



## INSTALLATION INSTRUCTIONS

These instructions apply to all Hochiki America detector bases that utilize an NS detector with LEDs to indicate power, and alarm.

### CAUTION

Install the bases in this instruction in accordance with applicable NFPA standards, local codes, and the authorities having jurisdiction. Failure to follow these instructions may result in failure of the detector to initiate an alarm condition. Hochiki America is not responsible for detectors that have been improperly installed, tested, or maintained.

For testing and cleaning information, refer to page 4 of these instructions and to technical bulletin HA-97 4/97. Also refer to NFPA-72 Chapter 5 for Automatic Fire Detectors for installation guidelines, testing, and maintenance,

Use "3M" Weatherban # 606 non-flammable sealing compound to seal field wiring conduit openings in the mounting back box. Compliance with this

request may reduce the occurrence of the "STACK EFFECT".

FIG. 1

BASE	BOX MOUNTING		
	3" OCT	4" OCT	4" SQR
NS4-BASE	YES	NO	NO
NS6-BASE	NO	YES	YES
HSC-BASE	NO	YES	YES
BASELESS	YES	YES	NO

Connect wiring to the bases as shown in the wiring diagrams that follow. Detectors and bases may be mixed on the same initiating loop as long as the number of two-wire powered detectors does not exceed the specifications of the control panel (see figure 2 below).

### CAUTION

CONNECT WIRING TO TERMINALS AS SHOWN. DO NOT LOOP WIRE UNDER TERMINALS. BREAK WIRE RUN TO PROVIDE SUPERVISION OF CONNECTIONS.

FIG. 2

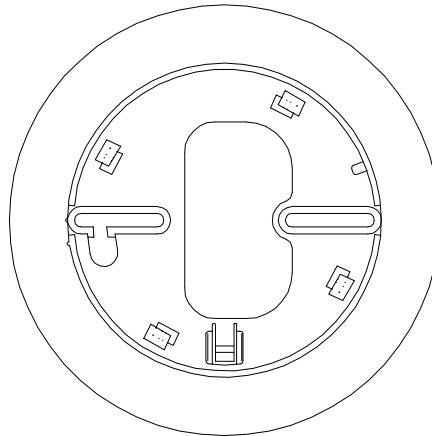
SPECIFICATIONS	SMOKE DETECTOR DATA			
DETECTORS	SLR-835B-2,-835B-2W	SLR-835BH-2,-835BH-2W	SLR-835B-4,-835B-4W	SLR-835BH-4,-835BH-4W
TYPE OF DETECTOR	PHOTOELECTRIC	PHOTOELECTRIC	PHOTOELECTRIC	PHOTOELECTRIC
WORKING VOLTAGE (2-WIRE)	8.0~35.0 VDC	8.0~35.0 VDC	8.0~35.0 VDC	8.0~35.0 VDC
RATED VOLTAGE (4-WIRE)	8.0~35.0 VDC	8.0~35.0 VDC	8.0~35.0 VDC	8.0~35.0 VDC
VOLTAGE WAVEFORM	FILTERED DC * 15% RIPPLE MAX.	FILTERED DC * 15% RIPPLE MAX.	FILTERED DC * 15% RIPPLE MAX.	FILTERED DC * 15% RIPPLE MAX.
MAX. ALARM CURRENT	150 mA	150 mA	150 mA	150 mA
MAX. SURGE CURRENT	200 $\mu$ A	200 $\mu$ A	200 $\mu$ A	200 $\mu$ A
AVERAGE STANDBY CURRENT	38 $\mu$ A @ 12VDC 55 $\mu$ A @ 24VDC 70 $\mu$ A @ 35VDC	38 $\mu$ A @ 12VDC 55 $\mu$ A @ 24VDC 70 $\mu$ A @ 35VDC	38 $\mu$ A @ 12VDC 55 $\mu$ A @ 24VDC 70 $\mu$ A @ 35VDC	38 $\mu$ A @ 12VDC 55 $\mu$ A @ 24VDC 70 $\mu$ A @ 35VDC
HEAT ELEMENT RATING	N/A	135°F	N/A	135°F
COMPATIBILITY IDENTIFIER	HD-6	HD-6	N/A	N/A
SENSITIVITY TEST DEVICES	BUILT-IN TEST FEATURE	BUILT-IN TEST FEATURE	BUILT-IN TEST FEATURE	BUILT-IN TEST FEATURE
HCP-1008E **	30/ZONE	30/ZONE	30/ZONE	30/ZONE

\* When using a four-wire base full wave rectified AC can be used.

