



# Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
<b>afp - 1254</b>	19-Nov-1999	Number 12	Issue date 1-May-2018	30-Apr-2019

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## Product designation

**Simplex, Model 4098-9603EA, nom. sens. (S)=0.4 MIC X, ionisation smoke detector**

(Refer to the Schedule/enclosures for further specified details)

## Agent/distributor

Simplex Fire Products  
47 Gilby Road, MOUNT WAVERLEY, VIC, AUSTRALIA, 3149

## Registrant

Johnson Controls  
17 Mary Muller Drive, HILLSBOROUGH, CHRISTCHURCH, NEW ZEALAND, 8022

### Producer

Simplex Time Recorder Co.  
Simplex Plaza, GARDNER, MA, UNITED STATES, 01441-0001

## Conformance criteria and evaluation

The Simplex, Model 4098-9603EA, nom. sens. (S)=0.4 MIC X, ionisation smoke detector has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 1603.2-1997, 'Automatic fire detection and alarm systems - Point type smoke detectors' incl. Amdt 1 (August 1998).

## Limitations/conditions of conformance

Limitations/conditions of conformance, where identified on this certificate, are derived from qualifications from evaluation(s) for conformity and/or other related technical documentation. All details with respect to design, assembly and installation instructions and restrictions should be checked against the producer'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. Compatibility of this fire detector and its base assembly with new or existing control and indicating equipment should be verified prior to installation.

This certification is issued within the scope of CSIRO Verification Services – Rules governing ActivFire Scheme and is valid only for the product(s) as submitted for evaluation and verification of conformity, subject to the following conditions.

- Reference to details, limitations and requirements, where documented as a schedule/enclosure with this certificate.
- The Registrant is responsible for their attestation of conformity and ensuring that on-going production complies with the conformance criteria defined in this certificate.
- This certificate will not be valid if any changes or modifications are made to the product which have not been notified and validated by CSIRO Verification Services.
- This certificate is subject to periodical re-validation upon verification that all requirements, as determined by the conformity assessment body, continue to be satisfactorily met by the Registrant.
- This certificate may only be reproduced in its published form, without modification and inclusive of all schedules/enclosures.
- Any changes, errors or omissions, must be submitted in writing and if necessary or requested, substantiated with relevant evidence.
- Any representations, such as advertising or other marketing related activities or articles shall reflect the correct contents of this certificate and conform with all relevant trade practices and consumer protection legislation and regulations.
- Any terms or conditions of use as applicable to content and documentation as published or accessed through web sites administered by the CSIRO Verification Services.

Issued by

David Whittaker  
Executive Officer – ActivFire Scheme



# Schedule to Certificate of Conformity

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## Producer's description

The Simplex, Model 4098-9603EA, nom. sens. (S)=0.4 MIC X, ionisation smoke detector is a single source, two chamber ionisation smoke detector. The smoke detector is most sensitive to small particles generated from a flaming fire. It is less responsive to larger particles generated by a smouldering fire. The two chambers in the detector consist of a reference chamber and a sensing chamber. The reference chamber in the smoke detector contains a small, low level of alpha particle radiation source, Americium 241 (0.9 µC). The sensing chamber is open to air flow via baffles that restrict high velocity air from blowing through too rapidly.

When the smoke density reaches a pre-determined level, the detector's circuitry will cause an alarm condition. The sensitivity of the smoke detector is fixed at the point of manufacture.

The smoke detector has one integral LED that protrudes from the cover moulding. The LED flashes red when in the quiescent state and is permanently red in colour when in the alarm condition. Once the detector is in the alarm state, interruption of the power supply is required to reset the detector.

Electrical connection to the smoke detector from the control and indicating equipment is achieved through the Simplex mounting base assembly.

## Technical specification

The following details are a representative extract of the technical specification for the Simplex, Model 4098-9603EA, nom. sens. (S)=0.4 MIC X, ionisation smoke detector and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

<b>Nominal sensitivity (S):</b>	0.4 MIC X
<b>Radioactive source:</b>	0.9 microcurie, Americium 241
<b>Operating voltage range:</b>	8.5 - 33 Vdc
<b>Quiescent current:</b>	20 to 100 µA @ 25°C
<b>Alarm current:</b>	5 mA @ 6 Vdc 86 mA @ 12 Vdc
<b>Operating temperature range:</b>	0°C to 50°C
<b>Humidity range:</b>	10 to 95% (non-condensating).
<b>Dimensions:</b>	Approximately 104 mm in diameter Approximately 50 mm in height when connected to the base assembly

Tested base designation	Base + detector circuit type
Simplex, Model 4098-9788EA	Conventional

## Supplementary information

### Simplex base assembly 4098-9788EA

Typical wiring connection to base assembly

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