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SCS Sentinel 3760074136520, AAM0094

SCS Sentinel 24V Swing Gate Motorization Kit & AAM0094 Remote Control User Manual

Model: 3760074136520 (Motorization Kit), AAM0094 (Remote Control)

1. Product Overview

The SCS Sentinel 24V Swing Gate Motorization Kit (Model 3760074136520) is specifically designed to automate 2-leaf swing gates made of Aluminum, Iron, Wood, or PVC. This kit is suitable for gates up to 3 meters (9.8 ft) wide and 300 kg (661 lbs) total weight (max 1.5 meters (4.9 ft) and 150 kg (330 lbs) per leaf). It provides daily convenience by allowing remote gate operation with a simple click of the included AAM0094 4-channel remote control.
The AAM0094 remote control features a white and orange design, 4 channels, and operates at 433 MHz with rolling code security. It comes with two CR2016 lithium batteries.



Figure 1: SCS Sentinel 24V Swing Gate Motorization Kit and AAM0094 Remote Control.

2. Product Features

- **Motorization Kit (Model 3760074136520):**
  - 24V actuator motorization kit for swing gates up to 3m (9.8 ft) and 300kg (661 lbs).
  - Includes 2 x 4-channel remote controls.
  - Simple to use and install.
  - Silent motorization.
  - 24V ammeter.
  - Outward or inward opening capability.
  - Total and partial (pedestrian) opening.
  - Maximum opening angle of 120° (90° for outward opening).
  - End-of-travel slowdown.
  - Obstacle stop safety feature.
  - Automatic closing (requires photocells).

- Manual release mechanism.
- Travel learning function.
- Force adjustment.
- Simplified commissioning.

- **Remote Control (Model AAM0094):**
  - 4-channel remote control compatible with SCS and Open motorization kits.
  - Frequency: 433 MHz.
  - Stylish and ergonomic design.
  - Keyring attachment included.
  - Security with rolling code technology.
  - Supplied with 2 CR2016 lithium batteries.

3. Setup and Installation

3.1 Motorization Kit Installation

Installation of the SCS Sentinel 24V Swing Gate Motorization Kit should be performed by a qualified professional to ensure safety and proper functionality. Refer to the detailed installation manual provided with the product for specific instructions, diagrams, and safety warnings.

- **Mounting the Actuators:** Securely attach the two actuators to your gate leaves and pillars according to the provided measurements and diagrams. Ensure proper alignment for smooth operation.
- **Wiring:** Connect the actuators, control unit, and any optional accessories (like photocells or flashing lights) to the main power supply (230V) and to each other as per the wiring diagram. Ensure all connections are secure and insulated.
- **Power Connection:** Connect the system to a dedicated 230V power supply.
- **Travel Learning:** After physical installation and wiring, perform the "travel learning" procedure. This allows the system to learn the gate's opening and closing limits, ensuring precise operation and slowdowns.
- **Force Adjustment:** Adjust the motor force as necessary to ensure smooth operation without excessive strain on the gate or motor, and to comply with safety standards for obstacle detection.



Figure 2: SCS Sentinel 24V Swing Gate Motorization Actuators and Control Box.

3.2 Remote Control Pairing (AAM0094)

To pair the AAM0094 remote control with your gate motorization system, follow the instructions specific to your SCS Sentinel control unit. Generally, this involves:

1. Locate the programming button on your gate's control unit (often labeled "PROG" or "LEARN").
2. Press and hold the programming button for a few seconds until an indicator light (LED) on the control unit illuminates or flashes.
3. While the indicator light is active, press the desired button on your AAM0094 remote control that you wish to assign to the gate's full opening function.
4. The indicator light on the control unit should change (e.g., flash rapidly, turn solid, or turn off) to confirm successful pairing.
5. Repeat for other functions (e.g., pedestrian opening) if desired, assigning them to different buttons on the remote.

Important: Refer to your specific control unit's manual for precise pairing instructions, as procedures may vary slightly.



