System Sensor HR-LF

System Sensor HR-LF Low Frequency Sounder User Manual

Model: HR-LF

INTRODUCTION

The System Sensor HR-LF is a low frequency sounder designed for indoor use in security and surveillance systems, specifically for sound detection and alarm output. This device is engineered to provide clear and effective audible alerts, crucial for life safety applications. This manual provides essential information for the proper installation, operation, and maintenance of your HR-LF sounder.

SAFETY INFORMATION

Please read and understand all instructions before installing or operating the HR-LF sounder. Failure to follow these instructions may result in property damage, injury, or death. This device must be installed by qualified personnel in accordance with all local and national electrical and fire codes.

- **Disconnect Power:** Always disconnect power to the circuit before installing, servicing, or removing the device.
- **Proper Wiring:** Ensure all wiring connections are secure and comply with the wiring diagram provided with the device.
- **Environmental Conditions:** Install the device in an environment that meets its specified operating conditions.
- **Testing:** Regularly test the device after installation and during routine maintenance to ensure proper operation.

PACKAGE CONTENTS

Verify that all items are present before beginning installation:

- System Sensor HR-LF Low Frequency Sounder (Red)
- Mounting Hardware (screws, anchors)
- Installation Guide (this document)

SETUP AND INSTALLATION

The HR-LF sounder is designed for surface mount installation. Follow these steps for proper setup:

1. **Choose Location:** Select an indoor location that provides optimal sound coverage and complies with local codes. Ensure the mounting surface is flat and secure.

2. **Prepare Wiring:** Route the necessary electrical wiring to the chosen mounting location. Ensure power is disconnected before proceeding.

3. **Mounting:**

Image: Front view of the System Sensor HR-LF low frequency sounder. This red device features a grille for sound emission and mounting points for surface installation.

   - Position the sounder base against the wall or ceiling at the desired mounting point.
   - Mark the locations for the mounting screws.
   - Drill pilot holes if necessary, and insert wall anchors if mounting into drywall.
   - Secure the sounder base to the mounting surface using the provided screws.

4. **Wiring Connections:** Connect the field wiring to the terminal block on the sounder base according to the wiring diagram provided with the device. Pay close attention to polarity.

5. **Attach Sounder Head:** Once wiring is complete and secure, attach the sounder head to the mounted base, ensuring it locks into place.

6. **Restore Power:** After verifying all connections, restore power to the circuit.

7. **Test Operation:** Perform an operational test as described in the "Operating Instructions" section.

OPERATING INSTRUCTIONS

The System Sensor HR-LF low frequency sounder operates as an alarm output device, typically activated by a connected fire alarm control panel or security system. It is designed to produce a distinct low-frequency tone for occupant notification.

- **Activation:** The sounder will activate when it receives a signal from the connected control panel, indicating an alarm condition.
- **Sound Pattern:** The HR-LF typically produces a temporal 3 pattern (three short pulses followed by a pause), which is standard for fire alarm notification. Refer to your control panel's documentation for specific output patterns.
- **Deactivation:** The sounder will deactivate when the alarm condition on the control panel is cleared or reset.

Note: The HR-LF is an output device and does not have user-configurable settings directly on the unit. All operational parameters are controlled by the connected fire alarm or security system.

MAINTENANCE

Regular maintenance ensures the continued reliable operation of your HR-LF sounder.

- **Cleaning:** Periodically clean the exterior of the sounder with a soft, dry cloth to remove dust and debris. Do not use abrasive cleaners or solvents.
- **Testing:** Conduct periodic functional tests in accordance with local codes and manufacturer recommendations (typically annually) to ensure the sounder activates and produces the correct sound pattern.
- **Inspection:** Visually inspect the device for any signs of damage, loose connections, or obstructions to the sound output.

TROUBLESHOOTING

If your HR-LF sounder is not functioning as expected, refer to the following common issues and solutions:

Problem	Possible Cause	Solution
Sounder does not activate.	No power to the device. Incorrect wiring. Control panel not sending activation signal.	Verify power supply. Check wiring connections against diagram. Inspect control panel status and output.
Sounder activates intermittently.	Loose wiring connection. Faulty control panel output.	Secure all wiring connections. Consult control panel manual or contact qualified technician.
Sound is weak or distorted.	Obstruction in front of sounder. Device damage.	Clear any obstructions. Inspect for physical damage; replace if necessary.

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

SPECIFICATIONS

Brand	System Sensor
Model Number	HR-LF
Material	Plastic
Style	Modern
Mounting Type	Surface Mount
Output Type	Alarm
Specific Uses	Indoor, Sound Detection
ASIN	B015NEAOB2
Date First Available	October 5, 2016

WARRANTY AND SUPPORT

System Sensor products are designed for reliability and performance. For specific warranty information, please refer to the warranty statement included with your product packaging or visit the official System Sensor website. For technical support, installation assistance, or service inquiries, please contact System Sensor customer service or your authorized distributor.
Contact information can typically be found on the manufacturer's website or product packaging.