



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 3180	22-Aug-2017	Number 9	Issue date 30-Aug-2023	30-Apr-2024

Page 1 of 2

Product designation

Hochiki, Model ALN-ASN, photoelectric smoke sensor

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

Agent/distributor

Hochiki Australia Pty Ltd
391 Park Road, REGENTS PARK, NSW, AUSTRALIA, 2143

Registrant

Hochiki Australia Pty Ltd
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 ALN-ASN, photoelectric smoke sensor 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. This equipment is specified by the Producer for connection and use only with Fire detection control and indicating equipment (FDCIE) produced and designated as follows.
 - Kentec Electronics Ltd: Taktis, Syncro AS
- ii. Verified for alarm settings in the range of 2.0% (high sensitivity) to 4.5% (low sensitivity).

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



Schedule to Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	Page 2 of 2
afp - 3180	22-Aug-2017	Number 9	Issue date 30-Aug-2023	30-Apr-2024

Producer's description

The Hochiki, Model ALN-ASN, photoelectric smoke sensor is fully compatible with Hochiki's ESP Analogue Addressable Protocol.

The smoke chamber may be removed or replaced for cleaning and utilises a baffle design which allows smoke to enter the chamber whilst keeping out ambient light.

The equipment is 100 mm diameter and has a height of approximately 45 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 ALN-ASN, photoelectric smoke sensor 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		Description	Compatible base models
Type	Ident.		
Model	ALN-ASN	Photoelectric smoke sensor	YBN-R/3, YBN-R/3-SCI, YBN-R/2NA, YBO-R-SCI, YBO-BS, YBO-BSB

Schedule of properties/characteristics

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

Operating voltage	17 – 41 Vdc
Low power mode (typ)	120 µA
Quiescent current (typ)	400 µA
Alarm current (typ)	9.1 mA
Operating temperature range	-10°C to + 50°C
Storage temperature range	-30°C to + 60°C
Maximum humidity	95%RH - Non Condensing (at 40°C)
Sensitivity levels	2%/m to 4.5%/m
Ingress protection rating	IP42
Colour / Case material	White or Black / Polycarbonate - ABS
Weight (g)	90 (Excluding base)
Diameter (mm) / Height with YBN base (mm)	100 / 46

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	CSBA0066/R1	Evaluation for Conformity of the Hochiki Model ALN-ASN Photoelectric Smoke Sensor to the requirements of AS 7240.7:2018	22-Aug-2023	CSIRO, Fire Systems Laboratory, AU
	XL2850/R4	Evaluation for conformity of the Hochiki Model ALN-ASN Photoelectric Smoke Sensor to the requirements of AS 7240.7-2004	20-Jan-2017	
Specification	ALN-ASN Iss2JUL19	Hochiki ESPintelligent ALN-ASN Optical Smoke Sensor (ALN-ASN 1412140-00 Product Specifications 05.pdf)	28-Aug-2023	Hochiki Australia Pty Ltd, AU