



ACTIVE FIRE PROTECTION-EQUIPMENT LISTING SCHEME

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

Product designation

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

(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

Tyco Safety Products

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

Supplier'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).

Conformance criteria and evaluation

The Tyco, Model D51B, (with Simplex, Model 4098-9601EA photoelectric smoke detector), duct sampling unit complies with the requirements of Australian Standard AS 1603.13-1998, 'Automatic fire detection and alarms systems, Duct sampling units'.

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

The Tyco, Model D51B, (with Simplex, Model 4098-9601EA photoelectric smoke detector), duct sampling unit met the requirements of AS 1603.13-1998 when:

- the operating temperature range is 0° to +50° C
- the minimum pressure differential exceeds 2.8 Pa.
- the smoke detector is installed in an indoor dry environment.

Compatibility of the Tyco, Model D51B, (with Simplex, Model 4098-9601EA photoelectric smoke detector), duct sampling unit with new or existing control and indicating equipment should be confirmed prior to installation.

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 supplier's/manufacturer'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 µA @ 8.5 Vdc 120 µA @ 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