



# Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
<b>afp - 1341</b>	11-Aug-2000	Number 13	Issue date 27-Apr-2019	30-Apr-2020

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## Product designation

**Tyco, Series 1948, power supply units**

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

## Agent/distributor

Tyco Fire Protection Products  
Level 3, 95 Coventry Street, SOUTHBANK, VIC, AUSTRALIA, 3006

## Registrant

Johnson Controls  
17 Mary Muller Drive, HILLSBOROUGH, CHRISTCHURCH, NEW ZEALAND, 8022

### Producer

Johnson Controls  
17 Mary Muller Drive, HILLSBOROUGH, CHRISTCHURCH, NEW ZEALAND, 8022

## Conformance criteria and evaluation

The Tyco, Series 1948, power supply units have been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 4428.5-1998, 'Fire detection, warning, control and intercom systems - Control and indicating equipment - Power supply units'.

## 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.

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 Tyco, Series 1948, power supply units are fully self contained in steel cabinets with housing space and charging facilities for sealed lead acid batteries. The power supply units (PSU) convert the mains AC input supply to a low voltage dc supply suitable for fire detection and warning system equipment. The power supply units have externally visible LED indicators to determine their operating status. A green LED indicates Mains On, a yellow LED is used to indicate the status for Battery/Charger Fault, and a red LED is used to indicate the Charge/Test function.

The Tyco, Series 1948, power supply units provide battery backed and current limited 24 Vdc or 12 Vdc current-limited and non battery backed 24 Vdc or 12 Vdc outputs.

The Tyco, Series 1948, power supply units also provide adjustable stepped current limit with manual control battery test and charger disable inputs. Links on the PCB can be removed to disable the timer for automatic battery tests and the charger fault signal. An open collector PSU fault signal output is also available.

## Technical specification

The following details are a representative extract of the technical specification for the Tyco, Series 1948, power supply units and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Model	Power supply	Battery charger	Reference
FP0766 24V/2A	27.3Vd.c. @ 1.6 A	27.3 Vd.c. @ (2-Iq) A	XF1596/R2, Aug. 2000, AS 4428.5-1998
FP0765 12V/2A	13.7Vd.c. @ 1.6 A (Note 1)	13.7 Vd.c. @ (2-Iq) A (Note 1)	"
FP0634 12V/0.5A	13.7Vd.c. @ 0.5 A	13.7 Vd.c. @ 0.5 A	XF1146/R1, May 1996, AS 1603.4-1987 incl. amdt. 1 & 2.
FP0635 24V/0.5A	27.3Vd.c. @ 0.5 A	27.3 Vd.c. @ 0.5 A	XF1146/R2, Apr. 1996, AS 1603.4-1987 incl. amdt. 1 & 2.

**Note 1:** The Tyco Series 1948 12V/2A power supply unit was appraised to being similar to the tested Tyco Series 1948 24V/2A power supply unit.

## Supplementary information

### Modules:

Module Description	Assembly number	PCB number	iss.	Tech. drawing number	iss.	Reference
Series 1948 24/2A DC Power Supply Unit and Mains Termination Board	PA0854	1948-1-4	D	1948-1-4 SHT 1	3	XF1596/R2, Aug- 2000, AS 4428.5-1998
Series 1948 24V/0.5A DC Power Supply Unit and Mains Termination Board	PA0736	1948-1-2	D	1948-1-2 SHT 1	3	"
Series 1948 12V/2A DC Power Supply Unit and Mains Termination Board	PA0853	1948-1-3	D	1948-1-3 SHT 1	3	"
Series 1948 12V/0.5A DC Power Supply Unit and Mains Termination Board	PA0735	1948-1-1	D	1948-1-1 SHT 1	3	"

**Note:** The technical drawings are now Issue/Revision 4 and the PCB number is Issue/Revision E.

### Eproms

1948 PSU, 12V, OTP (sf0225)	V2.01 \$23E97
1948 PSU, 24V, OTP (SF0226)	V2.01 \$23E97