



ACTIVE FIRE PROTECTION-EQUIPMENT LISTING SCHEME

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LISTING NUMBER

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

Product designation

Tyco, Model 614CH, combined carbon monoxide, ART 38ppm and heat, Class A1R, fire 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 Electronic Products Group (TEPG)

160 Billet Road, WALTHAMSTOW, LONDON, UNITED KINGDOM, E1T 5DR

Supplier's description

The Tyco, Model 614CH, combined carbon monoxide, ART 38ppm and heat, Class A1R, fire detector forms part of the Tyco 614 series of plug-in detectors for ceiling mounting. The detector is intended for use on collective two-wire circuits on compatible control and indicating equipment.

The Tyco, Model 614CH, combined carbon monoxide, ART 38ppm and heat, Class A1R, fire detector incorporates a Class A1R rate of rise and static response element to detect fires characterised by a high rate of rise of temperature. Additionally, the sensitivity of the carbon monoxide detector is enhanced when a rapid rise in temperature is detected. These extra integrated detection modes allow the fire detector to be used in a wide variety of applications where combined risks mean that CO detection alone may be inadequate.

Conformance criteria and evaluation

The Tyco, Model 614CH, combined carbon monoxide, ART 38ppm and heat, Class A1R, fire detector complies with the relevant requirements of the following criteria.

1. Australian Standard AS 1603.14-2001, 'Automatic fire detection and alarm systems - Point type carbon monoxide (CO) fire detectors'.
2. Australian Standard AS 7240.5-2004, 'Fire detection and alarm systems - Point type heat detectors (ISO 7240-5:2003, MOD)'.

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/manufacturer's current technical manual/data sheets and the requirements of the Authority having Jurisdiction.

Compatibility of the Tyco, Model 614CH, combined carbon monoxide, ART 38ppm and heat, Class A1R, fire detector and base assemblies 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.

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Executive Officer

Technical specification

The following details are a representative extract of the technical specification for the Tyco, Model 614CH, combined carbon monoxide, ART 38ppm and heat, Class A1R, fire detector and may be subject to change. Complete and current details should be determined from the designated supplier's/maker's technical manual/data sheets.

| | |
|---------------------------------|--|
| Operating voltage: | 10 to 33 Vdc |
| Quiescent current: | 70 μ A, typical |
| Alarm Current: | 5 mA to 85 mA (see note 1) |
| Externally powered load: | 50 mA, 28 Vdc maximum |
| Remote indicator: | Tyco E500 Mk2 series |
| Ambient temperature: | 0 deg C to +50 deg C |
| Relative humidity: | 15% to 90% continuous (non-condensing) 10% to 95% intermittent (non-condensing) |

Note:

1. Alarm current must be externally limited.

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

Supplementary information

Nil supplementary information