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UHPPOTE UT0511-621

UHPPOTE Electric Strike Lock UT0511-621 User Manual

Comprehensive instructions for installation, operation, and maintenance.

Contents Introduction Safety Information Package Setup Operation Maintenance Troubleshooting Specifications Warranty & Support

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the UHPPOTE Electric Strike Lock, model UT0511-621. This electric strike is designed for access control systems, specifically for fire exit doors equipped with rim exit devices and push bars. It offers field-selectable fail-safe or fail-secure operation and is suitable for indoor use.
Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. Safety Information

Adhere to the following safety guidelines during installation and operation:

- Ensure power is disconnected before performing any installation or maintenance.
- Installation should be performed by qualified personnel familiar with electrical systems and door hardware.
- This device operates on 12VDC. Verify power supply compatibility before connecting.
- Do not attempt to modify the internal components of the electric strike.
- This product is designed for indoor use only. Exposure to outdoor elements may cause damage and void warranty.
- Ensure all wiring connections are secure and insulated to prevent short circuits.

3. Package Contents

Verify that all items are present in the package:

- 1 x UHPPOTE Electric Strike Lock (Model UT0511-621)
- 1 x Installation Kit (screws, etc.)
- 1 x User Manual (this document)

Note: A push panic bar is not included and must be purchased separately. Refer to ASIN: B06XWY91HQ for compatible options.

4. Setup and Installation

The UHPPOTE Electric Strike Lock is designed for rim exit devices with 3/4" (19.1 mm) Pullman latchbolts. Proper installation is crucial for optimal performance and security.

4.1. Pre-Installation Check

- Confirm the door frame material is suitable for cutting and mounting.
- Ensure the door and frame are plumb and square.
- Gather necessary tools: measuring tape, pencil, drill, saw (for frame modification), screwdriver.

4.2. Marking and Cutting the Door Frame

Carefully mark the drilling and cutting positions on the door frame according to the dimensions provided in the diagram. The strike opening dimensions are approximately 1-37/64" x 1-5/32" x 15/16" deep (39.9 x 29.5 x 24mm deep).

