



## WIRING GUIDELINES

All wiring must be installed in compliance with the National Electrical Code and the local codes having jurisdiction and must not be of such length or wire size which would cause the base to operate outside of its published specifications. The conductors used to connect smoke sensors to control panels and accessory devices should be color coded to reduce the likelihood of wiring errors. Improper connections can prevent a system from responding properly in the event of a fire.

Wire sizes up to 12 AWG (2.5 mm<sup>2</sup>) may be used with the base. The sounder base will be shipped with the screw terminals set for 14 AWG wiring. If 12 AWG wire is to be used, back out the screws to allow the wire to fit beneath the clamping plates. For best system performance, the power (+ and -) wires and the communication circuit wires should be twisted pair or shielded cable installed in a separate grounded conduit to protect the communication loop from electrical interference.

Make wire connections by stripping about  $\frac{3}{8}$ " of insulation from the end of the wire. Then, slide the bare end of the wire under the appropriate clamping plate (See Figure 1), and tighten the clamping plate screw. Do NOT loop the wire under the clamping plate. (See Figure 2.) The wiring diagram for a typical 2-wire intelligent system is shown in Figure 4.

### CAUTION

For system monitoring - for terminals 2, 3, 4, and 5, do not use looped wire under terminals. Break wire run as shown in Figure 2 to provide monitoring of connections.

FIGURE 1.

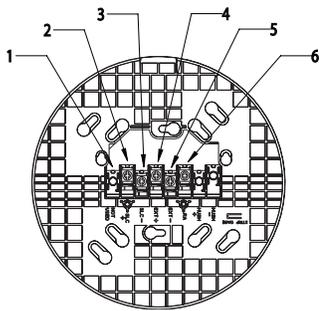
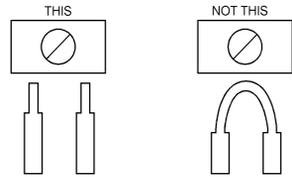


FIGURE 2.



C0471-08

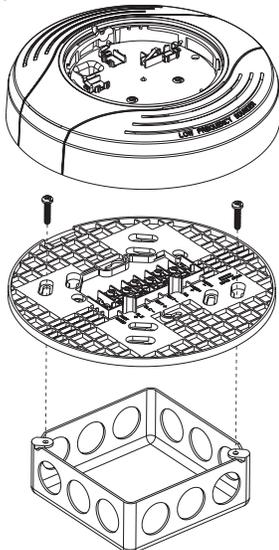
C0473-00

## B200S-LF-WH/B200S-LF-IV TERMINALS

No. Function

1. Not Used
2. Positive (+) Comm. Line In and Out
3. Negative (-) Comm. Line In and Out
4. External Supply Positive (+)
5. External Supply Negative (-)
6. Remote Annunciator

FIGURE 3. MOUNTING



C0891-09

## MOUNTING

Mount the B200S-LF-WH/B200S-LF-IV mounting plate directly to an electrical box. The plate will mount directly to 4" square (with and without plaster ring), 4" octagon, 3 $\frac{1}{2}$ " octagon, single gang or double gang junction boxes.

1. Connect field wiring to terminals, as shown in Figure 1 and 2.
2. Attach the mounting plate to the junction box as shown in Figure 3.
3. To mount the sounder base, hook the tab on the sounder base to the groove on the mounting plate.
4. Then, swing the sounder base into position to engage the pins on the product with the terminals on the mounting plate.
5. Secure the sounder base by tightening the mounting screws.
6. Install a compatible smoke sensor as described in the installation manual for the sensor.

### CAUTION

Do not over tighten mounting plate screws; this may cause mounting plate to flex.

