

Aiphone RY-3DL

Aiphone RY-3DL Selective Door Release Adaptor User Manual

For JF, JM, or KB Series Intercom Systems

1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the Aiphone RY-3DL Selective Door Release Adaptor. Please read this manual thoroughly before attempting installation or operation to ensure correct usage and to prevent damage to the unit or connected systems.

2. PRODUCT OVERVIEW

The Aiphone RY-3DL is a selective door release adaptor designed to integrate with Aiphone JF, JM, or KB series intercom systems. It enables selective door release functionality, allowing the user to release the door associated with the specific intercom station currently in communication. This adaptor provides both Normally Open (N/O) contacts for electric strikes and Normally Closed (N/C) contacts for magnetic locks, offering versatile compatibility with various door locking mechanisms.

3. FEATURES

- **Selective Door Release:** Activates the door release for the specific station currently communicating.
- **Single Button Activation:** Designed for ease of use with a single button press on the intercom master station.
- **Versatile Contact Types:** Includes Normally Open (N/O) contacts for electric strikes and Normally Closed (N/C) contacts for magnetic locks.
- **System Compatibility:** Compatible with Aiphone JF, JM, and KB series intercom systems.
- **Durable Construction:** Constructed from ABS plastic for reliability.

4. PACKAGE CONTENTS

Upon opening the package, verify that all components are present and undamaged:

- Aiphone RY-3DL Selective Door Release Adaptor Unit
- Mounting Hardware
- This Instruction Manual

5. SETUP AND INSTALLATION

Important: Installation should only be performed by qualified personnel. Always disconnect power to the intercom system before beginning any installation work. Refer to the specific installation manual for your Aiphone JF, JM, or KB series master station for detailed wiring diagrams and instructions.

5.1 Mounting the Adaptor

The RY-3DL adaptor is designed for indoor use. Mount the unit in a secure, dry location, typically near the intercom master station or the main system wiring hub. Use the provided mounting hardware to secure the adaptor to a wall or suitable surface.



Image showing the Aiphone RY-3DL Selective Door Release Adaptor unit, typically a compact electronic module with wiring terminals. This unit facilitates selective door release for compatible intercom systems.

5.2 Wiring Connections

Connect the RY-3DL adaptor to your Aiphone JF, JM, or KB series intercom system and the door locking device (electric strike or magnetic lock) according to the wiring diagrams provided in your main intercom system manual. The RY-3DL features screw terminal connections for easy and secure wiring.

- Connect the appropriate wires from the intercom master station to the RY-3DL input terminals.
- Connect the door locking device to the RY-3DL output terminals. Use N/O contacts for electric strikes and N/C contacts for magnetic locks.
- Ensure all connections are secure and properly insulated.

After all connections are made, restore power to the intercom system.

6. OPERATION

Once installed and wired correctly, the RY-3DL adaptor operates in conjunction with your Aiphone JF, JM, or KB series intercom system to provide selective door release.

1. Establish communication with an outdoor or sub-station via your intercom master station.
2. While communication is active, press the door release button on your master station.
3. The RY-3DL will activate the door locking device associated with the communicating station, releasing the door.

The door release contacts will only activate for the specific door where communication is currently established, preventing unintended door releases.

7. MAINTENANCE

The Aiphone RY-3DL adaptor is designed for reliable, long-term operation with minimal maintenance. Follow these guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Do not use abrasive cleaners, solvents, or spray directly onto the unit.
- **Inspection:** Periodically inspect wiring connections to ensure they remain secure and free from corrosion.
- **Environment:** Ensure the adaptor remains in a dry environment, free from excessive dust, moisture, and extreme temperatures.

No user-serviceable parts are inside the unit. Do not attempt to open or repair the adaptor yourself.

8. TROUBLESHOOTING

If you experience issues with your RY-3DL adaptor, consider the following common troubleshooting steps:

- **Door Release Not Activating:**
 - Ensure communication is established with the desired station before pressing the door release button.
 - Check all wiring connections between the RY-3DL, the intercom system, and the door locking device.
 - Verify that the door locking device (electric strike/magnetic lock) is functioning correctly independently.
 - Confirm that the correct contact type (N/O for electric strike, N/C for magnetic lock) is used.
- **Intermittent Operation:**
 - Inspect for loose or corroded wiring connections.
 - Check for any environmental factors (e.g., moisture, extreme temperatures) affecting the unit.
- **System Malfunction:** If the entire intercom system is not functioning, consult the main intercom system manual for troubleshooting.

If problems persist after attempting these steps, contact Aiphone technical support or a qualified service technician.

9. SPECIFICATIONS

Model Number	RY-3DL
Product Dimensions (L x W x H)	6.1 x 3.7 x 2.1 inches
Item Weight	8.8 ounces
Manufacturer	Aiphone Corporation
Construction Material	ABS Plastic
Compatibility	Aiphone JF, JM, KB Series Intercom Systems
Contact Types	Normally Open (N/O), Normally Closed (N/C)
Voltage (Max Surge)	180 Volts (Note: This voltage is listed in the original product specs, likely referring to surge protection capability or maximum switching voltage, not operating voltage of the adaptor itself. Refer to your intercom system manual for operating voltage.)

10. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact Aiphone Corporation directly or visit their official website. Keep your purchase receipt as proof of purchase for warranty claims.

Aiphone Corporation Contact Information:

www.aiphone.com