

## SCS Sentinel AAM0107

# SCS Sentinel AntenGate Antenna AAM0107 - Motorized Gate Range Extender - 433.92 MHz User Manual

Model: AAM0107 | Brand: SCS Sentinel

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## 1. INTRODUCTION

The SCS Sentinel AntenGate Antenna AAM0107 is designed to enhance the range and reliability of remote controls for motorized gate systems. This antenna operates at a frequency of 433.92 MHz, making it compatible with a wide range of gate automation systems. Its robust, IP66-rated construction ensures durability and reliable performance in various outdoor conditions.

## 2. SAFETY INFORMATION

- Always disconnect power to the gate motor before installation or maintenance.
- Ensure the antenna is mounted securely to prevent it from falling or being dislodged by wind.
- Avoid installing the antenna near high-voltage power lines or other sources of electromagnetic interference.
- Do not attempt to modify the antenna or its components.
- Keep the antenna and its cable away from moving parts of the gate.

## 3. PACKAGE CONTENTS

Verify that all components are present and undamaged before proceeding with installation.

- SCS Sentinel AntenGate Antenna (Model AAM0107)
- 3-meter coaxial cable (integrated)
- Mounting bracket and hardware



*Figure 3.1: The AntenGate antenna with its integrated 3-meter coaxial cable.*



*Figure 3.2: The included metal mounting bracket for securing the antenna.*

## 4. SETUP & INSTALLATION

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Proper installation is crucial for optimal antenna performance. Follow these steps carefully:

1. **Choose a Mounting Location:** Select a high, unobstructed location on or near your gate post. The antenna should have a clear line of sight to where remote controls will typically be used. Avoid mounting it directly on metal surfaces that could interfere with the signal.
2. **Mount the Bracket:** Use the provided mounting bracket and hardware to securely attach the bracket to the chosen surface. Ensure it is stable and can withstand environmental factors.
3. **Attach the Antenna:** Secure the AntenGate antenna to the mounting bracket. The antenna should be oriented vertically for best reception.
4. **Route the Cable:** Carefully route the 3-meter coaxial cable from the antenna to your gate motor's control unit. Ensure the cable is protected from physical damage, pinching, or excessive bending. Use cable ties or clips to secure it along its path.
5. **Connect to the Control Unit:** Connect the coaxial cable's connector to the designated antenna input terminal on your gate motor's control board. Refer to your gate motor's manual for the exact location of this terminal.
6. **Test Functionality:** After installation, restore power to the gate motor and test the range and responsiveness of your remote controls.

