



# Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
<b>afp - 2999</b>	2-Sep-2015	Number 9	Issue date 4-Apr-2024	30-Apr-2025

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## Product designation

**AutroFlame, Model BG-21, 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 VII's Gate 4, 7483 Trondheim, TRONDHEIM, NORWAY, NO-7483

### Producer

Autronica Fire and Security AS

Haakon VII's Gate 4, 7483 Trondheim, TRONDHEIM, NORWAY, NO-7483

## Conformance criteria and evaluation

The AutroFlame, Model BG-21, 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'.

## 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 conventional detection loops (for conventional fire detection systems).

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



# Schedule to Certificate of Conformity

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## Producer's description

The AutoFlame, Model BG-21, 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.

The detector can be used for connection to most conventional panels using a loop voltage between 10 – 24V and is based on the current increase principle to give alarm.

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 AutoFlame, Model BG-21, 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= $\pm$ 45°, Vertical= $\pm$ 30°/-45°
Voltage.	10-26 Vdc
Current consumption: Stand by	90 $\mu$ A
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 + 70°C
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 <sup>2</sup> / AWG14

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

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

\* Default configuration is class 1. Class 3 can be hardware selectable.

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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.	1130b/01	Conventional IR flame detector Note: Meets EN54-10: 2002 at Class 1 & Class 3 (lpcb_w3_Ref_1130b-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