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ACTIVE FIRE PROTECTION – PRODUCT CERTIFICATION

Certificate of Conformity

Certificate num.	Registration date	Version Number	Version Issue date	Valid until	Page
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Product designation

Hochiki, Model SLV-AS, photoelectric smoke detector

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

Agent/distributor

Hochiki Australia Pty Ltd
Block Y, Unit 1 Regents Park Estate, 391 Park Road, REGENTS PARK, NSW, AUSTRALIA, 2143

Registrant

Hochiki Australia Pty Ltd
Block Y, Unit 1 Regents Park Estate, 391 Park Road, REGENTS PARK, NSW, AUSTRALIA, 2143

Producer

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

Conformance criteria and evaluation

The Hochiki, Model SLV-AS, photoelectric smoke detector has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 7240.7:2018, 'Fire detection and alarm systems - Part 7: Point-type smoke detectors using scattered light, transmitted light or ionization (ISO 7240-7:2018, MOD)'.

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 smoke 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

Kai Loh
Executive Officer – ActivFire Scheme

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Producer's description

The Hochiki, Model SLV-AS, photoelectric smoke detector uses a photoelectric sensing chamber to detect the presence of smoke. The smoke detector has a two light emitting diodes (LED) mounted on the printed circuit board within the housing, which remains static during normal operation and indicates steady red when the smoke detector is in the alarm condition. Electrical connection to the smoke detector is achieved through the Hochiki, Models YBO-R/4A or YBN-R/4C base assemblies.

This equipment is approximately 100 mm in diameter and has a height of approximately 48 mm when connected to the mounting base assembly.

Technical specification

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

Schedule of variant designations

The following is a schedule of validated variant designations of the certified/listed equipment.

Variant				
Type	**Ident.**	**Description**	**Compatible base models**	**Base + detector circuit type**
Model no.	SLV-AS	photoelectric smoke detector	Hochiki Model YBO-R/4A and Hochiki, Model YBN-R/4C	Conventional

Schedule of properties/characteristics

The following schedule is an extract of physical and operational properties/characteristics of the certified/listed equipment.

Response threshold band:	Band 1
Light source:	Infrared LED
Quiescent state:	
Nominal rated voltage:	24 Vdc
Supervisory current:	35 µA (24 Vdc, 25 °C)
Surge current (maximum):	160 µA (24 Vdc, 25 °C)
Alarm state:	
Maximum voltage:	17.6 V (at 80 mA) at base terminal
Minimum voltage:	8.47 V (at 24 mA) at base terminal
Maximum current:	80 mA (at 25 °C)
Minimum current:	24 mA (at 25 °C)
Maximum alarm latching current:	5 mA (at 25 °C)
Power supply requirements for voltage and current:	
Voltage (Filtered DC) range:	15.0 to 30.0 Vdc
Maximum allowable voltage:	42 Vdc
Maximum current (Alarm state):	80 mA
Waveform:	Filtered DC
Operating temperature range:	-10 °C to +50 °C
Dimensions:	Ø100 mm × 46 mm (h)

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Supplementary information

Schedule of relevant articles

The following schedule is an extract of articles significant and/or related as evidence of conformity.

Reference		Title / description	Date issued (or date validated)	Source
Ident. type	**Ident.**			
Report no.	XF3116/R1	Evaluation for Conformity of the Hochiki, Model SLV-AS photoelectric smoke detector to the requirements of AS 7240.7-2004	14-Mar-2017	CSIRO, Fire System Laboratory, AU
	XF3595/R1	Evaluation for Conformity of the Hochiki Models SLV-AS and SOC-AS3 Photoelectric Smoke Detectors to the requirements of AS 7240.7:2018	18-Sep-2023	
Doc no.	HAUNo.1-2-001/ISS1/MAR17	Hochiki Conventional Photoelectric Smoke Detector SLV-AS Specification HAUNo.1-2-001/ISS1/MAR17 (SLV-AS_Specification_1.pdf)	2-Mar-2017	Hochiki Australia Pty Ltd, NSW, AU