



ACTIVE FIRE PROTECTION-EQUIPMENT LISTING SCHEME

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LISTING NUMBER

**afp - 1613**

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## PRODUCT LISTING DATA SHEET (Active Fire Protection Equipment)

### Product designation

#### Notifier, Model FST-851AUS, Type B heat detector

(Refer to the Technical Specification section of this document for further specific detail)

### Supplier

#### Notifier Inertia

9 Columbia Court, Norwest Business Park, BAULKHAM HILLS, NSW, AUSTRALIA, 2153

### Manufacturer

#### System Sensor

3825 Ohio Avenue, ST CHARLES, IL., UNITED STATES, 60174

### Supplier's description

The Notifier, Model FST-851AUS, Type B heat detector is an analogue addressable resetting type of heat detector. The detector utilises a negative temperature coefficient thermistor as the heat sensing element. The thermistor senses the ambient temperature and transmits a digital signal representation of the sensed temperature value to the control and indicating equipment (CIE). Software in the CIE interprets the returned signal and may initiate an alarm state if the returned signal exceeds a preset level or other pre-determined response (normal operation, fault, or pre-alarm).

When the output from the detector reaches the CIE alarm threshold, the CIE will initiate an alarm condition resulting in the two detector LED indicators turning red in the latched state. Acknowledgment of the alarm and resetting of the CIE is required to return the detector to the quiescent state.

The detector may be tested in-situ by using a test magnet to activate the test feature or a hot air source applied at 15 cm from the detector to prevent damage to the cover. Once activated, the detector must be reset at the CIE.

The Notifier, Model FST-851AUS, Type B heat detector will support either FlashScan® or CLIP (Classic Loop Interface Protocol). FlashScan® is a communication protocol developed by Notifier Engineering that greatly enhances the speed of communication between analogue intelligent devices and certain Notifier systems.

### Conformance criteria and evaluation

The Notifier, Model FST-851AUS, Type B heat detector has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 1603.1-1997, 'Automatic fire detection and alarm systems - Heat detectors' incl. Amdt 1 (August 1998).

Certification/listing is subject to ActivFire Scheme terms and conditions as applicable to the designated registrant and supplier.



This product listing data sheet should be read in conjunction with the general requirements of the terms and conditions of listing under the ActivFire Scheme.

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Executive Officer

### Limitations/conditions of conformance

Limitations/conditions of conformance, where identified on this Product Listing Data Sheet, are derived from qualifications within the report of the testing agency and/or other related technical documentation. It is recommended that all details with respect to design, assembly and installation instructions and restrictions should be checked against the supplier's/manufacturer's current technical manual/data sheets and the requirements of the Authority having Jurisdiction.

Specified limitations/conditions, determined from the evaluation for conformity, include the following.

- i. Use with the Notifier, Model AFP2800, CIE when the CIE detector sensitivity setting is set at 3.
- ii. Compatibility of this fire detector and its base assembly with new or existing control and indicating equipment should be verified prior to installation.

### Technical specification

The following details are a representative extract of the technical specification for the Notifier, Model FST-851AUS, Type B heat detector and may be subject to change. Complete and current details should be determined from the designated supplier's/manufacturer's technical manual/data sheets.

**Operating voltage range:** 15 to 32 Vdc  
**Quiescent current:** 300 µA @ 24 Vdc  
 (one communication every 5 seconds with LED blink enabled)  
**Alarm current:** 6.5 mA @ 24 Vdc  
**Fixed temperature alarm point:** 63.1°C  
**Operating temperature range:** -10°C to +38°C  
**Height:** 51mm (installed on B501 base assembly)  
**Diameter:** 104 mm

Tested base designation	Base + detector circuit type
Notifier, Model B501	Analogue Addressable
System Sensor, Model B524IEFT-1 (isolator base)	Analogue Addressable
Notifier, Model ABS32/W integrated detector base sounder with LPBW (mounting/wiring base)	Analogue Addressable
Notifier, Model ABS32/W-I integrated detector base sounder (with isolator) with LPBW (mounting/wiring base)	Analogue Addressable

### Supplementary information

Nil supplementary information.