



Certificate of Conformity

Certificate num.	Registration date	Version	Valid until	
afp - 380	30-Nov-1989	Number 13	Issue date 1-May-2018	30-Apr-2019

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Product designation

Tyco, Model F08, fire indicator panel

(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, Model F08, fire indicator panel has been evaluated and verified as conforming with the relevant requirements of the following criteria.

1. Australian Standard AS 1603.4-1987, 'Automatic fire detection and alarm systems - Control and indicating equipment'.

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 equipment with new or existing actuating devices 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



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Producer's description

The Tyco, Model F08, fire indicator panel is a compact, self-contained Fire Indicator Panel (FIP) which performs the functions of the Control and Indicating Equipment (CIE) specified by the Australian Standard AS 1603:Part 4-1987, 'Automatic Fire Detection and Alarms Systems, Control and Indicating Equipment'. The FIP is microprocessor based, providing a maximum of eight detection zones, using compatible actuating devices.

The Tyco, Model F08, FIP consists of a wall mounted cabinet, one processor board (including power supply/charger), and one display/control board. The inner door of the panel contains electronics and controls, whilst the rear contains processing electronics, input and output terminals. The FIP react to an alarm condition as programmed and provides visual and audible indications.

The Tyco, Model F08, FIP provides a range of programmable options; disable unused circuits, latching or no-latching circuits, ten types of circuit timing delays (including AVF and 1668 control), 'mapping' of zones to outputs, and ancillary output supervision.

Technical specification

The following details are a representative extract of the technical specification for the Tyco, Model F08, fire indicator panel and may be subject to change. Complete and current details should be determined from the designated producer's technical manual/data sheets.

Power supply:

Nominal output voltage:	28.0 Vdc
Maximum rated output current:	1.9 A
Current limit fuse rating:	1.6 A
Line regulation:	1.8%
Worst case ripple @ 216 Vac supply:	100 mV p-p

Battery charger:

Battery charge voltage setting:	27.3 Vdc
Circuit current limit:	4.0 A

Panel:

Quiescent panel load:	163 mA @ 27.3 Vdc
Minimum power supply load requirements:	244 mA
Required battery capacity for 8 AZF's:	2.6 Amp-hr
Manufacturer's nominated battery capacity:	5.7 Amp-hr

Supplementary information

Evaluated modules

Module description	Assembly number	Rev.	PCB no.	Iss.	tech. drawing no.	Iss.	Reference
F08 Display Board PA 0446	1899-5	B/2	1899-5	B	1899-5	2	89/FS 124 October 1989
F08 Main Board PA 0447	1899-12	B/4	1899-12	B	1899-12	4	
F08 Main Board PA 0814	1899-12	B/5	1899-12	B	1899-12	5	XF1624/R1, 10-Feb-2000
ARU 401 Relay Board	696-030	2	696-030	0	696-044	1	F442/2 August 1990

EPROM

F08 28/7/89	K\$8588 INT K\$ CD9E	89/FS 124 October 1989
F08 Checksum	V3.00 A\$DC38	XF1624/R1, 10-Feb-2000

