



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 1170	25-Sep-1998	Number 14	Issue date 1-May-2019	30-Apr-2020

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Product designation

Cerberus AlgoRex®, DOT Series, nom. sens. (S)=7.0% obs./m, photoelectric neural smoke detector

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

Agent/distributor

Siemens Ltd.
885 Mountain Highway, BAYSWATER, VIC, AUSTRALIA, 3153

Registrant

Siemens Ltd.
885 Mountain Highway, BAYSWATER, VIC, AUSTRALIA, 3153

Producer

Siemens Building Technologies AG
Bellerivestrasse 36, ZURICH, SWITZERLAND, CH-8088

Conformance criteria and evaluation

The Cerberus AlgoRex®, DOT Series, nom. sens. (S)=7.0% obs./m, photoelectric neural 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. When controlled by the Cerberus AlgoRex® Controller program with the APS007S, Life Safety algorithm.
- ii. 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 Cerberus AlgoRex®, DOT Series, nom. sens. (S)=7.0% obs./m, photoelectric neural smoke detector measure the smoke density as well as the ambient air temperature. The temperature sensor signal can be evaluated either differentially and/or absolute. The smoke sensor is based on the light scattering principal to detect the presence of smoke in an optimised optical system. The internal microprocessor controls the various measurement and test sequences, performs the signal processing, and classifies the events into different danger levels and function states. The microprocessor also controls the communication with the control unit. The numerous detector characteristics are stored in the non-volatile memory, EEPROM, and can be read and or modified at any time by authorised personnel. The contents of the non-volatile memory is checked automatically every 15 minutes.

The detectors have the capacity to communicate with the control panel and report four different fire levels as well as four different operating function status. The detectors report, upon request from the control panel, the analogue value of the sensor.

The Cerberus AlgoRex®, DOT Series, photoelectric neural smoke detectors are mounted on the Cerberus, model DB1151, base assembly and connected to the control panel in a two wire configuration.

Technical specification

The following details are a representative extract of the technical specification for the Cerberus AlgoRex®, DOT Series, nom. sens. (S)=7.0% obs./m, photoelectric neural 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 algorithm:	APS007S Life Safety
Operating voltage range:	21.1 to 31.2 Vdc modulated
Quiescent current:	300 mA typical
Alarm current:	15 mA (alarm LED ON)
Self test interval:	15 minutes
Operating temperature:	-25°C to +70°C
Humidity:	≤ 95% RH
Dimensions:	Ø 115 mm x 54.5 mm

Model	Tested base designation	Base + detector circuit type
DOT1151A	Cerberus, Model DB1151	Distributed processing
DOT1152A with isolator	Cerberus, Model DB1151	Distributed processing

Supplementary information

Base assembly DB1511

Connection to control panel, via two wire line. Terminals provided for external response indicator.