



Certificate of Conformity

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afp - 2839	22-Aug-2013	Number 10	20-Mar-2025	30-Apr-2026	

Product designation

System Sensor, Models 22051TLE / 22051TLEI, photoelectric / thermal (class A1R) / infra-red multi-criteria fire sensors

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

Agent/distributor

Honeywell Security and Fire
9 Columbia Way, BAULKHAM HILLS, NSW, AUSTRALIA, 2153

Registrant

Honeywell Security and Fire
9 Columbia Way, BAULKHAM HILLS, NSW, AUSTRALIA, 2153

Producer

System Sensor Europe
Javastrasse 2, Unit C2, Foundry Lane, HEGNAU, SWITZERLAND, CH-8604

Conformance criteria and evaluation

The System Sensor, Models 22051TLE / 22051TLEI, photoelectric / thermal (class A1R) / infra-red multi-criteria fire sensors has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 7240.5-2004, 'Fire detection and alarm systems - Part 5: Point type heat detectors (ISO 7240-5:2003, MOD)'.
2. Australian Standard AS 7240.7-2004, 'Fire detection and alarm systems - Part 7: Point-type smoke detectors using scattered light, transmitted light or ionization (ISO 7240-7:2003, MOD)'.

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. The Pertronic, Model F120A, CIE, with alarm thresholds set at smoke sensitivity setting +1 (highest), -3 (lowest) and heat sensitivity setting -4 (heat only), has been verified as equipment to which this fire detector can be suitably connected.

Issued by

Kai Loh
Executive Officer – ActivFire Scheme



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.

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iii. The detector is used in indoor dry environments.

Producer's description

System Sensor, Models 22051TLE / 22051TLEI, photoelectric / thermal (class A1R) / infra-red multi-criteria fire sensors are plug-in type units that combine three types of detection capability with addressable communications. A photoelectric sensing chamber detects smoke, while a thermal element provides rate-of-rise and fixed temperature heat sensing and an infra-red sensor adds further detection ability. These sensors are designed for open area protection and must be only be connected to control panels that use a compatible proprietary communication protocol for monitoring and control.

Two LEDs on each sensor light to provide a local 360° visible sensor indication (operation of LEDs are dependent on panel). Remote LED indicator capability is available as an optional accessory wired to the standard base terminals

Technical specification

The following details are a representative extract of the technical specification for the System Sensor, Models 22051TLE / 22051TLEI, photoelectric / thermal (class A1R) / infra-red multi-criteria fire sensors and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Model	Colour	Comment	Tested base designation	Base + detector circuit type
Model 22051TLE-34	White	Includes short circuit isolator	System Sensor, B501AP (base with loop contact)	Addressable
Model 22051TLE-34-IV	Ivory			
Model 22051TLEI-34-IV	White			
Model 22051TLEI-34-IV	Ivory			

Product characteristic		Model 22051TLE-34	Model 22051TLEI-34
Electrical			
Operating voltage range		15 to 32Vdc	15 to 28.5Vdc
Maximum standby current		200µA at 24Vdc (no communications)	
		300µA at 24Vdc (LED blink enabled, once every 5s)	
Led current	Red	3.5mA at 24Vdc	
	Green	7.0mA @ 24Vdc	
	Yellow	10.5mA @ 24Vdc	
Remote output voltage		22.5Vdc @ 24Vdc	
Remote output current		10.8mA @ 24Vdc	
Additional loop resistance using the B501AP		typical 20 mohm (max 30 mohm)	
Isolation current		-	15mA at 24Vdc
Maximum continuous current		-	1A (Switch Closed)
Additional loop resistance		-	typical 80 mohm @24V (max 170mohm @ 15V)
Environmental			
Temperature range		-30°C to +70°C †	
Humidity		10 to 93% relative Humidity (non-condensing)	
Mechanical			
Height		63mm installed in B501 base	
Weight		102g (inc base)	
Maximum wire gauge for terminals		2.5mm²	
Material		PC/ABS	

† Do not install detectors in locations where normal ambient temperature exceeds 50°C.

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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		Source	Title / description	Issue (or date verified)
Ident. type	Ident.			
Report No.	XF2779/R2	CSIRO, Materials Science and Engineering, Fire Systems, AU	Evaluation for conformity of the System Sensor Model 22051TLE-34-IV Multi-Sensor Detector to the requirements of AS 7240.5-2004 and AS 7240.7-2004	14 February 2013
Data Sheet	DS 22051TLE -09	System Sensor Europe (Technical Services), UK	Series 200 Advanced PTIR -Photoelectric, Thermal, & Infra Red Multi-Criteria Model 22051TLE	Mar-2009