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MANUALS

Technical Manual	Issue 3.02 27-Oct-1998
Operator's Manual	Issue 3.02 03-Dec-1998

Device	Maximum number of devices allowed per AZF 4 mA - 20 V	Reference
Cerberus, DLO1191A, beam	1	XF1450/R1, 15-Jul-1998, Compatibility Assessment
Hochiki, DCA-B-60R Mk 5, Heat Type A	40*	89/FS 124, October 1989
Hochiki, DCA-B-90R Mk 1, Heat Type C	40*	AS 1603:Part 4-1987, incl amdt 1 & 2
<i>The above detectors with the Hochiki YBC-R/3A or YBF-RL/4AH4M base</i>		
Hochiki, DCC-A, Heat Type A	40*	XB0994, 18-Dec-1992
Hochiki, DCC-C, Heat Type C	40*	Compatibility Assessment
<i>The above detectors with the Hochiki YBC-R/3A or YBF-RL/4AH4M base</i>		
Hochiki, DCD-A, Heat Type A	5	XF1252/R1, February 1998
Hochiki, DCD-C, Heat Type C	4	Compatibility Assessment
<i>The above detectors with the Hochiki YBO-R/4A base</i>		
Hochiki, DFE-60B, Heat Type B	40*	89/FS 124, October 1989
Hochiki, DFE-90D, Heat Type D	40*	AS 1603:Part 4-1987, incl amdt 1 & 2
<i>The above detectors with the Hochiki YBC-RL/4AH4 base</i>		
Hochiki, DFJ-60B, Heat Type B	5	XF1252/R1, February 1998
Hochiki, DFJ-90D, Heat Type D	4	Compatibility Assessment
<i>The above detectors with the Hochiki YBC-RL/4AH4 base</i>		
Hochiki, HF-24A Mk 1, UV Flame	17	89/FS 124, October 1989
Hochiki, SIF-A Mk 1, Smoke Ionisation	40*	AS 1603:Part 4-1987, incl amdt 1 & 2
Hochiki, SLG-A Mk 1, Smoke Photoelectric	40*	
Hochiki, SLK-A, Smoke Photoelectric	40*	
<i>The above detectors with the Hochiki YBC-RL/4AH4 base</i>		
Olsen, B111B Beam	40*	89/FS 124, October 1989
Olsen, C23B, Smoke Ionisation with Olsen Z54 Base	40*	AS 1603:Part 4-1987, incl amdt 1 & 2
Olsen, C24B, Smoke Ionisation with the Olsen Z54B, Z54B Mk 2, or Z55B base	40*	XB0942, August 1992, Compatibility Assessment
Olsen, C24B, Smoke Ionisation with the Olsen Z56 base	40*	XB1246, 23-Dec-1994, Compatibility Assessment
Olsen, C24B, Smoke Ionisation with Olsen Z500 base or Z500 base + E500 R/I	40*	XF1457, November 1998 Compatibility Assessment
Olsen, C29BEx, Smoke Ionisation with the Olsen Z56 base	40*	XB1246, 23-Dec-1994, Compatibility Assessment
Olsen, C29B, Smoke Ionisation with Olsen Z500 base	37	XF1457, November 1998,
Olsen, C29B, Smoke Ionisation with Olsen Z500 base + E500 R/I	40*	Compatibility Assessment
Olsen, C75B, Smoke Ionisation	40*	89/FS 124, October 1989
Olsen, FW81B, Heat Type E	1	AS 1603:Part 4-1987, incl amdt 1 & 2
Olsen, P136, Duct Sampling Unit	8	XF1930/R1, September 2002 Compatibility Assessment
Olsen, P24B, Smoke Photoelectric with the Olsen Z54B, Z54B Mk 2, or Z55B base	40*	XB0942, August 1992, Compatibility Assessment
Olsen, P24B, Smoke Photoelectric with Olsen Z500 base	32	XF1457, November 1998 Compatibility Assessment
Olsen, P24B, Smoke Photoelectric with Olsen Z500 base + E500 R/I	17	
Olsen, P24B, Smoke Photoelectric	30	89/FS 124, October 1989
Olsen, P29B, Smoke Photoelectric	33	AS 1603:Part 4-1987, incl amdt 1 & 2
<i>The above detectors with Olsen Z54B base</i>		

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Device	Maximum number of devices allowed per AZF 4 mA - 20 V	Reference
Olsen, P61B (Rev J)	30	89/FS 124, October 1989
Olsen, P75B, Smoke Photoelectric	40*	AS 1603:Part 4-1987, incl amdt 1 & 2
Olsen, P76B, Smoke Photoelectric	10	
Olsen, R23B, Infra-red Flame	30	
Olsen, R24BEx, Infra-red Flame	5	
Olsen T54B, Heat Type E	40*	
Olsen, T56B Mk 5, Heat Type A, B, C or D with the Olsen Z54B, Z54 Mk 2, or Z55 base	40*	XB1033, 25-May-1992, Compatibility Assessment
Olsen, T56B Mk 5, Heat Type A, B, C or D with Z56 base	40*	XB1246, 23-Dec-1994, Compatibility Assessment
Olsen, T56B Mk 5, Heat Type A, B, C or D with Olsen Z500 base or Z500 base + E500 R/I	40*	XF457, November 1998 Compatibility Assessment
Olsen, V41B/42B, Flame	40*	89/FS 124, October 1989 AS 1603:Part 4-1987, incl amdt 1 & 2

* Maximum number of detectors per AZF/AZC allowed by code.

Device	Maximum number of devices allowed per AZF ZAU 401 with KHD3-ICR/Ex 130-200 ISB (3k9)	Reference
Olsen, C29BEx, Smoke Ionisation with Olsen Z54BEx base, Z55B, or Z56 base	40*	F352, 28-Aug-1991, Compatibility Assessment
Olsen, R24BEx, Infra-red Flame	8	
Olsen, T54B, Heat Type E	40*	
Olsen, T56B Mk 5, Heat Type A, B, C or D with the Olsen Z54BEx, Z55B, or Z56 base	40*	

* Maximum number of detectors per AZF/AZC allowed by code.

Device	Maximum number of devices allowed per AZF ZAU 401 with ZG30/Ex (3k9)	Reference
Olsen, C29BEx Smoke with Olsen Z54BEx base, Z55B (non indicating), or Z56 base	40*	F352, 28-Aug-1991, Compatibility Assessment
Olsen, R24BEx Infra-red Flame	8	"
Olsen, T54B Type E Heat	40*	"
Olsen, T56B Mk 5, Type A, B, C or D Heat with the Olsen Z54BEx, Z55B, or Z56 base	40*	"

* Maximum number of detectors per AZF/AZC allowed by code.

