



RHA

ANALOG RATE-OF-RISE HEAT DETECTOR



P/N 99235



Features

- Adjustable fixed 135° to 174° Fahrenheit
- Rate-of-Rise Feature with 10-12°F per minute detection
- LEDs for 360° viewing
- Low Profile
- Reliable Detection Technology
- For JFS-A Series control panels or JFS-IP Series control panels using Nohmi protocol

Description

The combination Rate of Rise/Fixed Temperature Heat Sensor (RHA) is a listed Analog/Addressable combination temperature heat sensor compatible with any fire alarm control panel that has the Potter/Nohmi protocol. The heat sensing portion utilizes a proven thermistor for accurate and reliable heat detection. The sensor and base (not included) are made of a durable plastic in an eggshell white (off white) to blend in with the ceiling.

The RHA is UL and cUL listed with a selectable fixed temperature point from 135° to 174° Fahrenheit and a rate-of-rise feature. The rate-of-rise operates when the temperature increases. The heat sensor is ideal for installations needing the earlier heat detection.

The RHA has two LEDs that allow for 360° viewing. The sensor is compatible with any of the Potter/Nohmi bases and simply twists on. The RHA is addressed using the hand held programmer or the control panel addressing function.

Spacing

The RHA spacing is dependent on the alarm set-point. The unit is listed from 135°F to 174°F. However as the temperature setting increases, the spacing decreases.

Detector Spacing	
Alarm Set-Point	FHA Spacing
135 to 170 °F (57 to 76 °C)	Max. 50 ft
171 to 174 °F (77 to 79 °C)	Max. 15 ft

Setting the Address

Each addressable module, smoke sensor, heat detector and combination sensor/detector must have the address set before connecting the device to the SLC loop. The address is set using the hand held device programmer or the addressing feature on the control panel.

Before connecting a device to the SLC loop, take the following precautions to prevent potential damage to SLC or device. Verify the following:

1. Power to the device is removed.
2. Field wiring is correctly installed.
3. Field wiring has no open or short circuits.

Document discrepancies and notify appropriate personnel.



Operation

The RHA is an analog/addressable sensor that uses one address on the Signaling Line Circuit (SLC) of a compatible fire alarm control panel. The unit communicates with the control panel as it is polled. The LEDs flash every time the unit is polled and they will latch steady if the unit is in an active status.

The RHA is a single sensor that may be used in a wide variety of applications for property protection. The RHA has a the rate of rise heat detection to provide detection of an escalating fire. The unit has a sleek design and low profile for pleasing aesthetics. The temperature sensor is protected within the mold of the unit to prevent accidental damage.

Specifications			
Working voltage range	22.0 to 24.0 V	Start-up time	Max. 1 sec.
Standby current (*)	250 µA	Maximum number of addresses per zone	127
Alarm indicator	2 LEDs	Maximum number of lighted indicators in alarm per zone	13
Alarm indicator current	1.2 mA DC	Color	Eggshell White
Alarm set-point range	135 to 174°F / 57 to 79°C	Weight (without base)	73g (2.57oz)
Rate-of-Rise	12 to 15°F	Dimensions (without base)	Height: 1.50 in (38 mm)
Installation temperature range	32 to 100°F / 0 to 38°C		Diameter: 4.0 inches (99 mm)
Operating relative humidity range	0% to 93% (Non-condensing)	Approvals / Listings	UL, ULC, CSFM, MEA

Compatible Bases

All bases will mount on a single gang, double gang, octagon, 4" square or mud ring electrical box.

Ordering Information		
Model Number	Description	P/N
RHA	Analog Rate-of-Rise Heat Detector	99235
AB-6	6" Standard Analog Base	99234
AIB	Analog Isolator Base	99233
ARB	Analog Relay Base	99231

Note: Approvals/Listings maintained by and manufactured by Potter Electric Signal Company.

The seller makes no warranties, express or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose, except as expressly stated in the seller's sales contract or sales acknowledgment form. Every attempt is made to keep our product information up-to-date and accurate. All specific applications cannot be covered, nor can all requirements be anticipated. All specifications are subject to change without notice.



1102 Rupcich Drive
 Millennium Park
 Crown Point, IN 46307
 TEL: (219) 663-1600 FAX: (219) 663-4562
 e-mail: info@janusfiresystems.com
 www.janusfiresystems.com