SCS Sentinel MBA0088

SCS Sentinel MBA0088 Articulated Arm Gate Motorization System

Model: MBA0088 | Brand: SCS Sentinel

INTRODUCTION

This user manual provides comprehensive instructions for the installation, operation, and maintenance of your SCS Sentinel MBA0088 articulated arm gate motorization system. Designed for swing gates up to 3 meters long and 275 kg per leaf, this system offers convenience and security with its integrated Wi-Fi module for remote control via smartphone and various safety features.

IMPORTANT SAFETY INFORMATION

Please read all safety warnings and instructions carefully before installation and operation to prevent injury or damage. Keep this manual for future reference.

- Ensure all electrical connections are performed 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 or modify the system yourself. Contact technical support for assistance.
- Regularly inspect the gate and motor for signs of wear or damage.

PRODUCT COMPONENTS

The SCS Sentinel MBA0088 system includes the following main components:

- Two articulated arm motors (master and slave)
- Integrated Wi-Fi module
- Two rolling code remote controls
- One LED flashing light with integrated antenna
- Infrared photocells
- Mounting hardware and accessories

Image: Overview of the SCS Sentinel MBA0088 gate motorization system, showing the two black articulated arm motors, two remote controls, a flashing LED light, and infrared photocells.

TECHNICAL SPECIFICATIONS

Feature	Specification
Brand	SCS Sentinel
Model	Motorisation à bras articulé (MBA0088)
Item Weight	17.2 Kilograms
Product Dimensions (L x W x H)	15.4 x 26.28 x 31.13 cm
Voltage	24 Volts
Max Gate Length per Leaf	3 meters
Max Gate Weight per Leaf	275 kg
Max Opening Angle	110°
Connectivity	Integrated Wi-Fi module
Compatibility	All gate materials (wood, aluminum, reinforced PVC, iron)
Power Type	Electric

SETUP AND INSTALLATION

The installation of your SCS Sentinel MBA0088 system is designed to be straightforward, following three main steps:
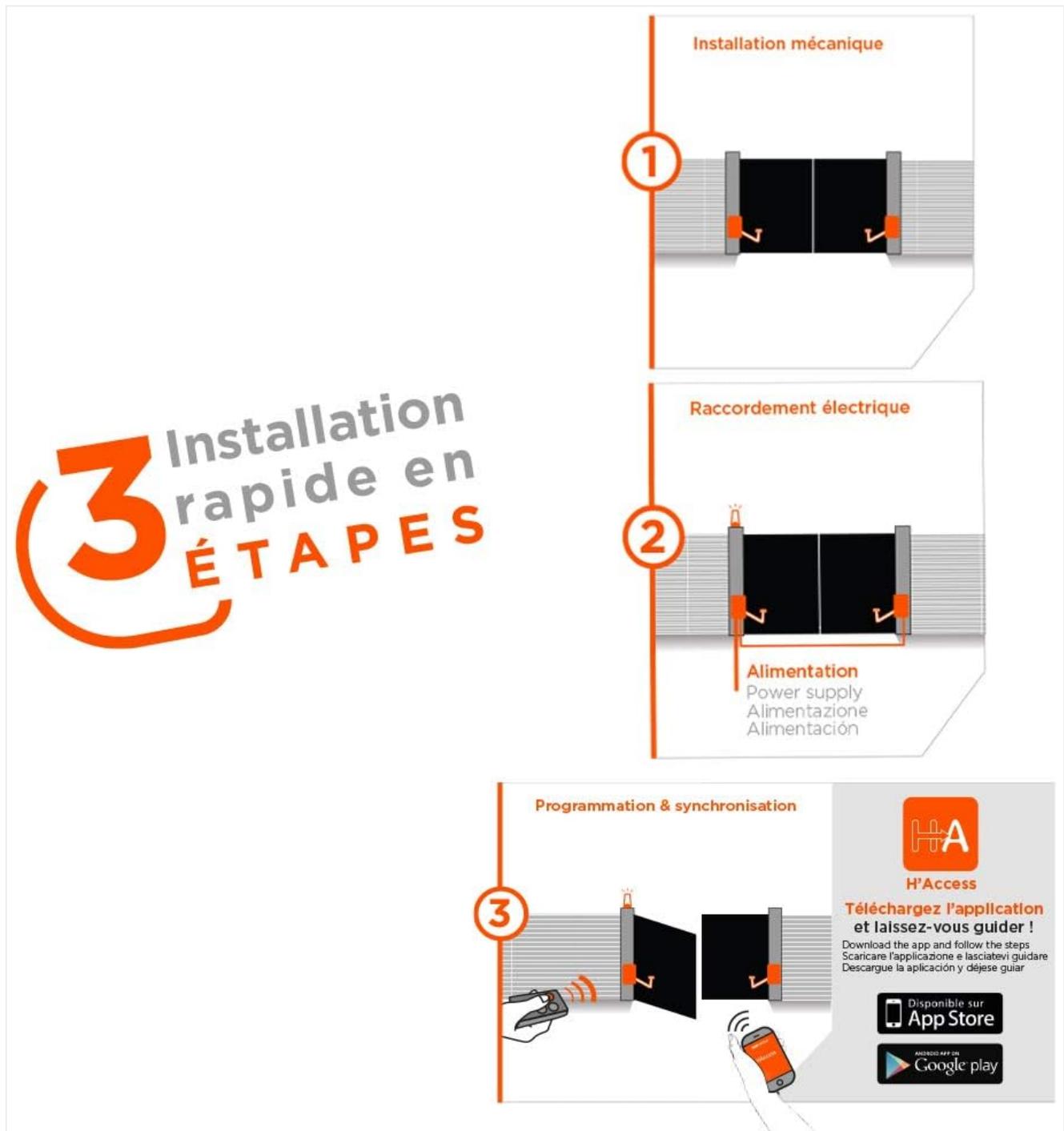