Device	Maximum number of devices allowed per AZF ZAU401 with KHD3-ICR/Ex 130-200, KHD0-ICS/Ex 151 or KHD0- ICS/Ex 151 (3k9)	Reference
Olsen, C29BEx Smoke with Olsen Z94C base	40*	XF1054/R1, March 1995, Compatibility Assessment

* Maximum number of detectors per AZF/AZC allowed by code.

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Tyco F08 Upgrade (PA0814)

Device	Maximum number of devices allowed per AZF Main Board 1899-12 Issue B (EOL 2k7 Ω)	Reference
Minerva, MD614, Heat Type A	40*	XF1624/R3, 10-Feb-2000
Minerva, MD614, Heat Type C	40*	Compatibility Assessment
Minerva, MF614, Smoke Ionisation	40*	
Minerva, MR614, Smoke Photoelectric	40*	
Minerva, MR614T, Smoke Photoelectric	40*	
Minerva, MU614, Carbon Monoxide	40*	
<i>The above detectors with Minerva M614 base</i>		
Olsen, B111B, Beam	40*	XF1624/R3, 10-Feb-2000
Olsen, FW81B, Cable Heat Type E	1000m	Compatibility Assessment
Olsen, C24B, Smoke Ionisation	40*	XF1624/R3, 10-Feb-2000
Olsen, C29B, Smoke Ionisation	40*	Compatibility Assessment
Olsen, P136, Duct Sampling Unit	8	XF1930/R1, September 2002 Compatibility Assessment
Olsen, P24B, Smoke Photoelectric	40*	XF1624/R3, 10-Feb-2000
Olsen, P29B, Smoke Photoelectric	33	Compatibility Assessment
Olsen, P76B, Smoke Photoelectric	20	
<i>The above detectors with Z54B MK2, Z56, Z72, Z500 & Z23 bases as appropriate</i>		
Olsen, R23B Infra-Red Flame	30	XF1624/R3, 10-Feb-2000
Olsen, R24B Infra-Red Flame	5	Compatibility Assessment
Olsen, R24BEx Infra-Red Flame (IS)	5	
Olsen, T54 Probe Type Heat	40*	
Olsen, T56B Mk 5, Heat Type A, B, C & detectors with Z54B MK2, Z56, Z72, Z500 & Z23 bases as appropriate	40*	
Olsen, V41B, Ultraviolet Flame	40*	XF1624/R3, 10-Feb-2000
Olsen, V42B, Ultraviolet Flame	40*	Compatibility Assessment
Simplex, 4098-9618EA, Heat Type A	40*	XF1757/R2, May 2001
Simplex, 4098-9619EA, Heat Type B	40*	Compatibility Assessment
Simplex, 4098-9621EA, Heat Type D	40*	AS 4428.0-1997 Appendix E
Simplex, 4098-9601EA, Smoke Photoelectric	40*	
Simplex, 4098-9603EA, Smoke Ionisation	40*	
<i>The above detectors with Simplex 4098-9788EA base</i>		
Thorn, S121, Infra-Red Flame	40*	XF1624/R3, 10-Feb-2000 Compatibility Assessment
Tyco, CP820, manual call point	40*	XF1875/R1, June 2002, Compatibility Assessment
Tyco, T614A, Heat Type A	40*	XF1910/R1, July 2002
Tyco, T614B, Heat Type B	40*	Compatibility Assessment
Tyco, T614C, Heat Type C	40*	
Tyco, T614D, Heat Type D	40*	
<i>The above detectors with Minerva MUB/M614 base</i>		

* Maximum number of detectors per AZF/AZC allowed by code.

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Device	Maximum number of devices allowed per AZF Main Board 1899-12 Issue B (EOL 2k7 Ω) with Pepperl & Fuchs KHD0-ICS/Ex151, KHD0-ICS/Ex251 or MTL5061 ISB	Reference
Olsen, C29BEx, Smoke Ionisation with Olsen Z94C base	40*	XF1624/R3, 10-Feb-2000, Compatibility Assessment
Olsen, R24BEx, Infra-red Flame	5	
Olsen, T54B, Heat Type E	40*	
Olsen, T56B Mk 5, Heat Type A, B, C or D with the Olsen Z55B or Z56BEx base	40*	
Short circuit device	40*	

* Maximum number of detectors per AZF/AZC allowed by code.

Device	Max. number of devices allowed per AZF Main Board 1899-12 Issue B (EOL 2k7 Ω) with Pepperl & Fuchs KFDO-CS/Ex1.51 or KFDO-CS/Ex2.51P ISB	Reference
Olsen, C29BEx, Smoke Ionisation with Olsen Z52B, Z55B, Z56B, Z56N or Z500 base	40*	XF1875/R1, June 2002, Compatibility Assessment

* Maximum number of detectors per AZF/AZC allowed by code.