



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 1694	18-Jun-2004	Number 15	Issue date 1-May-2020	30-Apr-2021

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Product designation

Tyco, Model D51B, (with Simplex, Model 4098-9601EA photoelectric smoke detector), duct sampling unit

(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

Tyco Safety Products
100 Simplex Drive, WESTMINSTER, MA, UNITED STATES, 01441-0001

Conformance criteria and evaluation

The Tyco, Model D51B, (with Simplex, Model 4098-9601EA photoelectric smoke detector), duct sampling unit has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 1603.13-1998, 'Automatic fire detection and alarm systems - Duct sampling units'.

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. The operating temperature range is to be 0° to +50° C
- ii. The minimum pressure differential exceeds 2.8 Pa.
- iii. The smoke detector is installed in an indoor dry environment.
- iv. Compatibility of this fire detector and its base assembly with new or existing control and indicating equipment should be verified prior to installation.

Issued by

David Whittaker
Executive Officer – ActivFire Scheme



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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.

Schedule to Certificate of Conformity

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Producer's description

The Tyco, Model D51B, (with Simplex, Model 4098-9601EA photoelectric smoke detector), duct sampling unit is an integrated housing and detector for detecting smoke in air-conditioning ducts. The detection system consists of a sensor and an interfacing PCB for field wiring termination.

The Tyco, Model D51B, (with Simplex, Model 4098-9601EA photoelectric smoke detector), duct sampling unit consists of the following components:

- Tyco, D51B housing assembly.
- Simplex, Model 4098-9601EA photoelectric smoke detector.
- Simplex, Model 4098-9788EA conventional base (collective).
- Junction box and lid with field wiring terminals.
- Tyco, Model D51T3 Sampling tube (cut to appropriate length).

Technical specification

The following details are a representative extract of the technical specification for the Tyco, Model D51B, (with Simplex, Model 4098-9601EA photoelectric smoke detector), duct sampling unit and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Smoke detector specification

Sensitivity (Nominal S Value):	6% obs./m
Operating voltages:	8.5 Vdc to 33.0 Vdc
Quiescent current/voltage:	50 μ A @ 8.5 Vdc 120 μ A @ 33.0 Vdc
Alarm current/voltage:	5 mA @ 4.7 Vdc 86 mA @ 10.8 Vdc (Must be externally limited)
Operating temperature range:	0°C to 50°C
Humidity range:	10% to 95%RH (non condensing over temperature range)
Reset time:	22 Seconds (maximum)

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