



# Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
<b>afp - 3147</b>	1-May-2017	Number 7	Issue date 23-Mar-2023	30-Apr-2024

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## Product designation

**Hochiki, esp FIREbeam, reflective optical beam smoke detector**

(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 Europe (U.K.) Ltd  
Grosvenor Road, Gillingham Business Park, GILLINGHAM, KENT, UNITED KINGDOM, ME8 0SA

## Conformance criteria and evaluation

The Hochiki, esp FIREbeam, reflective optical beam smoke detector has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 7240.12-2007, 'Fire detection and alarm systems - Part 12: Line type smoke detectors using a transmitted optical beam'.

## 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 equipment 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

Kaj Loh  
Executive Officer – ActivFire Scheme



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## Producer's description

The Hochiki, esp FIREbeam, reflective optical beam smoke detector uses a motorised sensor method which allows it to self-align to the centre of the reflector during commissioning. Once commissioned the detector monitors alignment and automatically realigns back to the centre of the reflector if any movement occurs. This equipment uses a separate controller unit for commissioning.

The range of the Hochiki, esp FIREbeam, reflective optical beam smoke detector is 40 m (standard), but may be increased to 80 m or 100 m with the addition of alternative reflector kits.

This equipment features an integral loop module allowing connectivity to the ESP analogue addressable loop.

## Technical specification

The following details are a representative extract of the technical specification for the Hochiki, esp FIREbeam, reflective optical beam 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 properties/characteristics

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

<b>Electrical specifications</b>		
Supply voltage	17 to 41 Vdc	
Supply current	3.5 mA (constant current) in all operational states	
Constant current	17 mA (constant current) in fast commissioning	
<b>Environmental specifications</b>		
Temperature	-10°C to +55°C	
Humidity	10 to 95% RH Non-condensing	
Ingress protection index	IP65 when suitably mounted and terminated	
<b>Mechanical specifications</b>		
Beam head H x W D, Weight	180 mm x 155 mm x 137 mm, 1.1 kg	
Controller H x W D, Weight	185 mm x 120 mm x 62 mm, 0.55g	
40KIT80 mid-range reflector H x W D, Weight	293 mm x 293 mm x 5 mm, 0.8 kg	
80KIT100 long range reflector H x W D, Weight	394 mm x 394 mm x 5 mm, 1.8 kg	
Adapter (mounts the beam head onto unistrut) H x W D, Weight	270 mm x 250 mm x 5 mm, 0.6 g	
<b>Optical specifications</b>		
Optical wavelength	870 nm	
Maximum angular alignment	±5°	
Maximum angular misalignment	Beam Head ±0.3°, Reflector ±2° (static not auto-aligning)	
<b>Operational specifications</b>		
Protection Range	ESP FIREBEAM	Standard Product 5 to 40 metres
	40KIT80	Mid-Range Reflector Kit 40 to 80 metres
	80KIT100	Long Range Reflector Kit 80 to 100 metres

### Schedule of components and/or assemblies

The following is a schedule of validated components and/or assemblies of the certified/listed equipment.

Description	Part num.
Beam head	-
Controller	-
Mid-range reflector	40KIT80
Long range reflector	80KIT100
Adapter (mounts the Beam Head onto unistrut)	-

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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	XF3064/R1	Evaluation for Conformity of the Hochiki, Model ESP FIREbeam, optical beam smoke detector to the requirements of AS 7240.12-2007	21-Mar-2017	CSIRO, Fire Systems Laboratory, AU
Part No.	2-3-0-1340 Issue 2.0	esp FIREbeam Installation Manual	Dec-2011	Hochiki Europe (U.K.) Ltd. UK