

SLV-24N PHOTOELECTRIC SMOKE DETECTOR



Shown without base

STANDARD FEATURES

- * Low profile, 2.0" high (with base)
- * 2 or 4 wire base compatibility, relay bases available
- * Highly stable operation, RF/Transient protection
- * Low standby current, 45 μ A at 24VDC
- * Two built-in power/sensitivity supervision/alarm LEDs
- * Non-directional smoke chamber
- * Removable smoke labyrinth for cleaning or replacement
- * Automatic Sensitivity window verification function meets outlined requirements in NFPA 72, Chapter 10 Inspection, Testing and Maintenance.
- * Compatible with SIJ-24 ionization detectors
- * Backwards compatible with Hochiki SLK/SLR-24N and SIH detectors
- * Highly resistant to false alarm caused by steam

SPECIFICATIONS

Light Source:	GaAlAs frared Emitting Diode
Rated Voltage:	17.7 - 30.0 VDC
Working Voltage:	15.0 - 33.0 VDC
Maximum Voltage:	42 VDC
Supervisory Current:	45 μ A @ 24 VDC
Surge Current:	160 μ A max @24Vdc
Alarm Current:	150mA max @24Vdc
Air Velocity Range:	0-4000 fpm
Ambient Temperature:	0°C to 49°C
Color & Case Material:	Bone PC/ABS Blend
Sensitivity Test Feature:	Automatic Sensitivity
Sensitivity Test Feature:	Auto Sensitivity win- dow verification test
Sensitivity Range:	0.5 – 2.68%/ft
Mounting:	Refer to NS Conven- tional Detector Base Data Sheet

APPLICATIONS

The SLV-24N can be used in all areas where Photoelectric Smoke Detectors are required. The wide range smoke chamber makes the SLV-24N well suited for fires ranging from smoldering to flaming fires

NS-4 Series, NS-6 Series, HSC-4R or HSC-R Style bases may be used with the SLV-24N. 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 SLV-24N 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 SCR switch to activate the alarm signal. The status LEDs light continuously during the alarm period.

PRODUCT LISTINGS

Underwriters Laboratories: S1383
Factory Mutual: 3007144
CSFM #: 7272-0410:107

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