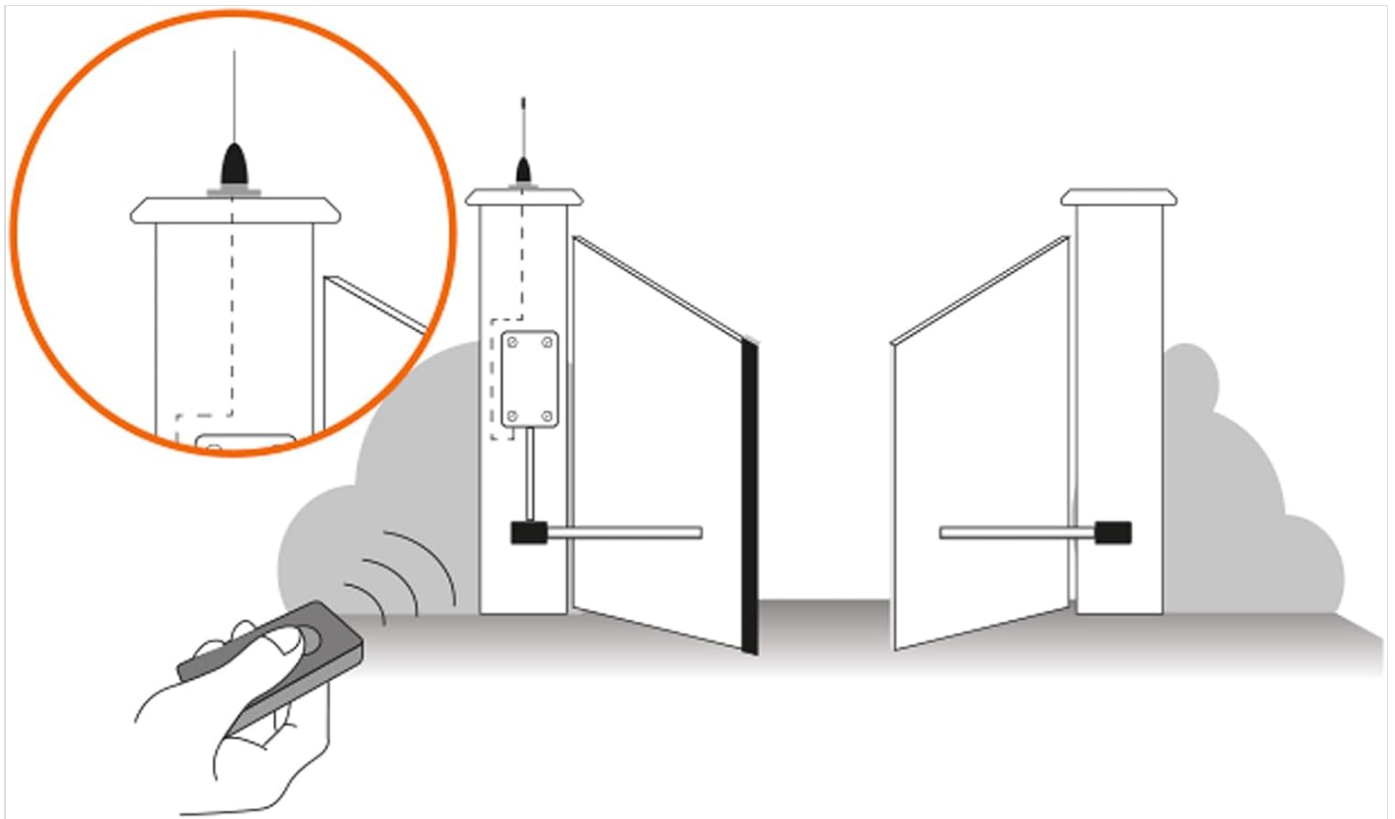


Figure 4.1: Example of antenna placement on a gate post to optimize signal reception.

## 5. OPERATION

The AntenGate antenna operates passively to extend the reception range of your gate motor's remote control signals. Once correctly installed and connected to your gate motor's control unit, it requires no further user interaction. The antenna will continuously work to improve the signal reception for your 433.92 MHz remote controls, allowing for more reliable operation from a greater distance.

To operate your gate, simply use your existing 433.92 MHz remote control as usual. The antenna enhances the signal received by the gate motor, improving the effective range.

## 6. MAINTENANCE

The SCS Sentinel AntenGate Antenna is designed for minimal maintenance due to its durable, IP66-rated construction. However, periodic checks are recommended to ensure continued optimal performance:

- **Visual Inspection:** Annually inspect the antenna and its cable for any signs of physical damage, corrosion, or wear. Check for loose connections.
- **Cleaning:** If the antenna becomes dirty, gently wipe it with a damp cloth. Do not use abrasive cleaners or solvents.
- **Mounting Security:** Periodically check that the antenna and its mounting bracket are still securely fastened and have not become loose due to wind or vibration.
- **Cable Integrity:** Ensure the cable remains protected and free from damage. Repair or replace any damaged sections immediately to prevent signal degradation.

## 7. TROUBLESHOOTING

If you experience issues with your gate remote control range after installing the AntenGate antenna, consider the following troubleshooting steps:

Problem	Possible Cause	Solution
Reduced remote control range or intermittent operation.	<p>Loose or corroded cable connection.</p> <p>Antenna not optimally positioned.</p> <p>Interference from other electronic devices.</p> <p>Damaged antenna cable.</p> <p>Faulty remote control battery.</p>	<p>Check and tighten all cable connections at both the antenna and the control unit. Clean any corrosion.</p> <p>Relocate the antenna to a higher or more open position, away from large metal objects.</p> <p>Identify and move potential sources of interference (e.g., Wi-Fi routers, other wireless devices).</p> <p>Inspect the cable for cuts or damage. Replace if necessary.</p> <p>Replace the battery in your remote control.</p>
Antenna appears to have no effect.	<p>Incorrect connection to the gate motor control unit.</p> <p>Antenna is faulty.</p> <p>Gate motor control unit issue.</p>	<p>Double-check the connection to the gate motor's antenna input. Ensure it is firmly seated.</p> <p>If all other troubleshooting fails, the antenna may be faulty. Contact SCS Sentinel support.</p> <p>Consult your gate motor's manual or contact its manufacturer for issues related to the control unit.</p>

If the problem persists after attempting these solutions, please contact SCS Sentinel customer support for further assistance.

## 8. SPECIFICATIONS

<b>Model Number</b>	AAM0107
<b>Brand</b>	SCS Sentinel
<b>Frequency</b>	433.92 MHz
<b>Cable Length</b>	3 meters
<b>Ingress Protection (IP) Rating</b>	IP66 (Dust tight and protected against powerful water jets)
<b>Color</b>	Black
<b>Antenna Type</b>	Radio

## 9. WARRANTY & SUPPORT

The SCS Sentinel AntenGate Antenna AAM0107 is covered by a **2-year manufacturer's warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical support, or further assistance, please contact SCS Sentinel customer service. Keep your proof of purchase for warranty validation.

**Contact Information:** Please refer to the official SCS Sentinel website or your product packaging for the most up-to-date contact details for your region.



