



Number:	UKCA/0558/22/112	Replaces:	18GR0577/01
Issue Date:	29-07-2022	Contract Number:	PS7188
Due Date:	29-07-2032	Module:	B (Type Testing)
Report Number:	122616	Scope:	Gas Appliances
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## UKCA TYPE EXAMINATION CERTIFICATE

Kiwa Ltd. hereby declares that the automatic burner control systems, type(s)

BIC 9xx

Manufactured by **S.I.T. Controls B.V.**  
Hoogeveen, The Netherlands

Meet(s) the essential requirements as described in the:

**Gas Appliances Regulation (Regulation (EU) 2016/426 as brought into GB law and amended), and the Gas Appliances (Enforcement) and Miscellaneous Amendment Regulations 2018 No 389, and amendments to UK SI 2019/696 Product Safety and Metrology, and subsequent amendments, The Product Safety, Metrology and Mutual Recognition Agreement (Amendment) (EU Exit) Regulations 2019 No 1246, and subsequent amendments. This certificate is not valid in Northern Ireland – and is applicable to England, Scotland and Wales only.**

Reference standards: BS EN 298:2012, BS EN 1643:2014, BS EN 14459:2007

Signed on behalf of Kiwa Ltd.  
(UK Approved Body Number 0558)

Mark Crowther  
Technical Director  
Kiwa Ltd.

39017601

# CERTIFICATE

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## APPENDIX TO UKCA TYPE EXAMINATION CERTIFICATE

Manufacturer:  
S.I.T. Controls B.V.

Types:  
BIC 939 Joshua

Scope:  
Application: Appliances burning gaseous fuels and non-permanent operation  
Flame detection: Ionisation  
Applied technology: Complex electronics  
Ambient temperature: -20 °C to +70 °C  
Electrical supply: 120 Vac 50/60 Hz  
Protection: Without enclosure and IP 00  
Installation environment: Pollution degree 1 or 2 or 3  
Gas valve output 1: Small Gas Valve 20 VA @ 120 Vac supply; Inrush: 160 VA  
Gas valve output 2: Large Gas Valve 20 VA @ 120 Vac; Inrush: 160 VA  
Gas valve output 3: Proof-Of-Closure Valve 35 VA @ 24 Vac.

See the installation and operating instructions for all specifications and possible options available for the above listed type(s).

Approved safety relevant functions:  
Automatic burner control system: EN 298      Class C  
Temperature control function (TCF \*): EN 14459, Annex K      Class C

\*) Approval of the sensing element is not included.

Remarks/special conditions:  
The BIC939 Joshua is not able to detect failures in the mechanical mounting of the Air-Damper to the shaft of the damper. The end-customer has to take care of failure mitigation or any resulting potential hazards.



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## APPENDIX TO UKCA TYPE EXAMINATION CERTIFICATE

Manufacturer:  
S.I.T. Controls B.V.

Types: BIC 939 Ginkgo  
(from modification /38)

Scope:  
Application: Appliances burning gaseous fuels and non-permanent operation  
Flame detection: Ionisation  
Applied technology: Complex electronics  
Ambient temperature: -20 °C to +70 °C  
Electrical supply: 120 Vac 50/60 Hz  
Protection: Without enclosure and IP 00  
Installation environment: Pollution degree 1 or 2 or 3  
Gas valve output 1: Small Gas Valve 20 VA @ 120 Vac supply; Inrush: 160 VA

See the installation and operating instructions for all specifications and possible options available for the above listed type(s).

Approved safety relevant functions:  
Automatic burner control system: EN 298      Class C  
Temperature control function (TCF \*): EN 14459, Annex K      Class C

\*) Approval of the sensing element is not included.

Remarks/special conditions:

- Since the predecessor BIC939 Crest MR was derived from the BIC 939 Crest, the conditions listed in "122616\_28\_MOD-S\_EC.pdf" are also applicable. For the BIC 939 Crest MR types the following applies: On the appliance level, it shall be checked that the flame sensing safeguard(s) correspond(s) with correct closure(s) of one or more of the connected gasvalve(s).
- On the appliance level, it shall be checked that the algorithm of selecting the largest flame signal (out of two flame sensing inputs) is appropriate for the safety of detecting flame loss and preventing flow of unburned gas longer than the safety time.



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## APPENDIX TO UKCA TYPE EXAMINATION CERTIFICATE

Manufacturer:  
S.I.T. Controls B.V.

Types:  
BIC 939 DF Eagle  
(from modification /36)

Scope:  
Application: Appliances burning gaseous fuels and non-permanent operation  
Flame detection: Ionisation  
Applied technology: Complex electronics  
Ambient temperature: -20 °C to +70 °C  
Electrical supply: 120 Vac 50/60 Hz  
Protection: Without enclosure and IP 00  
Installation environment: Pollution degree 1 or 2 or 3  
Gas valve output 1: Max 120 Vac / max 1.3 A (3.3 A inrush)  
Gas valve output 2: Max 120 Vac / max 1.3 A (3.3 A inrush)  
Gas valve output 3 (PoC valve): Max 120 Vac / max 1.3 A (3.3 A inrush)

See the installation and operating instructions for all specifications and possible options available for the above listed type(s).

Approved safety relevant functions:

Automatic burner control system:	EN 298	Class C
Flame detector device:	EN 298	Class C
Reset function:	EN 14459, Annex J	Class B
Temperature control function (overheat protection) using thermistors *):	EN 14459, Annex L	Class C
Temperature control function (overheat protection) using high limit switch *):	EN 14459, Annex K	Class C
Pre-mix 1 temperature limit function *):	EN 14459, Annex K	Class C
Pre-mix 2 temperature limit function *):	EN 14459, Annex K	Class C
Flue gas temperature limit function*):	EN 14459, Annex K	Class C

\*) Approval of the sensing element is not included.

Remarks/special conditions:

- The external 24VAC transformer was not part of the approval and need to be approved as a safety isolating type according to the requirements of EN 61558.
- The reaction time at flame loss can under fault conditions increase to about 5 s. This can be accepted since a false flame test directly after burner shutdown is implemented, which will detect this error.
- Various settings controlling the behaviour of the overheat protection function (EN14459, Annex K, TCF) can be made by parameters (e.g. shutdown temperature, allowed difference between sensor and redundant sensor, etc.). During approval of the appliance the BIC 939 DF Eagle is used for, the values of these parameters need to be verified.

Manufacturer:  
S.I.T. Controls B.V.



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## APPENDIX TO UKCA TYPE EXAMINATION CERTIFICATE

### