



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 1744	24-Feb-2005	Number 16	Issue date 19-May-2020	30-Apr-2021

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Product designation

Tyco, Model T614C Mk 2, Type C heat detector

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

Agent/distributor

Johnson Controls
Level 3, 95 Coventry Street, SOUTHBANK, VIC, AUSTRALIA, 3006

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 T614C Mk 2, 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' 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. Intended for indoor, dry environments and is not suitable for use in areas subject to condensing moisture or salt mist.
- ii. 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



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Producer'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.

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 producer's technical manual/data sheets.

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 (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