Image: A visual guide illustrating the three rapid installation steps: 1) Mechanical Installation, 2) Electrical Connection, and 3) Programming & Synchronization via the H'Access app.

Step 1: Mechanical Installation

Mount the articulated arm motors securely to your gate posts and gate leaves. Ensure proper alignment and clearance for the gate's movement. The articulated arm design mimics the natural movement of the gate, providing robust operation.

Image: An SCS Sentinel articulated arm motor installed on a wooden swing gate, demonstrating the mechanical setup.

Step 2: Electrical Connection

Connect the motors, flashing light, and photocells to the control unit according to the wiring diagram provided in the detailed installation manual (not included in this summary). Ensure all connections are secure and insulated. The system operates on a safe 24V low voltage supply.

Step 3: Programming and Synchronization

Once mechanical and electrical installations are complete, proceed with programming the system. This involves teaching the gate's travel limits and synchronizing the remote controls. The integrated Wi-Fi module allows for easy setup and control via the H'Access smartphone application.

OPERATING INSTRUCTIONS

Remote Control Operation

Use the provided rolling code remote controls to open and close your gate. Pressing the designated button will initiate the gate's movement. The system supports full opening and partial (pedestrian) opening modes.

Smartphone App Control (H'Access)

Download the H'Access application on your smartphone (available on App Store and Google Play). The integrated Wi-Fi module allows you to control your gate remotely, monitor its status, and receive alerts. The app provides a convenient interface for managing your gate from a distance of up to 30 meters in open field conditions.

Opening Modes and Features

- **Full Opening:** Opens both gate leaves completely.
- **Partial (Pedestrian) Opening:** Opens one gate leaf for pedestrian access.
- **End-of-Travel Slowdown:** The gate slows down before reaching its fully open or closed position for smooth operation.
- **Obstacle Detection:** The system is designed to stop if an obstacle is detected during movement, enhancing safety.
- **Automatic Closing:** Configurable automatic closing after a set time.
- **Manual Release:** In case of power outage, the gate can be manually unlocked for operation.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your gate motorization system.

- **Cleanliness:** Keep the motors and photocells clean and free from debris, dust, and insects.
- **Lubrication:** Periodically check and lubricate the articulated arms' pivot points as recommended in the full product manual.
- **Inspection:** Regularly inspect all mounting points, cables, and connections for signs of wear, corrosion, or damage.
- **Photocell Alignment:** Ensure the infrared photocells are always clean and perfectly aligned for proper obstacle detection.
- **Battery Check (Optional):** If backup batteries are installed, check their charge and condition periodically.

TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Gate does not respond to remote control.	Dead remote battery, remote out of range, system not powered, remote not programmed.	Replace remote battery, move closer to gate, check power supply, re-program remote.
Gate stops or reverses unexpectedly.	Obstacle detected by photocells, gate obstruction, motor overload.	Clear photocell path, remove physical obstructions, check gate for free movement.
Gate opens partially or not fully.	Travel limits not correctly set, mechanical resistance.	Re-program travel limits, check gate hinges and movement for friction.
Flashing light does not work.	Bulb failure, wiring issue, power supply problem.	Check bulb, inspect wiring connections, verify power to light.

WARRANTY AND SUPPORT

SCS Sentinel guarantees the reliability of its innovative technical products. This product comes with a warranty, details of which can be found in the product packaging or by contacting customer service. Our technical assistance team, based in France, is available to provide expert and personalized advice to assist you with product installation and any operational queries. Your satisfaction is our priority.

For technical support, please refer to the contact information provided with your product or visit the official SCS Sentinel website.