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SDC 1091AIV

SDC 1091AIV SpaceSaver Electric Bolt Lock

Instruction Manual

Model: 1091AIV

1. PRODUCT OVERVIEW

The SDC 1091AIV SpaceSaver Electric Bolt Lock is an advanced locking solution designed for access control applications. Its unique design allows the stainless steel bolt to project at right angles to the lock mechanism, facilitating installation in standard 1.75-inch frames or most door lock stiles with a simple cutout. This concealed installation enhances both aesthetics and security.

Key Features:

- Adjustable auto relock switch
- Fits 1-3/4-inches minimum face frames
- Failsafe - 12/24VDC standard operation
- Failsecure - choice of 12 or 24VDC operation
- Aluminum finish standard



Image 1: The SDC 1091AIV SpaceSaver Electric Bolt Lock, showcasing its narrow profile and bolt mechanism, alongside its strike plate.

2. SAFETY INFORMATION

Please read and understand all instructions before installation and operation. Failure to follow these instructions may result in product damage, property damage, or personal injury.

- **Professional Installation:** Installation of this electric bolt lock should be performed by qualified personnel familiar with electrical systems and door hardware.
- **Electrical Safety:** Ensure power is disconnected before performing any wiring or maintenance. Verify correct voltage (12VDC or 24VDC) is supplied to prevent damage to the unit.
- **Voltage Compatibility:** This unit operates on 12VDC or 24VDC. Connecting to an incorrect voltage source will damage the lock.
- **UL Listing:** This product is UL listed and UL 10C positive pressure compliant. Adhere to all local building codes and regulations during installation.

3. SETUP AND INSTALLATION

3.1 Pre-Installation Checklist

- Verify door frame material and dimensions. A minimum 1-3/4 inch frame is required.
- Ensure appropriate power supply (12VDC or 24VDC) is available.
- Gather necessary tools: measuring tape, drill, appropriate drill bits, screwdriver set, wiring tools.

3.2 Mounting the Lock

1. Carefully measure and mark the desired location for the lock body and strike plate on the door frame and door edge, respectively.
2. Create the necessary cutout in the door frame for the lock body. The SpaceSaver design allows for a simple cutout.
3. Secure the lock body into the cutout using the provided fasteners. Ensure it is flush with the frame surface for proper operation and aesthetics.
4. Install the strike plate on the door edge, aligning it precisely with the bolt mechanism of the lock.

3.3 Wiring

The SDC 1091AIV supports both Failsafe and Failsecure configurations. Determine the required operation before wiring.

- **Failsafe Operation:** The lock will unlock when power is removed. This is typically used for egress doors where safety requires the door to open during a power failure. Connect the power supply according to the Failsafe wiring diagram provided with the product packaging.
- **Failsecure Operation:** The lock will remain locked when power is removed. This is typically used for security applications where the door must remain secured during a power failure. Connect the power supply according to the Failsecure wiring diagram provided with the product packaging.
- Ensure all electrical connections are secure and insulated to prevent short circuits.

3.4 Adjustments

The lock features an adjustable auto relock switch. Refer to the detailed instructions in the product packaging for specific adjustment procedures to fine-tune the relock timing.

4. OPERATING INSTRUCTIONS

The SDC 1091AIV Electric Bolt Lock operates in conjunction with an access control system or a simple switch, depending on the installation configuration.

- **To Unlock (Failsafe):** Apply power to the lock. The bolt will retract, allowing the door to open. Removing power will cause the bolt to extend, locking the door.
- **To Unlock (Failsecure):** Remove power from the lock. The bolt will retract, allowing the door to open. Applying power will cause the bolt to extend, locking the door.
- The adjustable auto relock switch will automatically extend the bolt after a set delay once the door is closed and aligned with the strike plate.

5. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your SDC 1091AIV Electric Bolt Lock.

- **Inspection:** Periodically inspect the lock body, bolt, and strike plate for any signs of wear, damage, or misalignment. Ensure all fasteners are tight.
- **Cleaning:** Clean the exterior surfaces with a soft, dry cloth. Avoid using abrasive cleaners, solvents, or harsh chemicals, as these can damage the finish.
- **Lubrication:** If the bolt mechanism appears stiff or noisy, a small amount of silicone-based lubricant can be applied to the moving parts. Do not over-lubricate.
- **Wiring Check:** Annually, inspect wiring connections for any signs of corrosion or loose terminals.