\*\* Zone Identifier - 24E (24VDC Control Panel)

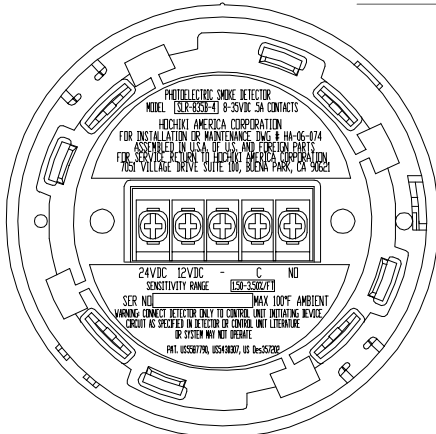
NOTE: When mounting detector on a wall, it must be between 4" and 12" from the ceiling

## BASE STYLE

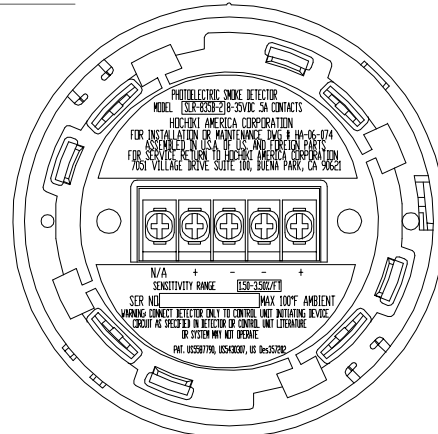


TRIM RING  
(6 INCH)