## TAMPER RESISTANT FEATURE

NOTE: Do not use the tamper-resist feature if the removal tool is to be used. This detector base includes a tamper-resist feature that prevents its removal from the base without the use of a tool. To activate this feature, break the tab from the detector base as shown in Figure 7A. Then, install the detector. To remove the detector from the base once the tamper-resist feature has been activated, insert a small-bladed screwdriver into the slot from the top and press down on the lever (see Figure 7B). This allows the detector to be rotated counterclockwise for removal. The tamper-resist feature can be defeated by breaking and removing the plastic lever from the base. However, this prevents the feature from being used again.

## TESTING AND MAINTENANCE

Sensors and bases must be tested after installation and as an integral part of a periodic maintenance program. Test the B200S-LF-WH/B200S-LF-IV as follows:

NOTE: Before testing, notify the proper authorities that the smoke sensor system is undergoing maintenance and, therefore, will be temporarily out of service. Disable the system undergoing maintenance to prevent unwanted alarms.

1. Via the FACP, command the individual B200S-LF-WH/B200S-LF-IV to activate using the associated sensor address. That sounder base should sound in approximately five seconds.
2. Via the FACP, command all B200S-LF-WH/B200S-LF-IV low frequency sounder bases to activate using group communication to all associated addresses. All devices on the loop should sound, and if a temporal tone is commanded, the tones can be synchronized to each other.

NOTE: Synchronization requires a power supply capable of producing the System Sensor synchronization pulses or a synchronization module.

When performing maintenance on connected smoke sensors, carefully note the location and address of each removed sensor. When re-installed, the B200S-LF-WH/B200S-LF-IV will confirm that address of the sensor matches the address stored in the sounder base memory. If there is a mismatch, this will be communicated to the FACP and the sounder base can be commanded to chirp at regular intervals until the correct head is installed.

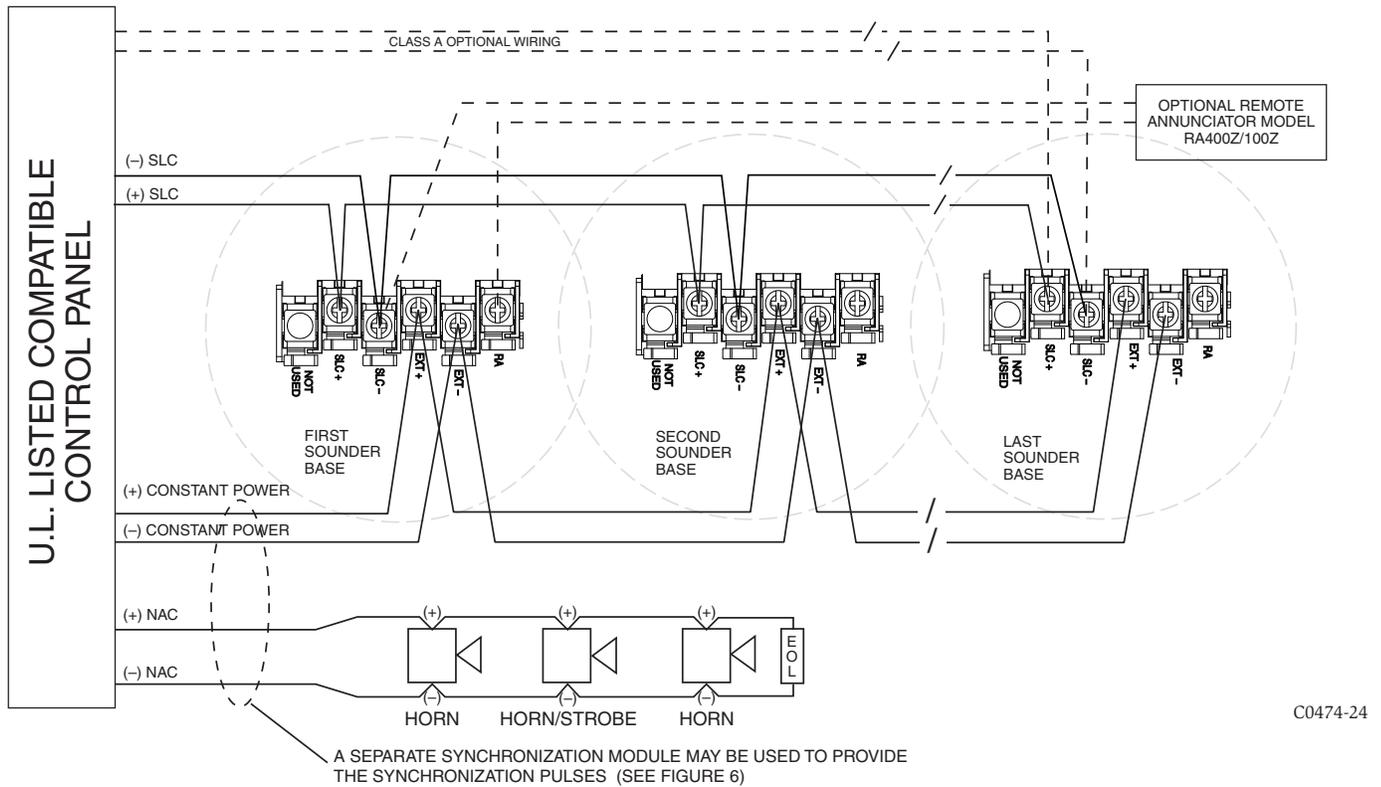
If a replacement head is installed or address changes are required, the mismatch may be resolved at the panel by commanding the B200S-LF-WH/B200S-LF-IV low frequency sounder base to re-enter its address learning mode and adopting the address of the new sensor.

