

# INSTALLATION INSTRUCTIONS AND WIRING FOR P/N 8715 ADDRESSABLE AUDIBLE BASE AND P/N 8716 ADDRESSABLE RELAY BASE

The 8715 Addressable Audible Base consists of a polarity insensitive detector base combined with an audible device. All field wiring terminates at two four-position terminal blocks located on the back of the unit. Line 1 and Line 2 can be either line of the loop. The 8715 is used with 8710, 8712 and 8713 detectors.

The 8715 can generate either steady or temporal tone with the selection of a jumper at the terminal block. The 8715 is a UL268 listed smoke detector supplementary device which combines detector base and audible device functions. It meets or exceeds the 85 dB at 10 foot audibility requirement for smoke alarms as specified in UL217, Single and Multiple Station Smoke Alarms and NFPA 72 for sleeping areas.

**CAUTION: The 8715 is used for primary building evacuation; NFPA 72 requires that the source of audible power be capable of operating all primary evacuation audibles at the same time.**

The 8716 Addressable Relay Base consists of a polarity insensitive detector base combined with an output relay. All field wiring terminates at the terminal blocks located on the back of the unit. Line 1 and Line 2 can be either line of the loop. The 8716 is used with 8710, 8712 and 8713 detectors.

## DETECTOR AND BASE PLACEMENT

Detector placement should be based on a careful evaluation of all facets of the protected area. When drawings are not available, refer to *Detector Placement* section of detector Installation/Wiring Instructions and to NFPA 72, National Fire Alarm Code, Chapter on Initiating Devices.

## BASE WIRING

Bases should be interconnected as shown in Figure 2 or 3 and wired to the control unit following the wiring drawing in the control units Owners Manual. **Note any limitations on the number of detectors and restrictions on the use of remote devices permitted for each circuit.**

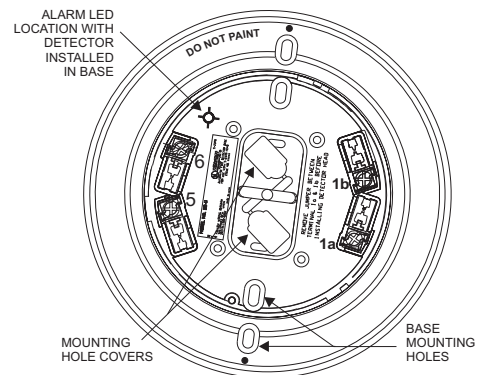
## 8715/8716 BASE MOUNTING

The detector is provided with a separate base which attaches to a 4 inch square electrical box, with the box size and depth required by the NEC for the number and size of conductors used.

The 8716 Addressable Relay Base may also use a 4 inch octagonal electrical box, with the box depth as required.

Wire size: max – 14 AWG, min – 18 AWG.

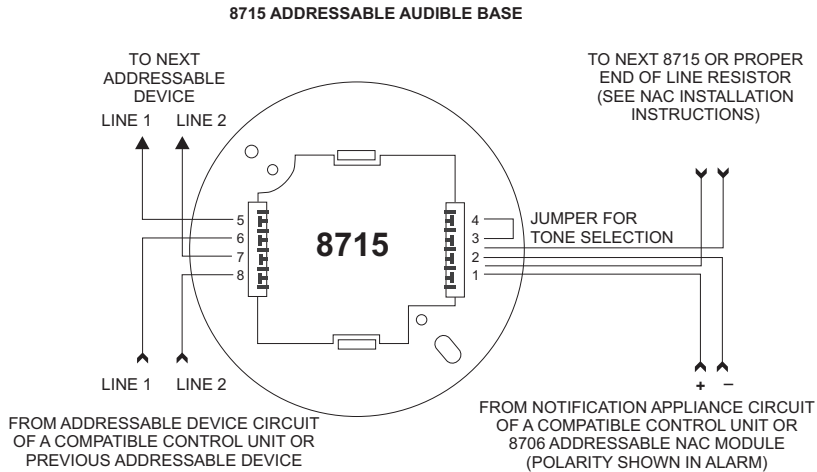
1. Route all wires outward from electrical box.
2. When the detector LED viewing is critical, position the LED mark in the base in the intended direction.
3. Route wires through the hole in the center of the base and mount base to electrical box. Make connections directly to the base terminals. Refer to Figures 2 and 3 for details.
4. After all bases are installed, check wiring integrity.
5. To insure proper installation of the detector head into the base:
  - a. Route wires away from connector terminals.
  - b. Take up all slack in the electrical box.
  - c. Properly dress and position all wires flat against the base.
  - d. Check that screw terminals are tight.



