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› [Aiphone EL-12S Electric Door Strike, 12VAC or VDC Power Requirement](#)

Aiphone EL-12S

Aiphone EL-12S Electric Door Strike User Manual

Model: EL-12S

1. PRODUCT OVERVIEW

The Aiphone EL-12S electric door strike is designed to work in conjunction with an access control system (sold separately) to provide secure access control for doors. This device ensures that a door remains locked until an authorized signal is received from the access control system, allowing the door to be opened.

It is specifically recommended for use with wood-framed wooden doors and offers versatile installation options, supporting both surface and mortise mounting configurations.



Figure 1: Aiphone EL-12S Electric Door Strike. This image shows the grey-colored electric door strike unit, designed for integration into a door frame. It features a central opening for the door latch and screw holes for mounting.

2. WHAT'S INCLUDED

Upon unpacking your Aiphone EL-12S Electric Door Strike, please verify that all components are present:

- Aiphone EL-12S Electric Strike Unit
- Mounting plate
- Mounting hardware (screws, etc.)
- Instruction Manual (this document)

If any items are missing or damaged, please contact Aiphone customer support immediately.

3. INSTALLATION AND SETUP

The EL-12S electric door strike can be installed in two primary configurations: surface mounted or mortise mounted. The choice of mounting depends on the door frame type and desired aesthetic.

3.1. Pre-installation Considerations

- Ensure the door is a wood-framed wooden door.
- Verify compatibility with your existing or planned access control system.
- Confirm power requirements: 12VAC or VDC.
- Disconnect power to the installation area before beginning.

3.2. Mounting Options

Mortise Mounted: For a flush installation where the strike is recessed into the door frame. This requires precise cutting of a mortise pocket in the frame to accommodate the strike unit. The overall dimensions for mortise mounted installation are 160 x 25 x 31 mm (H x W x D).

Surface Mounted: For installations where the strike is mounted directly onto the surface of the door frame. This method is generally simpler and does not require extensive frame modification. The overall dimensions for surface mounted installation are 160 x 50 x 31 mm (H x W x D).

3.3. Wiring

Connect the EL-12S to your 12VAC or VDC power supply and access control system according to the wiring diagram provided in the separate detailed installation guide (not part of this manual). Ensure all connections are secure and insulated to prevent short circuits.

Power consumption is 125mA using AC power and 200mA using DC power.

4. OPERATION

The Aiphone EL-12S Electric Door Strike operates as a component of a larger access control system. It does not function independently.

- When the door is closed, the door latch engages with the strike, securing the door.
- Upon receiving an authorized signal from the connected access control system (e.g., card reader, keypad, intercom system), the electric strike mechanism releases, allowing the door latch to move freely and the door to be opened.
- Once the door is closed again, the strike automatically re-engages, securing the door until the next authorized signal.

Refer to your access control system's manual for specific instructions on how to grant access and integrate with the EL-12S.

5. MAINTENANCE

The Aiphone EL-12S Electric Door Strike is designed for reliable operation with minimal maintenance. However, periodic checks can help ensure its longevity and proper function.

- **Cleaning:** Keep the strike mechanism free from dust and debris. Use a soft, dry cloth for cleaning. Avoid abrasive cleaners or solvents.
- **Inspection:** Periodically inspect the strike for any signs of wear, damage, or loose connections. Ensure the mounting hardware remains secure.
- **Lubrication:** The internal mechanism is generally self-lubricating. Do not apply oil or grease unless specifically instructed by Aiphone technical support.

For any issues requiring internal access or repair, contact qualified service personnel or Aiphone customer support.

6. TROUBLESHOOTING

This section provides basic troubleshooting steps for common issues. For complex problems, consult a qualified technician or Aiphone support.

Problem	Possible Cause	Solution
Strike does not release when access is granted.	No power to the strike; faulty wiring; issue with access control system; mechanical obstruction.	Check power supply and connections. Verify access control system is sending a signal. Inspect for debris or misalignment.
Door rattles or does not close securely.	Strike misalignment; incorrect installation.	Adjust the strike's position to ensure proper alignment with the door latch. Re-check installation according to the detailed guide.
Strike makes unusual noises.	Internal wear or damage; foreign object.	Discontinue use and contact Aiphone support for inspection.