**FIGURE 4. WIRING DIAGRAM**

**(CONNECTED TO 24V POWER USING COMPATIBLE FACP WITH "SOUNDER BASE STANDBY POWER MONITORING" ENABLED)**

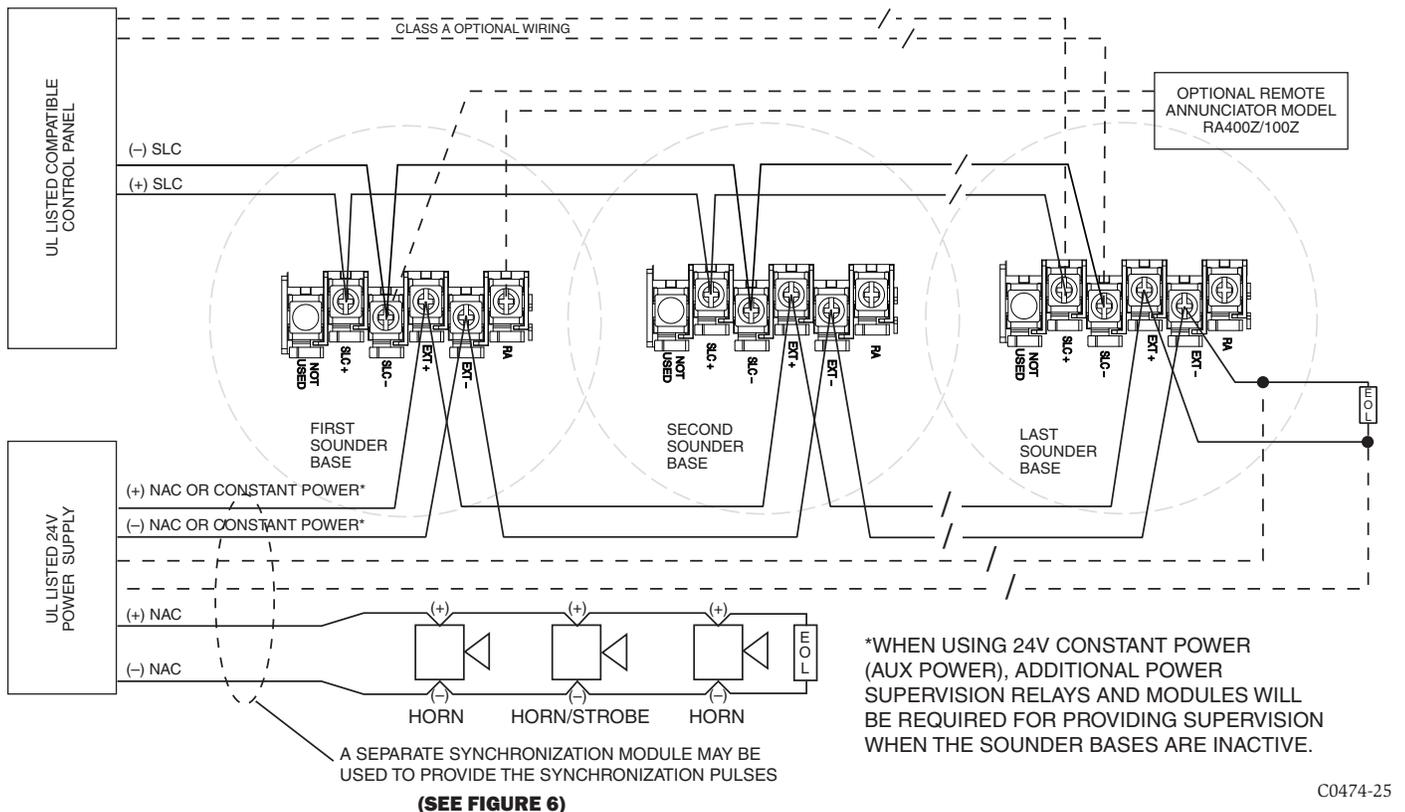
NOTE: Only use this wiring diagram when connecting to 24VDC power using a FACP listed in the table on page 1. Please consult your FACP manufacturer for panel-specific wiring configurations and special cases.

