



Photoelectric Smoke and Smoke/Heat Detectors



The SLR Series are suited for commercial and residential applications. All-in-one units and separate base and head units make the SLR series a flexible smoke detection option.

- Unrivaled smoke detection performance backed by years of fire detection engineering expertise
- Units work in any application where photoelectric smoke or heat detectors are specified
- Automatic Sensitivity window verification meets NFPA 72 inspection, testing, and maintenance requirements
- Extremely low profile and clean, decorative lines are suited for architecturally sensitive environments

SLR SERIES PHOTOELECTRIC SMOKE DETECTORS

DETECTOR FEATURES

- Removable smoke chamber for cleaning or replacement
- Superior RF and transient voltage protection
- Two built-in Status/Sensitivity/Alarm LEDs
- Non-directional smoke chamber
- Tamper-resistant security locking feature

SLR-835B

- Direct 2-wire unit with trim ring, no base needed
- Choose either 12 VDC or 24 VDC operating voltage
- Available in ivory
- Low profile - only 2" high

SLR-835BH

- Direct 2-wire unit with trim ring, no base needed
- Choose either 12 VDC or 24 VDC operating voltage
- Available in ivory
- Low profile - only 2.375" high
- 135° F latching heat sensor

NS6-100W BASE FEATURES

- Compatible with SLR-835 or SLR-835H detector heads
- Base and heads available in white PC/ABS blend
- 6" diameter base
- Optional trim ring
- 2-wire relay detector

SLR-835 HEAD

- 12 VDC or 24 VDC operating voltage
- Low profile - only 1.8" high with base
- For use with the NS6-100W Base

SLR-835H HEAD

- 135° F latching heat sensor
- 12 VDC or 24 VDC operating voltage
- Low profile - only 2.2" high with base
- For use with the NS6-100W Base

SLR SERIES DETECTORS

BUILT-IN STATUS/ALARM LED

The SLR Series Detectors use two built-in, bi-color LEDs to indicate status. In a normal condition, the LEDs flash *Green* every three seconds. When the detector recognizes that its sensitivity has drifted outside the UL listed sensitivity window, the LEDs flash *Red* every three seconds. When the detector senses smoke and goes into alarm, the status LEDs latch on Red. The LEDs stay on until the detector is reset.

ADVANCED SMOKE CHAMBER TECHNOLOGY

The smoke chamber in the SLR Series Detectors consist of a pulsing LED light source and a silicon photo diode receiving element. During normal operation, the receiving element receives no light from the light source and remains in a normal condition. In the event of a fire, smoke particles enter the smoke chamber and cause light from the LED light source to reflect into the receiving element. The received light is processed by the detector circuitry and indicated as an alarm to the Fire Alarm Control Panel (FACP).

SUPERIOR HEAT DETECTION

The SLR-835H and SLR-835BH add heat detection capabilities to the smoke detection features. The wide range chamber allow these photoelectric heat smoke detectors to quickly respond to both smoldering ember or flaming fires. Working together with the smoke detection capabilities, when a fire reaches 135° F the latching heat sensor immediately sets off the alarm.

SLR-835B

This direct-wire detector is a complete single unit that mounts in all areas where photoelectric smoke detectors are required. Its compact size and stylish design fit in to any environment.

SLR-835BH

A single unit direct-wire photoelectric heat smoke detector that mounts in all areas where both smoke and heat fire detection is required. Rated to detect heat from fires at 135° F or higher. The heat detector is self-restoring and makes testing quick and easy.

NS6-100W BASE

A six-inch base unit for use with the SLR-835 photoelectric smoke detector head or SLR-835H photoelectric smoke heat detector head. An optional trim ring can be installed as required.

SLR-835 HEAD

Connected to the NS6-100W base, this detector provides quality photoelectric smoke detection in any environment. Suitable for business, public areas, and homes.

SLR-835H HEAD

Using the NS6-100W base this unit not only provides photoelectric smoke detection but adds heat sensitivity for even more security. This self-restoring heat detector can detect fires radiating 135° F or higher. Place the SLR-835H in all areas where both smoke and heat fire detection is required.

ENGINEERING SPECIFICATIONS

The contractor shall furnish and install where indicated on the plans, DMP/Hochiki Model SLR-835B Photoelectric Smoke Detectors or DMP/Hochiki Model SLR-835 Photoelectric/Heat Smoke Detector mounted on a DMP/Hochiki Model NS6-100W base. The detector heads shall be listed compatible with UL listed fire alarm panels.

The smoke detector shall have a flashing status LED for visual supervision. When the detector is actuated, the flashing LED shall latch at full brilliance. The detector may be reset by actuating the fire alarm control panel reset switch.

The detector shall have a sensitivity window verification feature.

The vandal resistant, security locking feature shall be used in those areas as indicated on the drawing. The locking feature shall be field-selectable.

It shall be possible to perform a functional test of the detector without the need to generate smoke. The method shall simulate the effects of products of combustion in the chamber to ensure testing of detector circuits.

Voltage and RF transient suppression techniques shall be employed to minimize false alarm potential.

SLR SERIES SPECIFICATIONS

Average Standby Current	38mA ave. @ 12 VDC 55mA ave. @ 24 VDC
Alarm Current	150mA max.
Alarm Trip Current	6mA minimum
Operating Voltage	
Nominal	12 VDC or 24 VDC
Working	8.0 to 35.0 VDC
Ambient Temperature	32° F to 120° F

SLR-835B/SLR-835BH

835BH Heat Sensor	135° F
Compatibility Identifier	HD-6

SLR-835/SLR-835H HEADS

835H Heat Sensor	135° F
Compatibility Identifier	HD-3

LISTINGS AND APPROVALS

Underwriters Laboratory (UL) Listed
California State Fire Marshal (CSFM)
For additional information, access www.dmp.com and select Compliance.

PANEL COMPATIBILITY

SLR-835B/SLR-835BH

- XR500 Series Command Processor™ Panel – Requires 725 Module
- XR2500F Addressable Fire Alarm Control Panel – Requires 725 Module
- XR100 Series Command Processor™ Panel – Requires 725 Module
- XR5 Fire Command™ Panel
- XRSuper6, XR20, or XR40 Command Processor™ Panel
- XR200 or XR200-485 Command Processor™ Panel

NS6-100W with SLR-835 Head or SLR-835H Head

- XR500 Series Command Processor™ Panel
- XR2500F Addressable Fire Alarm Control Panel
- XR100 Series Command Processor™ Panel
- XR200 or XR200-485 Command Processor™ Panel



800-641-4282

www.dmp.com

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