Figure 3: SCS Sentinel AAM0094 4-channel remote control.

4. Operating Instructions

Once installed and paired, operating your SCS Sentinel gate motorization system is straightforward using the AAM0094 remote control.

- **Full Opening/Closing:** Press the assigned button on your remote control to initiate full opening or closing of the gate. A second press during movement will typically stop the gate.
- **Pedestrian Opening (Partial Opening):** If configured, press the assigned button for pedestrian access. This will open only one leaf or a partial opening of both leaves, allowing foot traffic without fully opening the gate.
- **Obstacle Detection:** The system is equipped with an obstacle stop feature. If the gate encounters an obstruction during movement, it will automatically stop or reverse to prevent damage or injury.
- **Automatic Closing:** If photocells are installed and the automatic closing function is enabled, the gate will automatically close after a set delay once the photocell beam is cleared.
- **Manual Release:** In case of power failure or malfunction, use the manual release mechanism (usually a key or lever on the motor unit) to disengage the motor and operate the gate manually.

5. Maintenance

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

- **Cleaning:** Periodically clean the gate, actuators, and photocells (if installed) to remove dirt, dust, and debris that could impede operation.
- **Lubrication:** Check and lubricate moving parts of the gate hinges and actuator rods as recommended in the full product manual. Use appropriate lubricants.
- **Inspection:** Regularly inspect all cables, connections, and mounting points for signs of wear, damage, or corrosion. Tighten any loose fasteners.
- **Safety Features:** Test the obstacle detection system and photocells (if applicable) regularly to ensure they are functioning correctly.
- **Battery Replacement (Remote Control):** The AAM0094 remote control uses 2 CR2016 lithium batteries. Replace them when the remote's range decreases or it stops responding.

6. Troubleshooting

If you encounter issues with your gate motorization system, refer to the following common troubleshooting steps. For complex problems, contact a qualified technician.

Problem	Possible Cause	Solution
Gate does not respond to remote control.	• Remote control batteries are low or dead. • Remote control is out of range. • Remote control is not paired. • Power supply to the motorization unit is off.	• Replace CR2016 batteries in the remote control. • Move closer to the gate. • Re-pair the remote control (refer to Section 3.2). • Check power connection and circuit breaker.
Gate stops unexpectedly or reverses.	• Obstacle detected by safety sensors (photocells). • Mechanical obstruction in the gate's path. • Motor force setting is too low.	• Check photocells for obstructions or misalignment; clean lenses. • Clear any physical obstructions. • Adjust motor force setting (refer to the main installation manual).
Gate opens partially or not fully.	• Travel limits not correctly set. • Mechanical resistance (e.g., stiff hinges).	• Perform the "travel learning" procedure again. • Inspect and lubricate gate hinges; ensure gate moves freely manually.
Gate does not close automatically.	• Photocells are obstructed, misaligned, or faulty. • Automatic closing function is not enabled.	• Check and clean photocells; ensure proper alignment. • Verify automatic closing setting in the control unit (refer to the main manual).

7. Specifications

Feature	Specification
Power Supply Voltage	230 Volts AC
Operating Voltage	24 Volts DC
Max Gate Width (Total)	3 meters (9.8 ft)

Feature	Specification
Max Gate Weight (Total)	300 kg (661 lbs)
Max Width per Leaf	1.5 meters (4.9 ft)
Max Weight per Leaf	150 kg (330 lbs)
Max Cycles per Day	25
Opening Time (90°)	Approx. 15 seconds
Maximum Opening Angle	120°
Operating Temperature	-10°C to +50°C (14°F to 122°F)
Remote Control Frequency	433 MHz
Remote Control Batteries	2 x CR2016 Lithium (supplied)

8. Warranty and Support

Specific warranty information for the SCS Sentinel 24V Swing Gate Motorization Kit and AAM0094 Remote Control is typically provided with the product packaging or available from your point of purchase. Please retain your proof of purchase for warranty claims.

For technical support, installation assistance, or spare parts, please contact SCS Sentinel customer service or visit their official website.

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