



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 1045	27-Jul-1996	Number 9	Issue date 30-Apr-2015	30-Apr-2016

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Product designation

Hochiki, Model SPB-AN, beam type smoke detector

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

Agent/distributor

Fire & Safety Products (A/Asia) Pty. Ltd.
41-45 Richmond Road, KESWICK, SA, AUSTRALIA, 5035

Registrant

Fire & Safety Products (A/Asia) Pty. Ltd.
41-45 Richmond Road, KESWICK, SA, AUSTRALIA, 5035

Producer

Hochiki Corporation
10 - 43, Kamiosaki 2-Chome, SHINAGAWA-KU, TOKYO, JAPAN, 141

Conformance criteria and evaluation

The Hochiki, Model SPB-AN, beam type smoke detector has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. SSL Test Specification FTS-112, Version 4.0, 'Beam type Smoke Detectors'.

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. 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



Schedule to Certificate of Conformity

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Producer's description

The Hochiki, Model SPB-AN, beam type smoke detector is classified as being of the direct type hereby the emitting unit is separate from the receiving unit with the two units mounted at opposite ends of the light path. The infra-red transmitter produces a modulated light beam that is projected onto the infra-red receiver unit which monitors the signal strength of the light beam. An alarm condition is generated when the signal strength of the light beam is reduced to the preset sensitivity level for a period of between 9 to 12 seconds.

Alignment of the beam axis is achieved by an initial physical alignment through a system of sight aperture integrally mounted on the aperture lens body of the transmitter and receiver. A coarse alignment in the horizontal and vertical planes is made using adjustment screws attached to the aperture. The fine adjustment is made electrically where the signal strength is monitored on LEDs.

The Hochiki, Model SPB-AN, beam type smoke detector is mounted on a dedicated bracket. It can be wired as either a 3 or 4 wire system that has EOL resistance and relay output for fault indication. Two output signals, Trouble Alarm and Fire Alarm, are provided.

Technical specification

The following details are a representative extract of the technical specification for the Hochiki, Model SPB-AN, beam type smoke detector and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Sensitivity:	35 to 50 %Obscuration/span
Maximum span:	100 m
Operating voltage:	15 Vdc - 33 Vdc
Nominal voltage:	24 Vdc (Receiver & Transmitter)
Nominal current:	20 mA (Receiver & Transmitter)
Output contacts:	0.5 A
Allowable misalignment angle:	±1° (typical)