**Figure 1**  
**8715/8716 Mounting**



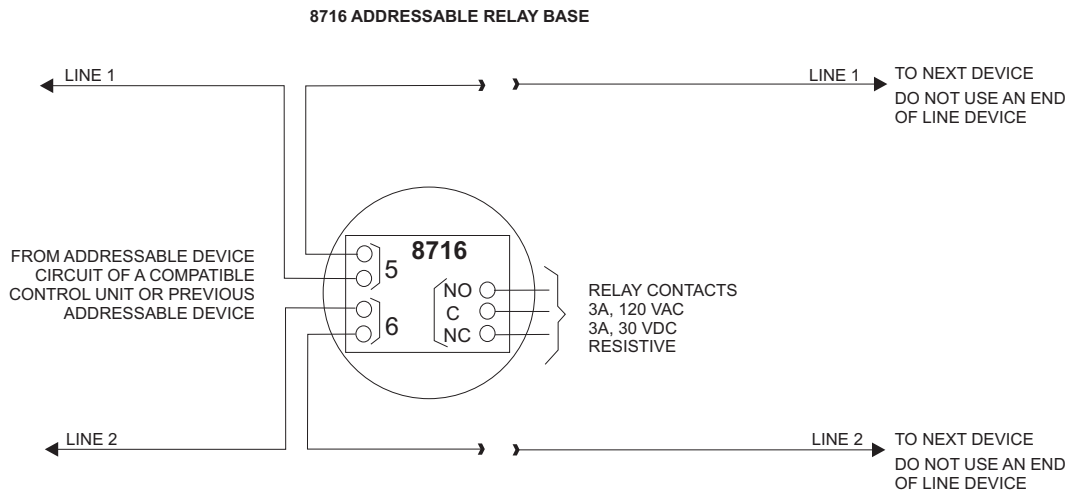
Siemens Industry, Inc.  
Building Technologies Division • Florham Park, NJ  
Tel: (973) 593-2600 • Fax: (973) 593-6670  
Web: [www.faradayfirealarms.com](http://www.faradayfirealarms.com)



**NOTES:**

1. For temporal tone, jumper terminals 3 and 4 as shown. For steady tone, do not jumper terminals 3 and 4.
2. Audible Base electrical ratings:
  - Alarm voltage range: 17-31VDC
  - Supervisory current: 0mA
  - Alarm current: 24mA @ 25VDC
3. T-tapping of notification appliance circuits is not allowed.
4. Terminals 5-8 of the 8715 are polarity insensitive. Line 1 and Line 2 can be either line of the loop.
5. The 8715 shown can be wired as Style Z (Class A) or Style Y (Class B). Refer to the installation instructions for the addressable device circuit and NAC circuit as applicable.
6. Polarity shown in alarm at terminals 1 and 2 of the 8715. Each audible base must be tested to verify operation.

**Figure 2  
8715 Wiring**



NOTE: RELAY CONTACTS ARE SHOWN IN THE SYSTEM NORMAL CONDITION.  
LINE 1 AND LINE 2 CAN BE EITHER LINE OF THE LOOP.

**Figure 3  
8716 Wiring**