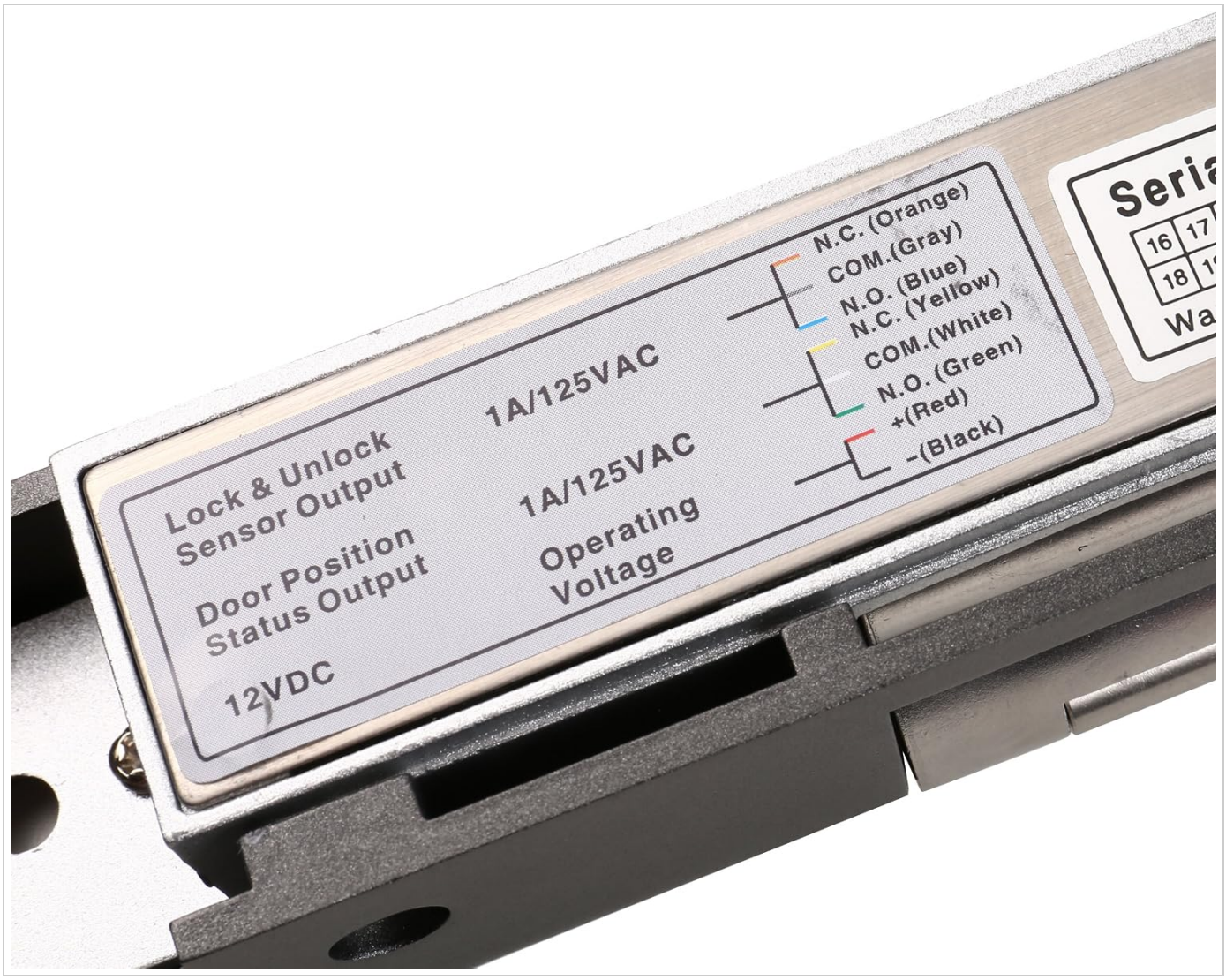


Image: Detailed diagram showing the installation process, overall dimensions, and signal output wiring. This image illustrates how to mark and cut the door frame for the electric strike, as well as the wiring connections and adjustment for fail-safe/fail-secure modes.

Cut a hole for the lock body on the marked position. Drill pilot holes for the mounting screws.

4.3. Mounting the Electric Strike

Insert the electric strike into the prepared opening in the door frame. Align the mounting holes and fasten the strike securely using the provided screws. Ensure the strike is flush with the door frame surface.



Image: The UHPPOTE Electric Strike Lock shown installed within a door frame, ready to receive a push bar latch. This image demonstrates the flush mounting of the strike.



Image: An illustration showing the electric strike lock interacting with a push bar mechanism on a door. This visual aids in understanding the product's function with a compatible exit device.

4.4. Wiring Connections

The electric strike operates on 12VDC. Connect the power supply and control wires according to the wiring diagram. The device includes signal output for lock status (NO/NC/COM) and door position status output.



Image: A close-up view of the wiring connections and labels on the electric strike lock. This image details the color-coded wires for power, lock status, and door position output.

- **Red Wire:** +12VDC
- **Black Wire:** - (Ground)
- **Orange (N.C.), Gray (COM), Blue (N.O.):** Lock & Unlock Sensor Output (1A/125VAC)
- **White (N.C.), Yellow (COM), Green (N.O.):** Door Position Status Output (1A/125VAC)

Ensure all connections are correct and insulated. Incorrect wiring can damage the device or pose a safety hazard.

4.5. Fail-Safe / Fail-Secure Adjustment

The electric strike can be configured for either fail-safe or fail-secure operation. This setting determines the lock's behavior during a power failure.

- **Fail-Safe (NO - Normally Open):** The door will unlock when power is removed. This is typically used for emergency exits.
- **Fail-Secure (NC - Normally Closed):** The door will remain locked when power is removed. This is typically used for security applications.

To adjust the mode:

1. Unscrew the small screw on the side of the strike mechanism.
2. Slide the loosened screw to the desired position (NO for fail-safe, NC for fail-secure).
3. Re-insert and tighten the screw in the new hole.

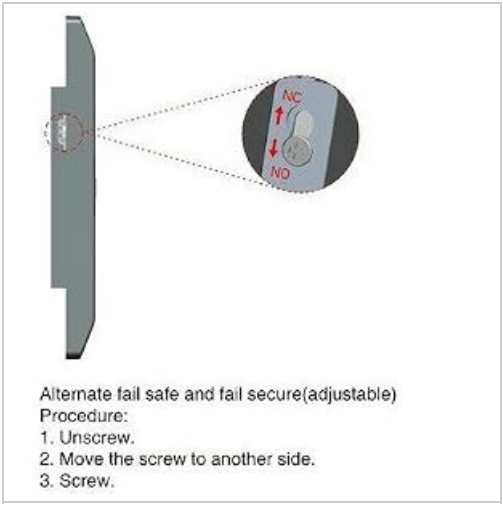


Image: A close-up diagram illustrating the screw adjustment for switching between fail-safe (NO) and fail-secure (NC) modes on the electric strike. This shows the physical mechanism for configuration.

