

PRODUCT LISTING DATA SHEET (Active Fire Protection Equipment)

Product designation

Tyco, Model T614C Mk 2, 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 T614C Mk 2, 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. Rate-of-rise detection is determined by comparing two thermistor responses. By combining accurate thermistors with proper physical placement, the patented rate-of-rise detection design achieves a high level of performance not normally available with mechanical detection.

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 T614C Mk 2, Type C heat detector complies 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 restrictions should be checked against the designated supplier's/maker's current technical manual/data sheets and the requirements of the Authority having Jurisdiction.

Compatibility of the Tyco, Model T614C Mk 2, Type C heat detector with new or existing control and indicating equipment should be verified prior to installation.

The Tyco, Model T614C Mk 2, Type C heat detector is intended for indoor, dry environments and is not suitable for use in areas subject to condensing moisture or salt mist.



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.

Technical specification

The following details are a representative extract of the technical specification for the Tyco, Model T614C Mk 2, 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.

Electrical:

Voltage:	11 Vdc to 32 Vdc
Quiescent current @ 24 Vdc:	85 μ A
Quiescent current (maximum):	110 μ A
Alarm current (maximum):	80 mA (must be externally limited)
Alarm current (minimum):	5 mA
Remote indicator:	Tyco E500Mk2

Environmental (Indoor applications only):

Ambient temperature:	-10°C to +75°C
Storage temperature:	-10°C to +75°C
Relative humidity:	10% to 95% (non-condensing)

Mechanical Specifications of T614C including 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 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