

# FST-851AUS Series

## Thermal (Heat) Detectors



Intelligent/Addressable Devices

### GENERAL

Notifier FST-851AUS Series intelligent plug-in thermal detectors with integral communication has features that surpass conventional detectors. Point ID capability allows each detector's address to be set with decade address switches, providing exact detector locations. FST-851AUS Series thermal detectors use an thermistor sensing circuit to produce 57°C fixed-temperature (FST-851AUS) and rate-of-rise thermal detection (FST-851RAUS) and FST-851H provides fixed high-temperature detection at 88°C. These thermal detectors provide effective, intelligent property protection in a variety of applications. FST-851AUS Series detectors are compatible with Notifier Onyx and CLIP series Fire Alarm Control Panels (FACPs).

FlashScan® is a communication protocol developed by Notifier that greatly enhances the speed of communication between analogue intelligent devices and certain NOTIFIER systems. Intelligent devices communicate in a grouped fashion. If one of the devices within the group has new information, the panel's CPU stops the group poll and concentrates on single points. The net effect is response speed greater than five times that of earlier designs.

### FEATURES

- Sleek, low-profile stylish design.
- Thermistor technology for fast response
- Rate-of-rise model (FST-851RAUS), 8.3°C per minute
- Fixed temperature at 57°C; high-temperature model fixed at 88°C
- Compatible with FlashScan® and CLIP protocol systems
- Rotary, decimal addressing (1-99 on CLIP systems, 1-159 on FlashScan systems). Visible LEDs "blink" every time the unit is addressed
- 360°-field viewing angle of the visual alarm indicators (two bi-color LEDs). LEDs blink green in Normal condition and turn on steady red in Alarm.
- Integral communications and built-in device-type identification
- Built-in functional test switch activated by external magnet
- Walk test with address display (an address of 121 will blink the detector LED 12-(pause)-1)
- Low standby current



**FST-851RAUS in B501AUS base**

- Built-in tamper-resistant feature
- Sealed against back pressure
- Plugs into separate base for ease of installation and maintenance
- Separate base allows interchange of photoelectric, ionization, thermal and multi-criteria sensors

### AGENCY LISTINGS AND APPROVALS

These listings and approvals apply to the models specified in this document. In some cases, certain modules or applications may not be listed by certain approval agencies, or listing may be in process. Consult systems consultant for latest listing status.

- AS1603.2 -1997
- ActivFire certificate # afp-1613 (FST-851AUS); afp-1614 (FST-851RAUS); afp-3010 (FST-851H)

## PRODUCT LINE INFORMATION

FST-851AUS: Intelligent thermal detector. Must be mounted on one of the bases listed below

FST-851RAUS: Same as FST-851AUS with rate-of-rise feature

FST-851H: Intelligent high-temperature thermal detector. Must be mounted on one of the bases listed below

### Bases

B501AUS: Standard 100mm detector base for intelligent detectors.

B524LEFT: 100mm detector base for intelligent detectors with SLC isolator function for short circuit

NFX Series sounder bases: Addressable sounder base (CLIP protocol)

### Accessories

XR2B: Detector removal tool. Allows installation and/or removal of FlashScan® Series detector heads from base in high ceiling installations

REM-IND Series Remote Indicators: Remote LED indicators.

SMK-400: Surface mount box for B501AUS

M02-09-00: Test magnet with telescopic handle

## SPECIFICATIONS

Size: 5.3cm high, 10.4 cm diameter when installed on B501AUS

Shipping weight: 137g

Thermal sensitivity: Fixed-temperature set point 57°C, rate-of-rise detection 8.3°C per minute, high temperature heat 88°C

*NOTE: Some FACP may provide ability for thermal sensitivity to be adjusted within FACP configuration.*

### Electrical Specifications

Voltage range: 415 - 32 volts DC peak

Standby Current (max. avg.): 300uA @ 24VDC (one communication every 5 seconds with LED enabled)

LED Current: 6.5mA @ 24VDC with LED on

### Temperature and Humidity

Operating Temperature range: FST-851AUS Series, FST-851RAUS and FST-851AUS: -10°C to 38°C ; FST-851H: -20°C to 66°C .

Relative humidity: 10% - 93% non-condensing

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QUALITY SYSTEMS

This document is not intended for installation purposes. We try to keep our product information up-to-date and accurate. We cannot cover all specific applications or anticipate all requirements. All specifications are subject to change without notice.

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