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SCS Sentinel XO 501

SCS Sentinel AAA0004 Wired Code Keypad User Manual

Model: XO 501

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your SCS Sentinel AAA0004 Wired Code Keypad, Model XO 501. Designed for secure access control, this keypad features a robust galvanized zinc construction, backlit keys for visibility, and the capacity to store up to 100 user codes. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. SAFETY INSTRUCTIONS

- Ensure the power supply is disconnected before performing any installation or maintenance.
- Installation should be performed by a qualified professional if you are unsure about electrical wiring.
- Do not expose the device to excessive moisture or extreme temperatures beyond its IP68 rating.
- Use only the specified 12V DC power supply.
- Keep children away from the keypad during installation and programming.

3. PACKAGE CONTENTS

Verify that all components are present in the package:

- 1 x SCS Sentinel AAA0004 Wired Code Keypad (Model XO 501)
- Mounting hardware (screws, wall plugs)
- User Manual

4. PRODUCT FEATURES

- **Secure and Robust Design:** Constructed from galvanized zinc, offering high resistance to environmental conditions and vandalism attempts.

- **Enhanced Visibility and Accessibility:** Equipped with backlit keys for excellent visibility in low-light conditions. Tactile markers on key '5' assist visually impaired users.
- **Weather Resistance:** IP68 protection rating ensures durability against extreme weather conditions, suitable for outdoor installation.
- **Wide Compatibility:** Compatible with various gate motorizations, electric strikes, locks, and exit buttons from different brands.
- **Extended Capacity:** Capable of storing up to 100 unique user codes for flexible and secure access management.
- **Audible and Visual Indicators:** Features LED and sound alerts for operation feedback.



Figure 1: Angled view of the keypad, highlighting its durable construction and backlit keys.

5. INSTALLATION

5.1 Mounting the Keypad

1. Choose a suitable mounting location, ensuring it is secure and accessible. The keypad is IP68 rated for outdoor use.
2. Mark the drilling points on the wall using the keypad's mounting holes as a template.
3. Drill holes and insert wall plugs if necessary.
4. Secure the keypad to the wall using the provided screws.



Figure 2: Keypad installed on a wall, demonstrating typical application next to a gate.

5.2 Wiring Diagram

The keypad requires a 12V DC power supply. Connect the wires according to the diagram below and your specific access control system (gate motorization, electric strike, etc.).



Figure 3: Rear view of the keypad with wiring connections. Consult your access control system's manual for specific wiring requirements.

General Wiring Guidelines:

- **Red Wire:** +12V DC Power Input
- **Black Wire:** Ground (GND)
- **Other Wires:** Connect to your gate motor, electric strike, or other access control device as per their respective manuals. These typically include common, normally open (NO), and normally closed (NC) contacts for relay output.

6. OPERATION

Once installed and powered, the keypad is ready for use. The keys will be backlit for easy visibility.



Figure 4: Front view of the keypad during operation, showing backlit keys.

6.1 Entering a Code

1. Enter your pre-programmed user code using the numeric keys.
2. Press the '#' key (or designated enter key) to confirm the code.
3. If the code is correct, the access control device (e.g., gate, door) will activate. An audible beep and/or LED indicator will confirm successful entry.
4. If the code is incorrect, an error indication (e.g., different beep, flashing LED) may occur.

7. PROGRAMMING CODES

The keypad can store up to 100 user codes. Refer to the specific programming instructions provided with your keypad for detailed steps on adding, modifying, or deleting user codes. Typically, this involves entering a master programming code followed by a sequence of commands to manage user codes.

Important: Keep your master programming code confidential and store it in a secure location.

8. MAINTENANCE

The SCS Sentinel AAA0004 keypad is designed for minimal maintenance due to its robust galvanized zinc

construction and IP68 rating.

- **Cleaning:** Periodically wipe the keypad surface with a soft, damp cloth to remove dirt and grime. Avoid abrasive cleaners or solvents.
- **Inspection:** Regularly check the wiring connections for any signs of wear or damage. Ensure the keypad is securely mounted.
- **Functionality Test:** Periodically test all programmed codes to ensure proper operation of the access control system.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Keypad does not power on / Backlight off	No power supply or incorrect wiring.	Check 12V DC power connection. Verify wiring according to the diagram.
Code entered, but access device does not activate	Incorrect code entered; wiring issue to access device; access device malfunction.	Ensure correct code is entered. Check wiring between keypad and access device. Test access device independently.
Keys are not responding	Keypad malfunction; debris under keys.	Clean the keypad surface. If problem persists, contact technical support.
Cannot program new codes	Incorrect programming sequence; master code error.	Review programming instructions carefully. Ensure the correct master code is used.

10. TECHNICAL SPECIFICATIONS

Feature	Specification
Model Number	XO 501
Manufacturer	SCS Sentinel
Dimensions (L x W x H)	8.6 x 8.6 x 2.3 cm
Weight	190 grams
Color	Grey
Material	Galvanized Zinc
Power Type	Electric
Voltage	12 Volts (DC)
Display Type	LED
User Capacity	Up to 100 codes
Ingress Protection (IP) Rating	IP68



Figure 5: Side view of the keypad, illustrating its compact dimensions.

11. WARRANTY AND SUPPORT

SCS Sentinel guarantees the reliability of its innovative technical products, designed for easy installation and use, combining comfort and security. Our technical support team, based in France, is available to assist you with the

installation of your product. Our technicians will provide informed and personalized advice to ensure your satisfaction.

For technical assistance or warranty claims, please refer to the contact information provided with your purchase documentation or visit the official SCS Sentinel website.