 1 x Flashing Light with Integrated Antenna
- 2 x Infrared Photocell Sensors
- 1 x Installation Template
- Visserie (Screws and Fasteners)
- Fixing Brackets
- Stops
- 1 x Manual Unlocking Key
- 1 x Installation and User Manual (this document)



Image: Overview of the SCS Sentinel OpenGate 2 motorization kit, showing the two main motors, the flashing warning light, the infrared photocells, and the remote controls.



Image: Detailed view of the flashing light, which provides visual indication of gate movement, and the two infrared photocells, essential for obstacle detection and safety.





Image: A 4-channel remote control, allowing users to operate the gate from a distance. Each button can be programmed for different functions.

4. Setup and Installation

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

4.1 Mechanical Installation

Carefully follow the provided installation template and instructions to mount the motors and articulated arms to your gate and pillars. Ensure the gate is structurally sound and moves freely before motorization. Proper alignment is critical for smooth operation and longevity of the system.

- Determine optimal mounting positions for the motors and articulated arms on the gate and pillars.
- Use the installation template to mark drilling points accurately.

- Securely fasten the motors and brackets using the provided screws and fasteners.
- Attach the articulated arms to the motors and gate leaves, ensuring they can move without obstruction.
- Install the physical stops to define the fully open and fully closed positions of the gate leaves.
- Mount the flashing light in a visible location and the photocells at the appropriate height, ensuring they are aligned.

4.2 Electrical Connection

Connect the motors, control board, flashing light, and photocells according to the wiring diagram provided in the detailed installation manual. All electrical connections must comply with local electrical codes.

- Ensure the main power supply is disconnected before making any electrical connections.
- Connect the 24V power supply to the control board.
- Wire the master and slave motors to the designated terminals on the control board.
- Connect the flashing light and photocells to their respective terminals.
- Verify all connections are secure and properly insulated.

4.3 Programming and Synchronization

Once mechanical and electrical installations are complete, program the control board and synchronize the remote controls.

- Power on the system.
- Follow the control board's instructions for initial setup and learning the gate's travel limits (auto-learning function).
- Program the remote controls by following the pairing procedure outlined in the control board's manual.
- Test all functions, including full opening, partial (pedestrian) opening, automatic closing, and obstacle detection.

5. Operating Instructions

Your OpenGate 2 system offers various operating modes for convenience and security.

5.1 Remote Control Operation

Use the provided 4-channel remote controls to operate the gate:

- Pressing the programmed button once will initiate a full opening or closing cycle.
- Pressing the button again during operation will stop the gate.
- A third press will reverse the gate's direction.

5.2 Opening Modes

- **Full Opening:** Opens both gate leaves completely.
- **Partial (Pedestrian) Opening:** Opens only one gate leaf for pedestrian access. This function needs to be programmed on a separate remote control button.

5.3 Advanced Features

- **Slowdown at End of Travel:** The gate automatically slows down before reaching its fully open or closed position, reducing impact and wear.

- **Obstacle Detection:** The system is equipped with photocells that detect obstacles in the gate's path. If an obstacle is detected during closing, the gate will stop and reverse.
- **Automatic Closing:** The gate can be programmed to close automatically after a set delay.
- **Manual Unlocking:** In case of power outage or malfunction, use the manual unlocking key to disengage the motors and operate the gate manually. Insert the key into the lock on the motor and turn it to release the mechanism.

6. Maintenance

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

- **Monthly:**
  - Check the gate's mechanical condition: ensure hinges are lubricated and the gate moves freely without the motors engaged.
  - Clean the photocell lenses to ensure proper detection.
  - Test the obstacle detection system by placing an object in the gate's path during closing. The gate should stop and reverse.
- **Every 6 Months:**
  - Inspect all electrical connections for corrosion or loose wiring.
  - Check the mounting bolts and brackets for tightness.
  - Verify the flashing light is working correctly.
- **Annually:**
  - Have the system inspected by a qualified technician.

Do not attempt to repair internal components of the motors or control board yourself. Contact technical support for assistance.

7. Troubleshooting

This section addresses common issues you might encounter. For more complex problems, contact technical support.

Problem	Possible Cause	Solution
Gate does not respond to remote control.	No power; remote control battery low; remote not programmed; photocells obstructed.	Check power supply; replace remote battery; re-program remote; clear photocell path.
Gate stops or reverses unexpectedly.	Obstacle detected by photocells; gate mechanism obstructed; motor overload.	Clear photocell path; check for physical obstructions; ensure gate moves freely manually.
Flashing light not working.	Bulb faulty; wiring issue.	Check bulb and wiring connections.

Problem	Possible Cause	Solution
Gate opens partially or not fully.	Travel limits not correctly set; mechanical obstruction.	Re-learn travel limits; check for physical obstructions.

8. Specifications

Feature	Detail
Model Number	MBA0055
Manufacturer	SCS SENTINEL
Motor Type	Articulated Arm, 24V Electric
Max Total Gate Width	5 meters (16.4 feet)
Max Total Gate Weight	500 kg (1102 lbs)
Max Single Leaf Length	2.5 meters (8.2 feet)
Max Single Leaf Weight	250 kg (551 lbs)
Opening Angle	Up to 120°
Opening Time	Approx. 15 seconds
Dimensions (L x W x H)	26.3 x 16 x 29.9 cm (per motor)
Weight	19.58 kg (total kit)
Included Components	2 Motors, Control Board, 2 Articulated Arms, 2 Remote Controls, Flashing Light, 2 Photocell Sensors, Installation Template, Fasteners, Fixing Brackets, Stops, Unlocking Key, Manual.

9. Warranty and Support

SCS Sentinel is committed to providing high-quality, reliable products. Your OpenGate 2 motorization system comes with a warranty and dedicated technical support.

9.1 Warranty Information

This product is covered by a **3-year warranty** from the date of purchase. Please retain your proof of purchase for warranty claims.



Image: Warranty information graphic. Please note that while the image shows "5 ans" (5 years), the product specifications state a "Garantie 3 ans" (3-year warranty). The 3-year warranty from the specifications is the correct information for this model.

The warranty does not cover damage caused by improper installation, misuse, neglect, unauthorized repairs, or acts of nature.

9.2 Technical Support

Our technical assistance team, based in France, is available to help you with installation, programming, and troubleshooting. For personalized advice and support, please refer to the contact information provided on the SCS Sentinel official website or your purchase documentation.

Your satisfaction is our priority. Do not hesitate to contact us for any questions or assistance.

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