Additional Audible Visible devices may be connected to the same power supply or the the NAC output of the Fire Alarm Control Panel (FACP) to provide a synchronized communication of the alarm signal.

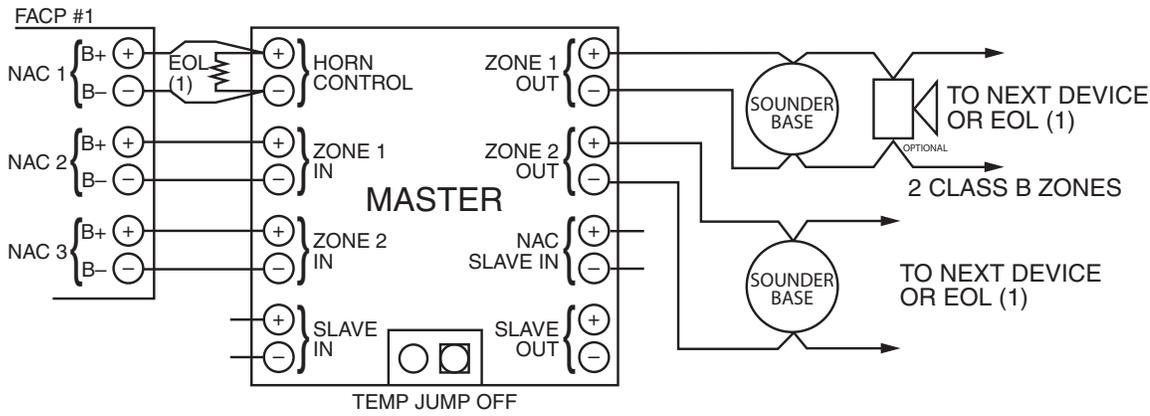


**FIGURE 5. WIRING DIAGRAM (CONNECTED TO NAC OR 24V POWER; OPTIONAL EOL DEVICES FOR CONSTANT SUPERVISION)**

NOTE: Only use this wiring diagram when connecting to a NAC or a 24V power supply that does not support "sounder base standby power monitoring" (see page 1).