Video: Installation of Electric Strike for Panic Push Bar (Double Doors)

[redacted]

Video Description: This video demonstrates the installation process of the electric strike lock, specifically for use with a panic push bar on double doors. It covers marking, cutting, mounting, and the final integration with the door system.

5. Operation

The electric strike operates by electromagnetism, which pulls or pushes a release lever to lock or open the door. It is designed to work in conjunction with an access control system and a compatible rim exit device.

5.1. Normal Operation

- When the access control system sends an unlock signal, the electric strike's internal mechanism retracts, allowing the door's latchbolt to pass freely, thus opening the door.
- When the door closes, the latchbolt engages with the strike, and if no unlock signal is present, the strike secures the door.

5.2. Fail-Safe vs. Fail-Secure Behavior

- **Fail-Safe Mode:** In the event of a power outage, the electric strike will unlock, allowing free egress.
- **Fail-Secure Mode:** In the event of a power outage, the electric strike will remain locked, maintaining security.

Test the operation after installation to ensure it functions as intended with your access control system.

[redacted]

Video Description: This short video demonstrates the electric strike lock in operation, showing how it releases the door when activated by an access control system. It provides a quick visual of the lock's functionality.

6. Maintenance

Regular maintenance ensures the longevity and reliable operation of your electric strike lock.

- **Cleaning:** Periodically clean the exterior of the strike with a soft, dry cloth. Avoid abrasive cleaners or solvents.
- **Inspection:** Annually inspect the strike for any signs of wear, damage, or loose screws. Ensure the latchbolt engages smoothly.

- **Lubrication:** Lightly lubricate moving parts with a silicone-based lubricant if friction is observed. Do not over-lubricate.
- **Wiring Check:** Verify that all wiring connections remain secure and free from corrosion.

If any issues are detected, refer to the troubleshooting section or contact support.

7. Troubleshooting

Refer to the table below for common issues and their solutions:

Problem	Possible Cause	Solution
Strike does not unlock electrically.	No power, incorrect wiring, faulty power supply, incorrect fail-safe/fail-secure setting.	Check power supply (12VDC), verify wiring connections, ensure correct fail-safe/fail-secure setting. Test power supply output.
Strike remains unlocked.	Stuck mechanism, continuous unlock signal, incorrect fail-safe/fail-secure setting.	Inspect for obstructions, check access control system for continuous signal, verify fail-secure setting if desired.
Door does not close properly or latch engages with difficulty.	Misalignment of strike and latchbolt, worn components, door sag.	Adjust strike position, inspect latchbolt for wear, check door hinges and frame for alignment issues.
Audible buzzing or humming from strike.	AC power supply used (device requires DC), loose components, faulty solenoid.	Ensure a 12VDC power supply is used. Check for loose screws. If buzzing persists, contact support.

8. Specifications

Feature	Detail
Model	UT0511-621
Operating Voltage	DC12V
Current Draw	12V/220mA
Holding Force	1100lbs (500kg)
Faceplate Dimensions (LxW)	9-1/16" x 1-19/32" (230 x 40.5mm)
Strike Opening (LxWxD)	1-37/64" x 1-5/32" x 15/16" deep (39.9 x 29.5 x 24mm deep)
Lock Tongue Structure	304 Stainless Steel
Operation Mode	Field-selectable Fail-Safe (NO) / Fail-Secure (NC)
Signal Output	Lock Status (NO/NC/COM), Door Position Status (NO/NC/COM)
Suitable For	Fire exit doors with Push-rod lock / Rim exit devices with 3/4" Pullman latchbolts
Operating Temperature	14°F - 131°F (-10°C - 55°C)
Operating Humidity	0~90% (non-condensing)

Feature	Detail
Material	Aluminum, Stainless Steel
Weight	1.65 lbs (0.75 kg)

9. Warranty and Support

9.1. Warranty Information

UHPPOTE products are manufactured to high-quality standards. This product comes with a limited warranty against defects in materials and workmanship under normal use. For specific warranty terms and duration, please refer to the warranty card included with your product or contact UHPPOTE customer service.
The warranty does not cover damage caused by improper installation, misuse, unauthorized modification, or natural disasters.

9.2. Customer Support

If you encounter any issues or have questions regarding the UHPPOTE Electric Strike Lock, please contact our customer support team. Provide your product model number (UT0511-621) and a detailed description of the issue for efficient assistance.
UHPPOTE Contact Information:

- **Website:** Visit the UHPPOTE Store on Amazon
- *(Additional contact details may be available on the product packaging or official website.)*

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Details

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