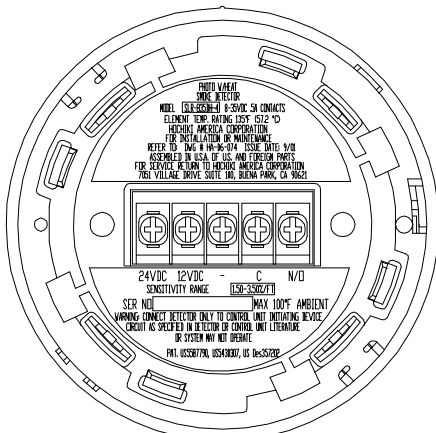
## SLR-835 BASELESS



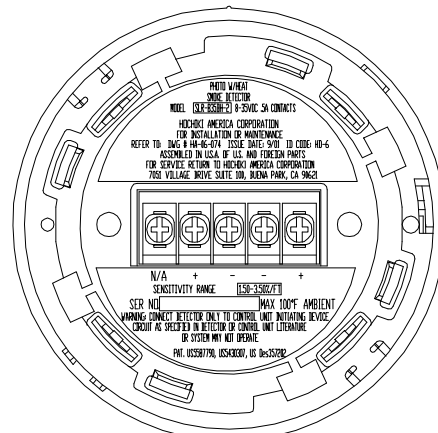
SLR-835B-4



SLR-835B-2

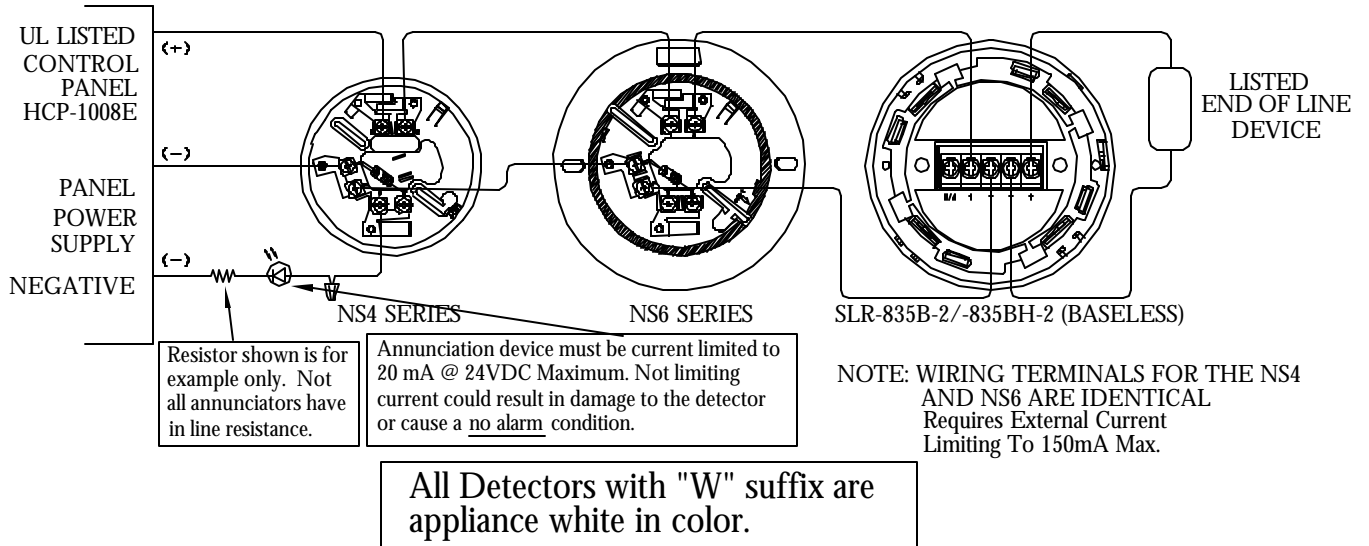


SLR-835BH-4

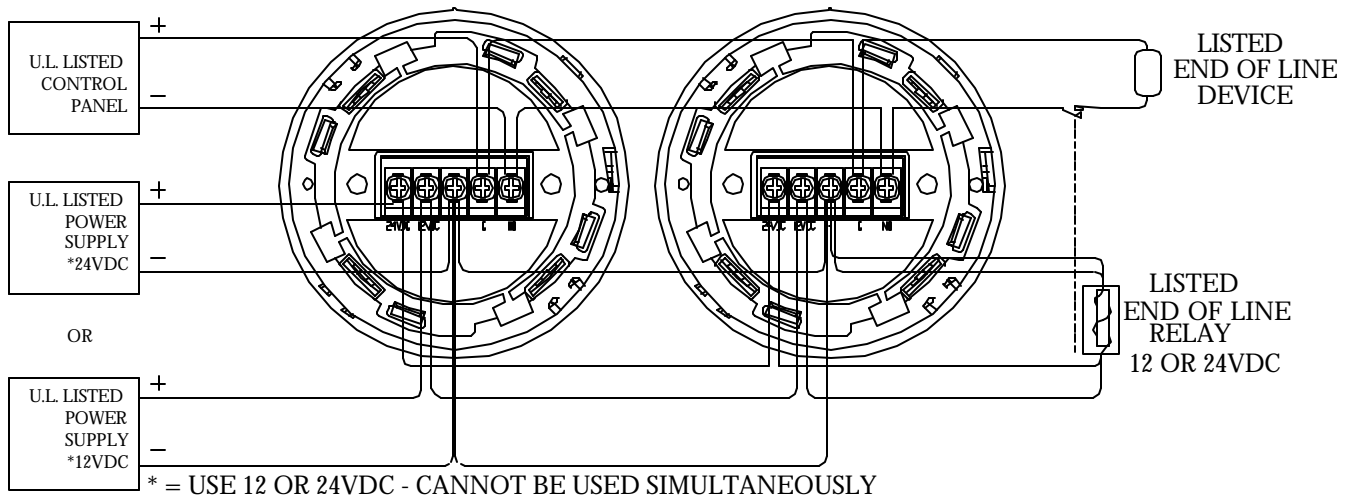


SLR-835BH-2

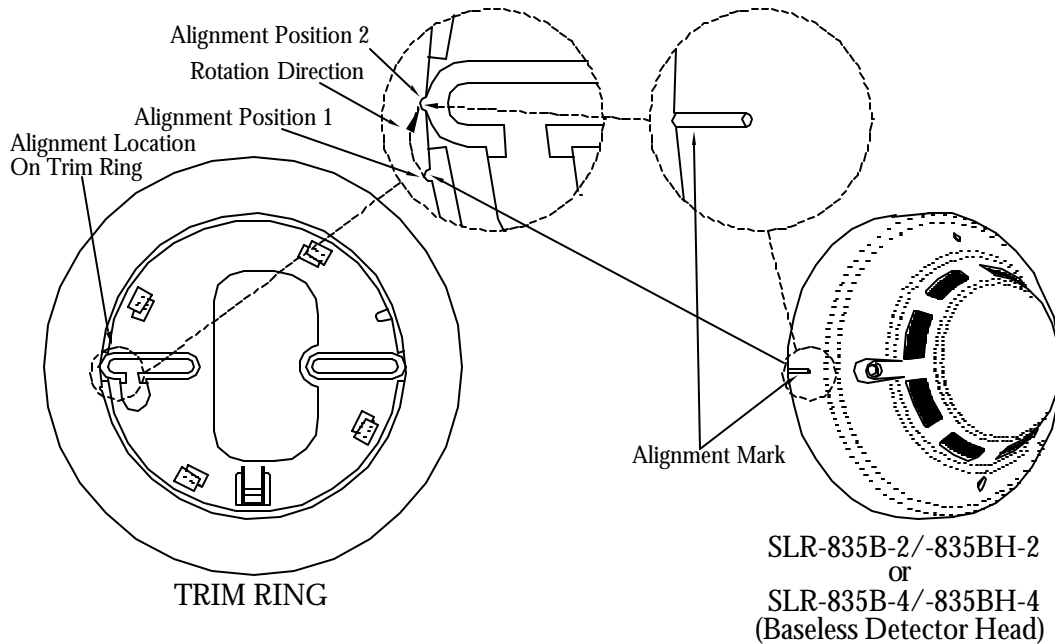
## 2-WIRE OPERATION



## 4- WIRE BASELESS



## MOUNTING THE SLR-835B-2/-835BH-2/-835B-4/-835BH-4



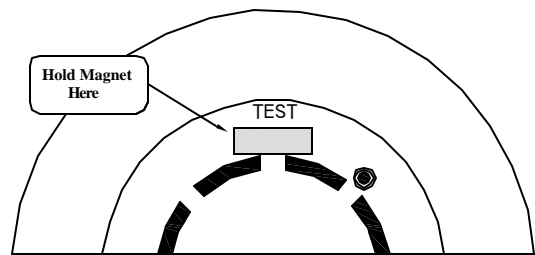
To mount the SLR-835B-2/-835BH-2/-835B-4/-835BH-4 baseless detector Head to the Trim Ring do the following:

- 1) Place the Baseless Detector Head over the Trim Ring with it's back towards the Trim Ring.
- 2) Place the detector with the Alignment Mark at Alignment Position 1(see above diagram).
- 3) Then bring the detector together with the Trim Ring.
- 4) Turn the detector clockwise and when the Alignment Mark is at Alignment Position 2 the detector will snap into place (see above diagram).
- 5) Refer to the above and below diagrams for visual references to the alignment marks.

### TESTING THE SLR-835 SERIES INSTALLATION

For go/no-go testing, a magnet will be required.

1. Hold the magnet just UNDER the word "TEST" as shown on Diagram A.
2. The detector should alarm within 10 seconds (If control panel is programmed for Fire Alarm Verification, it may take up to 30 seconds).
3. The detector's LEDs should be on Red continuously and any control panel indicating appliances should activate.
4. Silence the system and activate the control panel reset to reset smoke detector.
5. The smoke detector LEDs should flash Green.



### SLR-835 Series SENSITIVITY TEST FEATURE

NOTE: The SLR-835 series has a built-in automatic sensitivity test feature.

- 1) In normal condition both LEDs flash Green.
- 2) When the sensitivity drifts outside of its sensitivity limits, both LEDs flash Red.
- 3) In the alarm state both LEDs are on Red continuously.
- 4) When the condition exists as stated in 2) the device needs to be cleaned or returned to the factory for servicing. Refer to Technical bulletin HA-97 for cleaning information.