CSIRO Verification Services
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Certificate of Conformity

Certificate num.	Registration date	Version Number	Version Issue date	Valid until	Page 1 of 3
afp - 2998	2-Sep-2015	8	13-Apr-2023	30-Apr-2024	

Product designation

AutroFlame, Model BG-201, infra-red flame detector

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

Agent/distributor

Kidde Australia
Unit 3, Ground Floor, 10 Ferntree Place, NOTTING HILL, VIC, AUSTRALIA, 3168

Registrant

Autronica Fire and Security AS
Haakon VIIs Gate 4, 7483 Trondheim, TRONDHEIM, NORWAY, NO-7483

Producer

Autronica Fire and Security AS
Haakon VIIs Gate 4, 7483 Trondheim, TRONDHEIM, NORWAY, NO-7483

Conformance criteria and evaluation

The AutroFlame, Model BG-201, infra-red flame detector has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. European Standard EN 54-10:2002, 'Fire detection and fire alarm systems. Flame detectors. Point detectors'.
2. European Standard EN 54-17:2005, 'Fire detection and fire alarm systems. Short circuit isolators'.

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.

ii. This product is to be used on Al_Com detection loops.

iii. Up to 127 BG-201 detectors can be connected to an AutroSafe/Autroprime detection loop.

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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The validity and authenticity of this certificate can be verified by the certification register located at https://activfire.csiro.au

Schedule to
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Producer's description

The AutroFlame, Model BG-201, infra-red flame detector is for detection of fires involving combustion of carbonaceous materials.

The detector has a high IP rating making it suitable for the harshest environments and can be used for interactive Al_Com version for connection to AutroSafe / Autroprime detection.

The advanced signal processing and DYFI+ intelligence ensure that the detector has a high immunity to any nuisance alarm source combined with fast detection of real fires.

The detection principle of this product is dual IR sensor responding to the radiated IR signal from a fire. Two infrared sensors recognize the infrared spectrum of a hydrocarbon fire. The sensors evaluate different parts of the infrared spectrum, and use this information to improve false alarm rejection.

Technical specification

The following details are a representative extract of the technical specification for the AutroFlame, Model BG-201, infra-red flame 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.

Weight:	210 g
Materials:	Polycarbonate, sapphire glass.
Colour:	Transparent / light grey
Sensitivity:	Refer to Schedule of performance classes
Field of view:	Horizontal=+/-45º, Vertical=+30º/-45º
Voltage.	Supplied from detection loop
Current consumption: Stand by	90 µA
Current consumption: Alarm LED on	2.1 mA
Degree of protection:	IP66 and 67
Working temperature, storage temperature	-40 to +70°C
Storage temperature	-40 to + 70ºC
Humidity	0-96% rh, can withstand 100% condensing humidity for short periods of time
Maintenance	Cleaning of window
Service	Replace if faulty
Cable size (cable gland)	6-12mm
Wire size (terminal block)	Maximum cable 2.5mm^2 / AWG14

Schedule of performance classes (as determined by EN 54-10)

Performance class	Range
Class 1*	Up to 25 m
Class 2	Up to 17 m
Class 3*	Up to 12 m

* The Performance classes is according to EN54-10. They can be set by the configuration in AutroSafe / Autroprime. The 3 different classes can be chosen for the Standard mode only. When the detector mode is set to Legacy, the detector will run in performance class 2 and cannot be changed. (Up to 17 mtrs.)

Schedule of mode selections

Mode	Description
STANDARD	AutroSafe / Autroprime mode Standard mode means that the detector will run as BG-201 on newer versions of AutroSafe and Autroprime.
LEGACY	FDI compatible mode In Legacy mode the detector emulates the Flame detector interface (FDI) used for the 601F detector.

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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.**			
Test report number	TE276617	Technical evaluation of the Autronica Fire and Security BG-201 Interactive IR flame detector with isolator and BG-21 Conventional IR flame detector to EN 54-10:2002 EN 54-17:2005.	5-Nov-2012	BRE Global Ltd, UK
LPCB Ref. No.	1130a/01	Analogue addressable IR flame detector (interactive) EN54-17: 2005 Analogue addressable IR flame detector (interactive) Meets EN54-10: 2002 at Class 1, Class 2 & Class 3 (lpcb_w3_Ref_1130a-01_v_2015-04-08.pdf)	8-Apr-2015	BRE Global Ltd (LPCB), UK
Instructions	116-P-BG201-BG21/DGB	AutroFlame IR Flame Detector BG-201/BG-21	10-Oct-2012	Autronica Fire and Security AS, NO