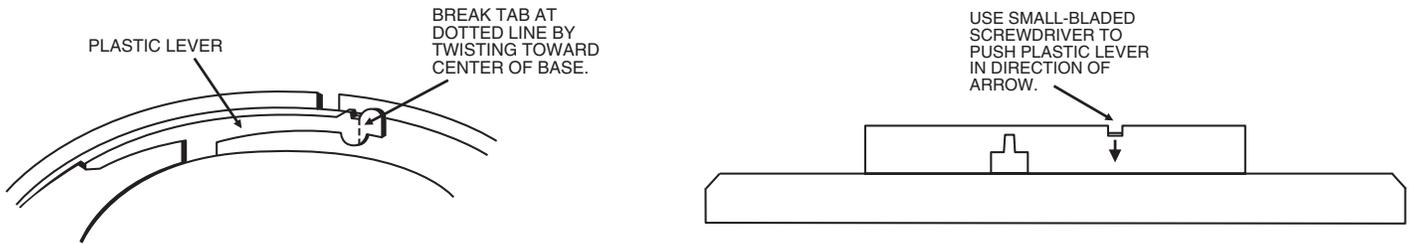
**FIGURE 6. SYNCHRONIZATION DIAGRAM (FOR MDL SERIES SYNC MODULES ONLY)**



C1090-02

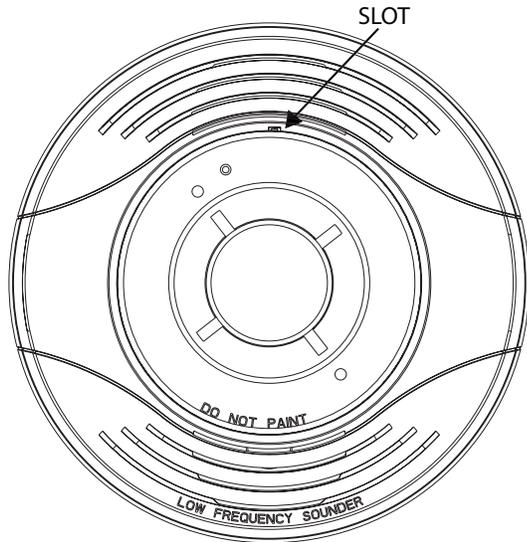
NOTE: Wiring shown for System Sensor MDL Series Sync Module. For additional wiring configurations, see your sync module manual.

**FIGURE 7A. ACTIVATING THE TAMPER-RESIST FEATURE**



C0144-00

**FIGURE 7B. REMOVING THE DETECTOR HEAD FROM THE BASE**



C1082-01

NOTE: B200S-LF-WH and B200S-LF-IV replace the previous model number B200S-LF; all are functionally the same.

## Please refer to insert for the Limitations of Fire Alarm Systems

### THREE-YEAR LIMITED WARRANTY

System Sensor warrants its enclosed smoke detector base to be free from defects in materials and workmanship under normal use and service for a period of three years from date of manufacture. System Sensor makes no other express warranty for this smoke detector base. No agent, representative, dealer, or employee of the Company has the authority to increase or alter the obligations or limitations of this Warranty. The Company's obligation of this Warranty shall be limited to the repair or replacement of any part of the smoke detector base which is found to be defective in materials or workmanship under normal use and service during the three year period commencing with the date of manufacture. After phoning System Sensor's toll free number 800-SENSOR2 (736-7672) for a Return Authorization number, send defective units postage prepaid to: Honeywell,

12220 Rojas Drive, Suite 700, El Paso TX 79936, USA. Please include a note describing the malfunction and suspected cause of failure. The Company shall not be obligated to repair or replace units which are found to be defective because of damage, unreasonable use, modifications, or alterations occurring after the date of manufacture. In no case shall the Company be liable for any consequential or incidental damages for breach of this or any other Warranty, expressed or implied whatsoever, even if the loss or damage is caused by the Company's negligence or fault. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.