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Certificate of Conformity

Certificate num.
Registration date
Version
Valid until

afp - 2927
30-Jul-2014
Number 16
Issue date 3-Apr-2024
30-Apr-2025
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Product designation

This certification is issued within the scope of CSIRO Verification Services – Rules governing Activiti Services – Rules governi Services – Rules governing Activit Services –

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

Agent/distributor

Johnson Controls Fire Detection Products

Level 3, 37 Dalmore Drive, Carribbean Park, SCORESBY, VIC, AUSTRALIA, 3179

Registrant

Johnson Controls Fire Detection

17 Mary Muller Drive, Hillsborough, Christchurch, NEW ZEALAND, 8022

Producer

Tyco Fire & Security Gmbh

Victor von Bruns-Strasse 21, NEUHAUSEN AM RHEINFALL, SWITZERLAND, 8212

Conformance criteria and evaluation

The Tyco, Model 850H, Class P (A2S, A2R, CS, CR) heat detector 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 ISO 7240.17:2015, 'Fire detection and alarm systems Part 17: Shortcircuit isolators'.

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.

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 hairboh.

Kaj Loh Executive Officer – ActivFire Scheme



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Producer's description

The Tyco, Model 850H, Class P (A2S, A2R, CS, CR) heat detector is an analogue addressable heat detector that uses the MX Digital Communications Protocol to be powered by and communicate with a compatible MX fire alarm panel. The detector has an in-built loop short circuit isolator that is functional when the detector is installed in a 4B-C continuity base. It has a red LED that can be programmed to blink when the detector is polled, and that turns on for alarm. It has a yellow LED that turns on when the in-built short circuit isolator operates.

The heat element of the heat detector uses a single thermistor to produce an output proportional to temperature. Rate of change of temperature is determined by the fire panel by using differences between consecutive temperature values returned from the detector.

Technical specification

The following details are a representative extract of the technical specification for the Tyco, Model 850H, Class P (A2S, A2R, CS, CR) heat 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.

Working voltage range:		20.0 to 40.0 Vdc (loop voltage)	
Quiescent current:		290 uA	
Alarm current:		3 mA (no remote indicator),	
		10 mA (with remote indicator)	
Operating temperature:		-25°C to 70°C (90°C short term)	
Humidity:		95% non-condensing	
Storage Temperature:		-40°C to 80°C	
Dimensions:	Height:	43 mm	
	Diameter:	109 mm	
	Weight:	81 g	

Schedule of components and/or assemblies

The following is a schedule of validated components of the certified/listed equipment.

Base designation	Base + detector circuit type		
Tyco, Model 4B base			
Tyco, Model 4B-C continuity base			
Tyco, Model 4B-I isolator base			
Tyco, Model 5B universal base			
Tyco, Model 5BI isolator base	Analogue Addressable		
Tyco, Model MUB universal base			
Tyco, Model 802SB sounder base			
Tyco, Model 814RB relay base			

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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			Data issued		
ldent. type	Ident.	Title / description	(or date validated)	Source	
Report	XF3019/R13	Evaluation for Conformity of the Tyco, Model 850H, Class P heat detector to the requirements of AS ISO 7240.17:2015	27-Sep-2017	CSIRO, Fire Systems Laboratory, AU	
	XF2681/R1	Evaluation for conformity of the Tyco Model 850H Heat Detector to the requirements of AS 7240.5-2004	7-Jul-2014	CSIRO, Fire Systems and Acoustics, AU	
EC-Certificate of Conformity	0786-CPD-21070	EC-Certificate of Conformity Multi sensor detector 850PH;850P;850H;850PC EN 54-5: 2000 + A1: 2002 EN 54-7: 2000 + A1: 2002 + A2: 2006 EN 54-17: 2005 /AC: 2007	5-Dec-2011	5-Dec-2011	
Report BMA	BMA 11042	VdS Schadenverhutung Brandschutz/Fre Protection, Laboratorien/Laboratories, Amsterdamer Str. 174, 0-50735 Koln Laboratory for Fire Detection Systems (BMA) Test Report No.BMA 11042 on the testing of Multiple Sensor Detector Types BSOPH, 851PH, 851PHN, 840PH, 830PH, 856PH and FC460PH and Smoke Detector	Verband der Schadenverhütung, DE 26-Aug-2011		
		submitted by Thorn Security Ltd. trading as Tyco Safety Products (TSP) Dunhams Lane GB Letchworth SG6 1BE			
Information Sheet	850INFTFPP1406(- D4)	Vigilant 850 Series Fire Detectors	1-Jul-2014	Tyco Fire Protection Products, AU / NZ	