



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 1299	29-Feb-2000	Number 13	Issue date 26-Apr-2019	30-Apr-2020

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Product designation

Tyco Fire Products, Model ESFR-25: SIN TY9226, 25NS thread x 36.3K(metric), 74°/101°C, solder, storage, ESFR pendent, fast response sprinklers

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

Agent/distributor

Tyco Fire Protection Products
Level 3, 95 Coventry Street, SOUTHBANK, VIC, AUSTRALIA, 3006

Registrant

Tyco Fire Protection Products
Level 3, 95 Coventry Street, SOUTHBANK, VIC, AUSTRALIA, 3006

Producer

Tyco Fire Protection Products
8902 North Interstate 27, LUBBOCK, TX, UNITED STATES, 79403

Conformance criteria and evaluation

The Tyco Fire Products, Model ESFR-25: SIN TY9226, 25NS thread x 36.3K(metric), 74°/101°C, solder, storage, pendent, ESFR sprinklers have been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Underwriters Laboratories - Evaluation and listing, 'UL listing'.

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. The Tyco Fire Products, Model ESFR-25: SIN TY9226, 25NS thread x 36.3K(metric), 74°/101°C, solder, storage, ESFR pendent, fast response sprinklers shall be applied and installed strictly in accordance with the requirements of ULI and FMRC, as detailed in Gem Data Sheet TFP312, dated August 2003. Data Sheets are available on request from Tyco Fire & Building Products.
- ii. In particular, these sprinklers shall not be used in dry-pipe or pre-action type systems, they shall be installed in the pendent position only, and shall be positioned so that the deflector is located at a maximum of 460 mm and a minimum of 150 mm below the ceiling. They must not be shipped or stored where their temperature may exceed 38°C.

Issued by

David Whittaker
Executive Officer – ActivFire Scheme



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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.

Schedule to

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Producer's description

The Tyco Fire Products, Model ESFR-25: SIN TY9226, 25NS thread x 36.3K(metric), 74°/101°C, solder, storage, ESFR pendent, fast response sprinklers are an early suppression fast response type pendent sprinklers with a cast-brass yoke-type frame and a fusible-link and lever type release arrangement. They have been especially-developed for use in open-frame single-row, double-row, multiple-row, and portable rack storage, as well as palletised and solid-piled storage, of most encapsulated, or non-encapsulated, common materials, including cartoned non-expandable plastics, as indicated on Gem Data Sheet TFP312 of August 2003. They are designed for use with storage heights of up to 12.2 metres, and ceiling heights of up to 13.7 metres, and provide the system designer with very favourable hydraulic design and sprinkler placement options which are not offered by competing ESFR sprinklers of lesser K-factor. Other advantages over competing ESFR sprinklers are a greater allowable maximum deflector-to-ceiling distance, and no need for in-rack sprinklers for the above maximum design heights. The unique patented frame design of these sprinklers substantially reduces the frame shadow effects which normally tend to produce non-uniformity in the spray pattern. The pipe thread connection is 1" BSP Taper male, conforming to ISO 7/1.

Technical specification

The following details are a representative extract of the technical specification for the Tyco Fire Products, Model ESFR-25: SIN TY9226, 25NS thread x 36.3K(metric), 74°/101°C, solder, storage, ESFR pendent, fast response sprinklers and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Maximum service pressure:	12.1 bar
K-factor (Metric):	36.3(l/min, kPa)
Connection thread:	1" BSPT male to ISO 7/1
Overall length:	96.8 mm
Overall width:	50.8 mm
Frame material:	Die-cast brass
Deflector material:	Phosphor bronze
Frame and deflector finish:	Natural