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Securitron M68D

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INSTRUCTION MANUAL

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of the Securitron M68D Magnalock. The M68D is a high-security electromagnetic lock designed to provide 1200 lbs of holding force, featuring automatic dual voltage operation and a unique bracket mount design for secure installation. It is intended for use on interior and perimeter doors where robust security is required.

2. Safety Information

- **Professional Installation Recommended:** Installation of this device should be performed by qualified security professionals to ensure proper function and compliance with local codes.
- **Electrical Safety:** Disconnect all power to the installation area before beginning any wiring or installation procedures. Ensure correct voltage (12/24 V DC) is supplied.
- **Secure Mounting:** The Magnalock must be securely mounted to prevent unauthorized removal or tampering. Use only the specified hardware.
- **Emergency Egress:** Ensure that the installation complies with all local fire and life safety codes regarding emergency egress. The patented instant release circuit ensures no residual magnetism upon power loss, facilitating safe exit.

3. Product Overview

The Securitron M68D Magnalock is an advanced electromagnetic locking device. Key features include:

- **Holding Force:** Provides 1200 lbs (544 kg) of holding force.
- **Automatic Dual Voltage:** Automatically adjusts to 12 V DC or 24 V DC input, eliminating the need for manual field adjustments.

- **Instant Release Circuit:** Patented technology ensures immediate release with no residual magnetism, enhancing safety and reliability.
- **Wire Access Chamber:** Features a built-in internal wire access chamber for clean and secure wiring.
- **Mounting:** Designed for easy surface mounting with a bracket, utilizing steel machine screws into blind finishing nuts for a robust installation.
- **Finish:** Brushed aluminum finish for durability and aesthetic appeal.
- **Corrosion Resistance:** All ferrous metal surfaces are plated to MIL specification for enhanced corrosion resistance.
- **Certifications:** UL Listed for safety and performance.
- **Optional Features:** Available with options such as a door position switch, LED indicator, and anti-tamper switch.

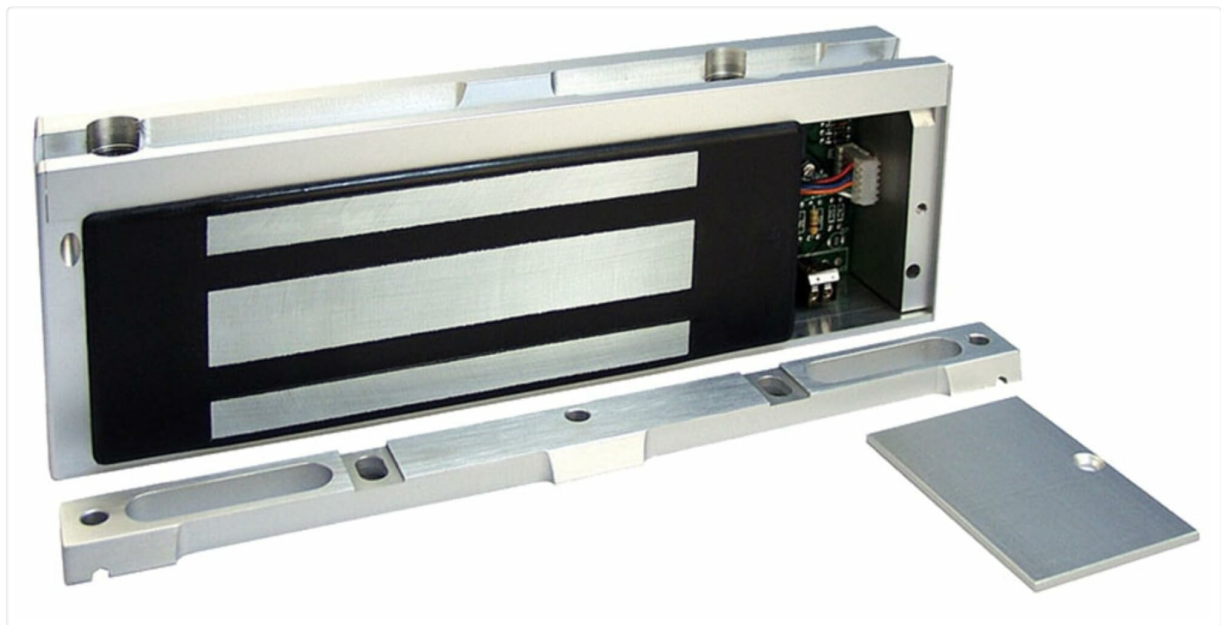


Image of the Securitron M68D Magnalock, showcasing its brushed aluminum finish and compact design.

