



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 6899	25-May-1993	Number 8	Issue date 23-Apr-2014	30-Apr-2015

Product designation

Mack, FS 32 Series, Water Flow Switches
(Refer to the Schedule/enclosures for further specified details)

Agent/distributor

Mack Valves Pty Ltd
30 Burgess Road, BAYSWATER, VIC, AUSTRALIA, 3153

Registrant

Mack Valves Pty Ltd
30 Burgess Road, BAYSWATER, VIC, AUSTRALIA, 3153

Producer

Mack Valves Pty Ltd
30 Burgess Road, BAYSWATER, VIC, AUSTRALIA, 3153

Conformance criteria and evaluation

The Mack, FS 32 Series, Water Flow Switches have been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Specified criteria, 'Specified requirements of the Fire and Accident Underwriters Association of New South Wales'.

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 switch is to be mounted vertically in a horizontal line of pipe. No less than five (5) pipe diameters to be maintained on each side of device.
- ii. This equipment are suitable for use with wet pipe systems only.

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



Schedule to Certificate of Conformity

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Producer's description

The Mack, FS 32 Series, Water Flow Switches are designed to detect sustained flow of water and are intended for application with the fire sprinkler systems. An adjustable time delay model is available to reduce the possibility of false alarms caused by one or more transient flow surges.

Typically the switch can be connected to a Fire Indicator Panel for annunciation of water flow to a zone of fire sprinklers fed via a branch feed main or similar.

Technical specification

The following details are a representative extract of the technical specification for the Mack, FS 32 Series, Water Flow Switches and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Model FS 32 TD

12 Vdc	1 amp switching, Time Delay 2-20 seconds.
24 Vdc	1 amp switching, Time Delay 2-20 seconds.
32 Vdc	1 amp switching, Time Delay 2-20 seconds.
48 Vdc	1 amp switching, Time Delay 2-20 seconds.

Model FS 32 DC

0-115 Vdc 15 watts switching. Does not incorporate time delay but is suitable for use with fire annunciation circuits where a time delay device is incorporated at the Fire Indicator Panel.