



Certificate of Conformity

| Certificate num. | Registration date | Version | Valid until | |
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| afp - 1226 | 16-Feb-1999 | Number 14 | Issue date 26-Apr-2019 | 30-Apr-2020 |

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Product designation

ESL, Model 449CT, nom. sens. (S)=12% obs./m, photoelectric smoke 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

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

Producer

Edwards
8985 Town Center Parkway, BRADENTON, FL, UNITED STATES, 34202

Conformance criteria and evaluation

The ESL, Model 449CT, nom. sens. (S)=12% obs./m, photoelectric smoke detector has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 1603.2-1997, 'Automatic fire detection and alarm systems - Point type smoke 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.

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

David Whittaker
Executive Officer – ActivFire Scheme



Schedule to Certificate of Conformity

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Producer's description

The ESL, Model 449CT, nom. sens. (S)=12% obs./m, photoelectric smoke detector is a low-profile, self-diagnostic, four wire smoke detector that work on the light scattering principle. A pulsed infra-red light emitting diode serves as the light source and a high speed photo-diode as the sensing element. This design has superior protection against false alarms caused by dust, insects, RF and ambient light.

The ESL, Model 449CT, photoelectric smoke detector includes an integrated fixed (57°C) temperature and rate of rise head detector. Either heat or smoke detector can trip and latch the indicator LED and alarm relay outputs.

Technical specification

The following details are a representative extract of the technical specification for the ESL, Model 449CT, nom. sens. (S)=12% obs./m, 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.

| | |
|--------------------------------------|--|
| Sensitivity (S) value: | 12% obs./m (as determined from evaluation) |
| Input voltage: | 12 / 24 Vdc |
| Operating voltage range: | 8.5 to 33.0 Vdc |
| Average current: | 70 μ A |
| Typical alarm current: | 15 mA |
| Alarm relay contacts: | 0.5 A @ 36 Vdc (resistive) |
| Operating temperature range: | 0°C to +50°C |
| Operating humidity range: | 0 to 95% RH |
| Heat detector specifications: | |
| Fixed temperature: | 57.2°C \pm 2.8°C |
| Rate of Rise: | 8.3°C/min & >40°C |
| Detector size: | 155 mm x 47 mm (diameter x height) |
| Colour: | white cover / white base |