



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 1159	17-Jul-1998	Number 14	Issue date 1-May-2019	30-Apr-2020

Page 1 of 2

Product designation

Cerberus, Model DLO1191A, linear 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, Model DLO1191A, linear smoke detector has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 1603.7-1996, 'Automatic fire detection and alarm systems - Optical beam 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. The operating temperature range is -10 °C to 60 °C.
- ii. Installation in a dry indoors environment.
- iii. 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

Certificate num.	Registration date	Version		Valid until	Page 2 of 2
afp - 1159	17-Jul-1998	Number 14	Issue date 1-May-2019	30-Apr-2020	

Producer's description

The Cerberus, Model DLO1191A, linear smoke detector is a reflected type optical beam smoke detector. The detector unit consists of a PCB assembly onto which are mounted the transmitter and receiving units. The beam detector infra-red (nominal 880 nm) transmitter produces a modulated light beam that is projected onto the receiver (silicon photo-diode) via a retroreflector. An alarm condition is generated when the signal strength of the light beam is reduced, by the presence of smoke, to the pre-set sensitivity level of the detector. The detector has three user selectable attenuation levels, 30 % ("reduced"), 50 % ("standard") and 65 % ("increased"). Using a sighting device initially performs alignment of the detector. Final alignment is achieved by vertical and horizontal adjustment of the lens body of the detector in conjunction with use of a detector adjustment set. The detector adjustment set allows the "range" and "signal" output from the detector to be optimised, by physical displacement of the lens body.

The detector has provision for two levels of signal strength, "weak" or "strong", which are selected on the basis of the span to be covered. Provided the "range" and "signal" values are within the allowable settings, initiation of the detector is then performed by activating the reed switch on the beam detector unit by the use of a magnet. The detector can be used in a "collective" mode (one detector connected to detector line) or in an "interactive" mode (up to 10 detectors may be connected to the detector line).

Other features of the detector include, fault indication (low signal level or light beam obscuration), remote LED connection facility, end-of-line (E.O.L) termination and provision for an additional "short distance filler". A four pin dip switch is provided for the selection of the attenuation level and beam signal strength. The Cerberus, Model DLO1191A, linear smoke detector is designed for use in conjunction with a range of retro-reflectors. The retroreflector used is determined by the span to be covered by the detector and on the signal strength level. The models of retro-reflector and the manufacturers specified span are detailed below:

- (a) 5 to 30 m: Reflector foil, model DLR1193 (10 x 10 cm), 1 piece.
- (b) 30 to 50 m: Reflector foil, model DLR1192 (20 x 20 cm), 1 piece.
- (c) 50 to 65 m: Reflector foil, model DLR1192 (20 x 20 cm), 4 pieces.
- (d) 20 to 110 m: Glass prism, model DLR1191 (cat's eye), 1 piece.

Where the span is between 5 and 10 metres, the following additional short distance filters are required:

- (a) 5 to 8 m: Model DLF1191AB.
- (b) 7 to 10 m: Model DLF1191AA.

Technical specification

The following details are a representative extract of the technical specification for the Cerberus, Model DLO1191A, linear smoke detector and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Detector unit:	Cerberus, Model DLO1191A (note: A denotes revision level)
Retro-reflectors:	Cerberus, Model DLR1191 (glass prism) validated range 110 m Cerberus, Model DLR1193 (10 cm x 10 cm reflector foil), validated range 30 m Cerberus, Model DLR1192 (20 cm x 20 cm reflector foil), validated range 44 m (1 piece) Cerberus, Model DLR1192 (20 cm x 20 cm reflector foil), validated range 62 m (4 pieces)
Short range filter:	Cerberus, Model DLR1191AA 7m to 10 m Cerberus, Model DLR1191AB 5 m to 8 m
Detector adjustment set:	Cerberus, Model DZL1191
Modes:	Collective and interactive
Operating voltages:	
Collective mode:	18 to 27 Vdc
Interactive mode:	21.2 to 31.2 Vdc
Quiescent current:	1.5 mA
Alarm current:	75 mA (without remote LED connection)
Temperature range:	-20°C to 70°C
Humidity:	95% R.H. (\leq 30°C)