



ACTIVE FIRE PROTECTION-EQUIPMENT LISTING SCHEME

Commonwealth Scientific and Industrial Research Organisation, Australia
Ph.: 61 3 9252 6000 Fax: 61 3 9252 6011
Web site: <http://www.ActivFire.gov.au> E-mail: info@ActivFire.gov.au

LISTING NUMBER

afp - 1815

Dates: Registration:22-Mar-2006 Page 1 of 3
Version: ..1.4. ..1-Aug-2007
Valid until*:31-Jul-2008

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

Product designation

Tyco, Model 614TC, Type C heat detector

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

Supplier

Tyco Fire & Security

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

Manufacturer

Tyco Safety Products

100 Simplex Drive, WESTMINSTER, MA, USA, 01441-0001

Supplier's description

The Tyco, Model 614TC, Type C heat detector uses a fast response, thermistor based design to provide temperature sensing that quickly, accurately, and consistently identifies when fixed temperatures are exceeded. The fixed temperature sensing thermistor readily tracks the local ambient temperature. This provides fast heat detection for most applications. The Type C detector uses the responses of two thermistors, one thermally delayed, which are then compared to determine the temperature rate-of-rise. This also triggers an alarm condition.

The heat detector has an epoxy encapsulated electronic design with a visible alarm LED. A remote indicator may be connected to the base assembly.

The fixed temperature point is 90°C.

Conformance criteria and evaluation

The Tyco, Model 614TC, Type C 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' including Amdt 1 (August 1998).

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 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. Compatibility of this fire detector 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.

© CSIRO Australia, 2007

Executive Officer

- ii. For installation in other than fully indoor and dry environments refer to the supplier's/manufacturer's installation literature.

Technical specification

The following details are a representative extract of the technical specification for the Tyco, Model 614TC, Type C 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.

Sensor: Type C; fixed temperature point 90°C

Electrical:

Voltage: 11 Vdc to 32 Vdc

Quiescent current @ 24 Vdc: 85 µA

Quiescent current (maximum): 110 µA

Alarm current (maximum): 80 mA (must be externally limited)

Alarm current (minimum): 5 mA

Remote indicator: Tyco E500Mk2

Environmental:

Ambient temperature: -10°C to +75°C

Storage temperature: -10°C to +75°C

Relative humidity: 10% to 95% (non-condensing)

Mechanical specifications of detector including detector base:

Dimensions	Model	
	Minerva MUB	Tyco 5B
Height	50 mm	53 mm
Diameter	109 mm	127 mm
Mass	190 g	174 g

Tested Base Designation	Base + Detector Circuit Type
Tyco, Model 5B	Collective
Minerva, Model Model MUB (M614)	Collective

Supplementary information

Tyco, Models MUB/M614 and 5B Bases:

The base should be fixed so that the park plunger faces toward the door. This ensures the detector LED will be visible from the direction of entry.

Wiring MUB/M614 and 5B Bases:

Terminal	Collective
L	Negative In and Out
L1	Positive In & Remote
L2	Positive Out
R	Negative Remote**