7. SPECIFICATIONS

Detailed technical specifications for the Aiphone EL-12S Electric Door Strike:

Feature	Detail
Model Number	EL-12S
Power Requirements	12VAC or VDC
Power Consumption (AC)	125mA
Power Consumption (DC)	200mA
Overall Dimensions (Mortise Mounted)	160 x 25 x 31 mm (H x W x D) / 6-5/16 x 1 x 1-7/32 inches (H x W x D)
Overall Dimensions (Surface Mounted)	160 x 50 x 31 mm (H x W x D) / 6-5/16 x 1-31/32 x 1-7/32 inches (H x W x D)
Recommended Door Type	Wood-framed wooden doors
Product Dimensions (Shipping)	6.4 x 2 x 1.5 inches; 12.8 ounces
Manufacturer	AIPHONE COMMUNICATIONS
Country of Origin	United States


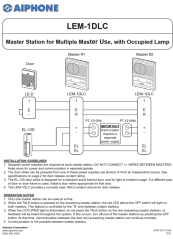
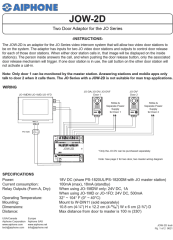
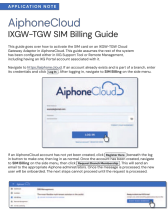
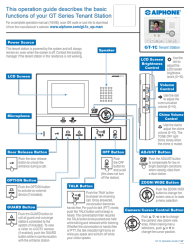
8. WARRANTY AND SUPPORT

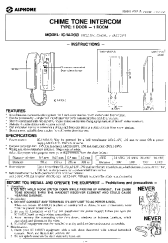
Aiphone products are manufactured to high standards, adhering to International Organization for Standardization (ISO) standards 9001 and 14001, ensuring quality and environmental management.

For warranty information, technical support, or service inquiries regarding your Aiphone EL-12S Electric Door Strike, please refer to the official Aiphone website or contact their customer service department directly. Contact details can typically be found on the manufacturer's packaging or their official website.

Note: This manual provides general information. Always refer to the specific installation instructions and wiring diagrams provided with your product for detailed guidance.

Related Documents - EL-12S

	<p>Aiphone EL-12S Electric Door Strike Installation Manual</p> <p>Comprehensive installation manual for the Aiphone EL-12S electric door strike, detailing safety precautions, package contents, wiring diagrams, step-by-step installation guides for built-in and surface mount applications, technical specifications, and warranty information.</p>
	<p>Aiphone LEM-1DLC Master Station Installation and Operation Guide</p> <p>Detailed installation and operation guide for the Aiphone LEM-1DLC master station, designed for multiple master use with occupied lamp functionality, including wiring diagrams and specifications.</p>
	<p>Aiphone JOW-2D Two Door Adaptor for JO Series Video Intercom System - Installation Guide</p> <p>Detailed instructions and specifications for the Aiphone JOW-2D adaptor, enabling two door stations for the JO Series video intercom system. Learn about wiring, power, and operational features for intercom installations.</p>
	<p>AiphoneCloud IXGW-TGW SIM Billing Guide - Activate Cloud Gateway SIM</p> <p>This guide provides instructions on activating the SIM card for the AiphoneCloud IXGW-TGW Cloud Gateway Adaptor, covering login, SIM status, data plan selection, and payment.</p>
	<p>Aiphone GT-1C Tenant Station Operation Guide</p> <p>Comprehensive operation guide for the Aiphone GT-1C Tenant Station. Learn about its power source, LCD screen, speaker, microphone, and the functions of buttons like Door Release, Option, Guard, Talk, and Off, along with side controls for brightness, volume, and zoom.</p>



[Aiphone IC-1AD\(U\) Chime Tone Intercom System: Installation and Operation Guide](#)

Comprehensive guide for the Aiphone IC-1AD(U) 1-door, 1-room chime tone intercom system, covering features, specifications, installation, wiring, operation, and warranty.