

# FST-851AUS Series

## Thermal (Heat) Detectors



Intelligent/Addressable Devices

### General

Notifier FST-851 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-851 Series thermal detectors use an innovative thermistor sensing circuit to produce fixed-temperature (FST-851) and rate-of-rise thermal detection (FST-851R).

These thermal detectors provide effective, intelligent property protection in a variety of applications. FST-851 Series detectors are compatible with Notifier intelligent Fire Alarm Control Panels.

FlashScan® is a communication protocol developed by Notifier Engineering 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
- State-of-the-art thermistor technology for fast response
- Rate-of-rise model (FST-851R), 8.3°C per minute
- Factory preset at 63°C
- Compatible with FlashScan® and CLIP protocol systems
- Direct dial entry of address 01-159 for FlashScan® loops, 01-99 CLIP mode loops



- 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
- Remote test feature from the panel
- 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
- Backward-compatible
- 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 and thermal sensors

### Approvals:

CSIRO ActivFire listed to  
AS 1603.2 - 1997 (afp - 1613)

## Specifications:

<b>Sensitivity Fixed:</b>	43°C to 88°C variable (Default 63°C).
<b>Sensitivity Rate-of-Rise:</b>	63°C or an increase of greater than 8.3°C/min.
<b>Operating Voltage Range:</b>	15 VDC to 32 VDC
<b>Standby Current:</b>	300 µA @ 24 VDC (one communication every 5 seconds with LED blink enabled).
<b>Maximum Alarm Current (LED On):</b>	6.5 mA @ 24 VDC.
<b>Operating Humidity Range:</b>	10% to 93% Relative humidity (Non-condensing).
<b>Installation Temperature Range:</b>	-10° C to 49° C.
<b>Height:</b>	69 mm installed in B501 base.
<b>Diameter:</b>	104 mm installed in B501 base.

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