6. TROUBLESHOOTING

If you encounter issues with your SDC 1091AIV Electric Bolt Lock, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Lock not engaging/disengaging	No power, incorrect wiring, bolt obstruction, misalignment.	Check power supply, verify wiring against diagram, ensure no physical obstructions, adjust lock/strike plate alignment.
Intermittent operation	Loose wiring connections, fluctuating power supply, worn components.	Secure all wiring connections, test power supply stability, inspect for wear.
Excessive noise during operation	Lack of lubrication, mechanical interference, worn parts.	Apply a small amount of silicone lubricant to moving parts, check for obstructions, consider professional inspection if noise persists.
Auto relock not functioning	Incorrect adjustment, sensor issue, door not closing properly.	Adjust the auto relock switch settings, ensure the door closes fully and aligns with the strike plate.

If troubleshooting steps do not resolve the issue, contact SDC technical support or a qualified technician.

7. SPECIFICATIONS

Feature	Detail
Brand	SDC

Feature	Detail
Model Name	SpaceSaver
Part Number	1091AIV
Lock Type	Electric Mortise Lock
Material	Aluminum
Color	Stainless Steel
Power Source	DC (12VDC / 24VDC)
Special Feature	Key Lock
Item Weight	1.45 pounds
Package Dimensions	10.8 x 3.4 x 2.4 inches
Minimum Frame Fit	1-3/4 inches
Control Method	App (as per product specifications, verify compatibility with specific access control systems)
Certifications	UL Listed, UL 10C Positive Pressure Compliant

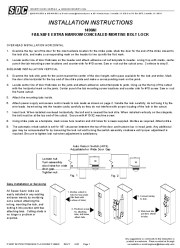
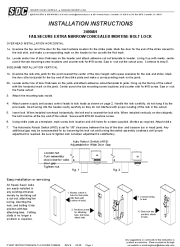
8. WARRANTY AND SUPPORT

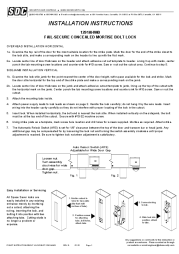
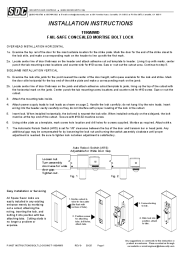
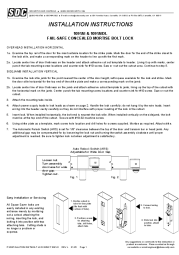
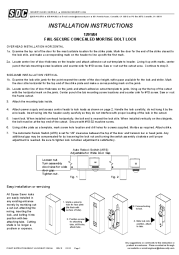
For specific warranty information regarding your SDC 1091AIV SpaceSaver Electric Bolt Lock, please refer to the documentation included with your purchase or contact the seller or manufacturer directly.

For technical assistance, installation support, or to report any issues, please contact SDC customer service through their official website or the contact information provided at the point of purchase.

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Related Documents - 1091AIV

	<p>SDC 1490AI Failsafe Extra Narrow Concealed Mortise Bolt Lock Installation Guide</p> <p>Detailed installation instructions for the SDC 1490AI Failsafe Extra Narrow Concealed Mortise Bolt Lock, including wiring diagrams, technical specifications, and troubleshooting tips.</p>
	<p>SDC 2490AH Failsecure Extra Narrow Concealed Mortise Bolt Lock Installation Instructions</p> <p>Comprehensive installation guide for the SDC 2490AH concealed mortise bolt lock, covering overhead and sidejamb mounting, wiring configurations with and without the PR-1000 power regulator, troubleshooting, and dimensional references.</p>

	<p>SDC 1291AHWD Fail-Secure Concealed Mortise Bolt Lock Installation Instructions</p> <p>This document provides detailed installation instructions for the SDC 1291AHWD Fail-Secure Concealed Mortise Bolt Lock, including horizontal and vertical mounting procedures, wiring diagrams, electrical specifications, and troubleshooting guidance. It also covers the use of the PR-1000 Power Regulator and ARS switch.</p>
	<p>SDC 1190AIWD Fail-Safe Concealed Mortise Bolt Lock Installation Guide</p> <p>Comprehensive installation instructions for the SDC 1190AIWD Fail-Safe Concealed Mortise Bolt Lock, including wiring diagrams, technical specifications, and troubleshooting tips.</p>
	<p>SDC 1091AI/1091AIDL Fail-Safe Concealed Mortise Bolt Lock Installation Instructions</p> <p>Comprehensive installation guide for the SDC 1091AI and 1091AIDL fail-safe concealed mortise bolt locks. Includes step-by-step instructions for overhead and sidejamb mounting, wiring diagrams, troubleshooting, and technical specifications.</p>
	<p>SDC 1291AH Fail-Secure Concealed Mortise Bolt Lock Installation Instructions</p> <p>Comprehensive installation guide for the SDC 1291AH Fail-Secure Concealed Mortise Bolt Lock. Covers overhead and sidejamb installation, wiring configurations with and without the PR-1000 Power Regulator, troubleshooting tips, and detailed technical specifications for metal doors and frames.</p>