



ACTIVE FIRE PROTECTION-EQUIPMENT LISTING SCHEME

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**afp - 1239**

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

### Product designation

#### **Simplex, Model 4098-9621EA, Type D heat detector**

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

### Supplier

#### **Simplex Fire Products**

47 Gilby Road, MOUNT WAVERLEY, VIC, AUSTRALIA, 3149

### Manufacturer

#### **Simplex Time Recorder Co.**

Simplex Plaza, GARDNER, MA, USA, 01441-0001

### Supplier's description

The Simplex, Model 4098-9621EA, Type D heat detector comprises of electronic circuitry and a mechanical package that is designed to sense the rate of rise of the air temperature in an expedient and reliable fashion. Upon detection of an abnormal rate of rise in air temperature, the electronics indicate an alarm by increasing its amount of current draw from the monitor zone the detector is connected to. In the alarm state, the integral LED will turned ON and remain in the steady condition until the supply power is momentarily interrupted and the conditions causing the alarm state have been removed.

The Simplex, Model 4098-9621EA, Type D heat detector is connected to the Control and Indicating Equipment via a two-wire loop to a conventional base assembly.

### Conformance criteria and evaluation

The Simplex, Model 4098-9621EA, Type D heat detector complies with the requirements of Australian Standard AS 1603.1-1997, including amendment number 1, 'Automatic fire detection & alarm systems, Heat detectors'.

Listing is subject to ActivFire Scheme terms and conditions as applicable to the designated registrant and supplier.

### 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 restrictions should be checked against the designated supplier's/maker's current technical manual/data sheets and the requirements of the Authority having Jurisdiction.**

The Simplex, Model 4098-9621EA, Type D heat detector met the requirements of AS 1603.1-1997, including amendment number 1, when the minimum alarm current from the control and indicating equipment exceeds 6 mA.

Compatibility of the detector and base with new or existing control and indicating equipment should be confirmed prior to installation.



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



### Technical specification

The following details are a representative extract of the technical specification for the Simplex, Model 4098-9621EA, Type D 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.

<b>Operating temperature range:</b>	88°C to 132°C
<b>Operating mode:</b>	Resetting - fixed temperature
<b>Operating voltage range:</b>	11 to 32 Vdc
<b>Input ripple voltage:</b>	30%
<b>Supervisory current:</b>	80 µA (typical) 100 µA (maximum)
<b>Alarm current:</b>	40 mA (typical) 80 mA (maximum)
<b>Humidity range:</b>	10 to 95%RH (within operating temperature range)

Tested Base Designation	Base + Detector Circuit Type
Simplex, Model 4098-9788EA	Conventional

### Supplementary information

#### Base Assembly 4098-9788EA

Typical wiring connection to base assembly

Terminal	Connection
1 (+)	(+) Zone In Connection
2 (+)	(+) Zone Out Connection
3 (R)	Remote LED Connection
4 (-)	(-) Zone Connection