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**Description**

The SLR-24V can be used in all areas where Photoelectric Smoke Detectors are required. The wide range smoke chamber makes the SLR-24V well suited for fires ranging from smoldering to flaming fires. NS-4 Series, NS-6 Series, HSC-4R or (22X)R Style bases may be used with the SLR-24V. Current interchangeable / compatible devices are the SIJ-24 ionization detector, the SLR-24H Photoelectric detector with heat sensor, and the DCD-135/190 heat detectors.

All NS conventional devices are mechanically compatible with Hochiki America HSB, HSC, and YBA type bases which may have been used in previous installations. Please check individual panel listings for compatible bases.

**Operation**

The SLR-24V photoelectric smoke detector utilizes two bicolored LEDs for indication of status. In a normal standby condition the LEDs Flash Green every 3 seconds. When the detector senses that its sensitivity

has drifted outside the UL listed sensitivity window the LEDs will flash Red every 3 seconds. When the detector senses smoke and goes into alarm the status LEDs will latch on Red.

The detector utilizes an infrared LED light source and silicon photo diode receiving element in the smoke chamber. In a normal standby condition, the receiving element receives no light from the pulsing LED light source.

In the event of a fire, smoke enters the detector smoke chamber and light is reflected from the smoke particles to the receiving element. The light received is converted into an electronic signal. Signals are processed and compared to a reference level, and when two consecutive signals exceeding the reference level are received within a specified period of time, the time delay circuit triggers the 5CR switch to activate the alarm signal. The status LEDs light



continuously during the alarm period.

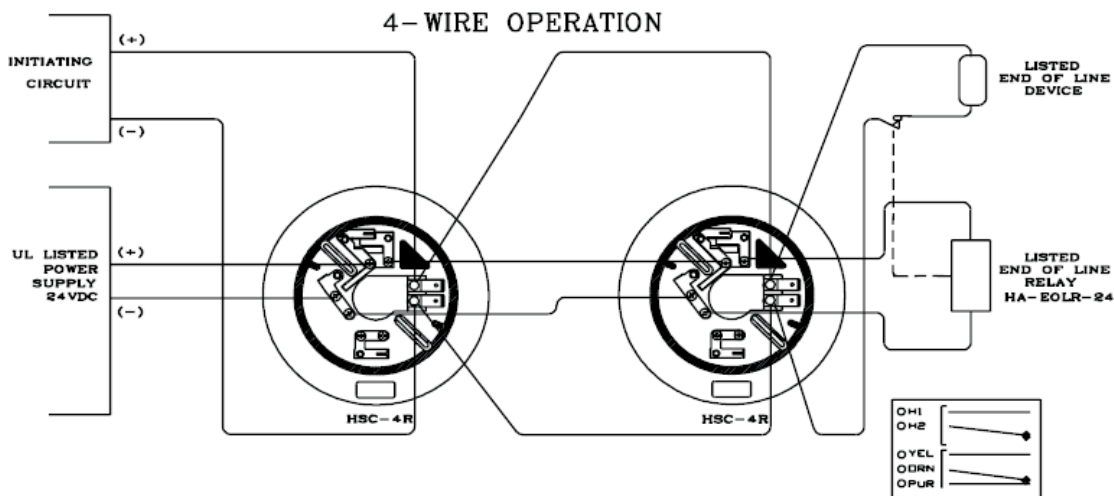
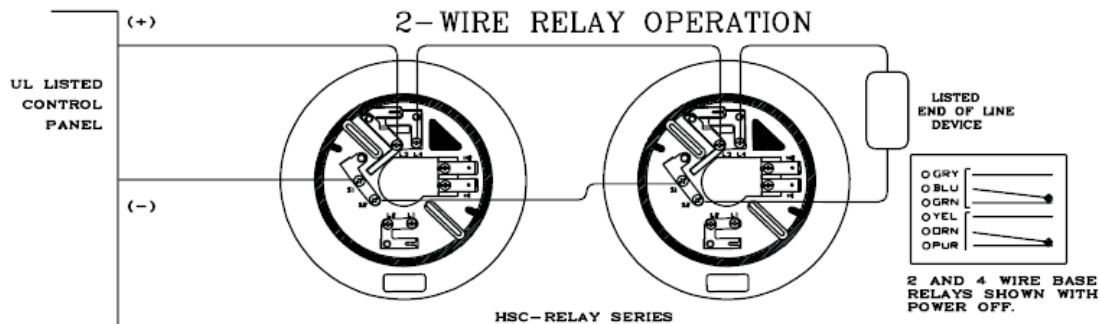
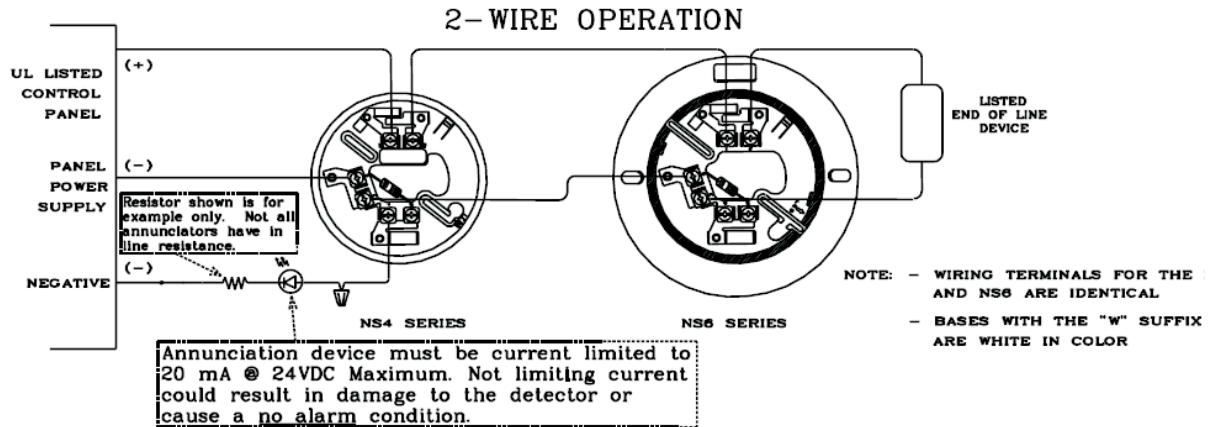
**Features**