4. Installation (Setup)

The M68D Magnalock is designed for surface mounting. Follow these general guidelines for installation:

1. **Site Preparation:** Identify the optimal mounting location on the door frame and door, ensuring proper alignment for the magnet and armature plate.
2. **Mounting Bracket:** Secure the mounting bracket to the door frame using the provided steel machine screws into blind finishing nuts. Ensure the bracket is level and firmly attached.
3. **Wiring:** Route power wiring through the internal wire access chamber. Connect the 12/24 V DC power supply to the Magnalock terminals. Observe correct polarity. The automatic dual voltage feature will detect the input voltage.
4. **Magnalock Attachment:** Attach the Magnalock body to the mounting bracket.
5. **Armature Plate Installation:** Install the armature plate on the door, ensuring it aligns perfectly with the Magnalock when the door is closed. The armature plate should be able to pivot slightly to compensate for minor door misalignment.
6. **Testing:** After installation, apply power and test the Magnalock's operation. Verify that the lock engages securely when power is applied and releases instantly when power is removed.

Refer to the detailed installation diagrams and instructions provided in the full manufacturer's guide for

specific steps and considerations for various door types and configurations.

5. Operation

The Securitron M68D Magnalock operates as a fail-safe device, meaning it locks when power is applied and unlocks when power is removed. This is a critical safety feature for emergency egress.

- **Locking:** When 12 V DC or 24 V DC power is supplied to the Magnalock, an electromagnetic field is generated, attracting and holding the armature plate on the door with 1200 lbs of force.
- **Unlocking:** When power to the Magnalock is interrupted (e.g., via an access control system, exit device, or power failure), the electromagnetic field collapses instantly due to the patented release circuit, allowing the door to be opened freely.
- **Door Position Switch (Optional):** If equipped, the door position switch provides feedback to an access control system regarding the open or closed status of the door.
- **LED Indicator (Optional):** If equipped, an LED indicator provides visual status of the lock (e.g., locked/unlocked).

6. Maintenance

The Securitron M68D Magnalock is designed for minimal maintenance. Regular inspections can help ensure continued reliable operation:

- **Cleaning:** Keep the face of the Magnalock and the armature plate clean and free of dirt, debris, or rust. Use a soft, dry cloth. Do not use abrasive cleaners.
- **Hardware Check:** Periodically check all mounting screws and fasteners for tightness. Loose hardware can compromise holding force and security.
- **Wiring Inspection:** Inspect wiring connections for any signs of wear, corrosion, or damage. Ensure all connections are secure.
- **Functionality Test:** Regularly test the lock's operation to ensure it engages and releases correctly.

7. Troubleshooting

If the Securitron M68D Magnalock is not functioning as expected, consider the following:

Symptom	Possible Cause	Solution
No holding force / Lock does not engage	No power, incorrect voltage, loose wiring, faulty power supply.	Check power supply output. Verify wiring connections and polarity. Ensure correct 12/24 V DC input.
Reduced holding force	Gap between magnet and armature plate, dirty surfaces, loose mounting hardware.	Ensure armature plate is aligned and makes full contact. Clean magnet and armature surfaces. Tighten all mounting screws.
Lock does not release	Constant power supply, faulty release mechanism (e.g., exit button).	Verify that power is being cut to the lock when release is initiated. Check the functionality of any connected exit devices or access control components.
Excessive noise during operation	Misalignment of armature plate, loose mounting.	Adjust armature plate for proper alignment. Tighten mounting hardware.

If issues persist after troubleshooting, contact Securitron technical support or a qualified security professional.

8. Specifications

Feature	Specification
Model Number	M68D
Holding Force	1200 lbs (544 kg)
Voltage	12/24 V DC (Automatic Dual Voltage)
Current Draw (12V DC)	<i>(Specific current draw not provided in source, refer to manufacturer's datasheet)</i>
Current Draw (24V DC)	<i>(Specific current draw not provided in source, refer to manufacturer's datasheet)</i>
Dimensions (Package)	13.78 x 6.18 x 3.15 inches
Item Weight	15.5 ounces
Finish	Brushed Aluminum
Operating Temperature	<i>(Not provided in source, refer to manufacturer's datasheet)</i>
Certifications	UL Listed
Manufacturer	Securitron

9. Warranty

Securitron products typically come with a manufacturer's warranty. For detailed information regarding the warranty period, terms, and conditions for the M68D Magnalock, please refer to the official warranty statement provided by Securitron or visit their official website. Keep your proof of purchase for warranty

claims.

10. Support

For technical assistance, product inquiries, or support, please contact Securitron directly:

- **Manufacturer:** Securitron
- **Website:** www.securitron.com (Please verify the current official website)
- **Contact Information:** Refer to the 'Contact Us' section on the official Securitron website for phone numbers, email, and support hours.

When contacting support, please have your product model (M68D) and any relevant purchase information readily available.