- Low profile, 1.8" high (with base)
- 2 or 4 wire base compatibility, relay bases available
- Highly stable operation RF/Transient protection
- Low standby current, 45uA at 24VDC
- Two built-in power/sensitivity/supervision alarm LEDs
- Non-directional smoke chamber
- Vandal resistant security locking feature
- Built-in magnetic go/no go detector test feature
- Removable smoke labyrinth for cleaning or replacement

**Ordering Information**

Model Number	Part Number	Description
SLR-24V	SLR-24V	Photoelectric Smoke Detector
NS6-221	349-0995	6" 2 wire smoke detector base for SLR and SIJ detector heads
NS4-221	349-0994	4" 2 wire smoke detector base for SLR and SIJ detector heads
HSC-4R	349-0493	6" 4 wire smoke detector base with relay, 24Vdc

- Automatic Sensitivity window verification function
- meets outlined requirements in NFPA72, Chapter 2 & 7, Inspection, Testing and Maintenance.
- Compatible with SIJ-24 ionization detectors
- Backwards compatible with Hochiki SLK and SIH detectors



NOTICE: The information contained in this document is intended only as a summary and is subject to change without notice. The devices described in this document have specific instruction sheets which cover various technical, limitation and liability information. Copies of these instruction sheets and the General Product Warning and Limitations Document, which also contains important information are provided with the product and are available from Harrington Signal Inc. Fire Alarm. Information contained in these documents should be consulted before specifying or using the product. For further information or assistance concerning particular problems contact Harrington Signal Inc. Harrington Signal Inc. Fire Alarm reserves the right to change specifications without notice.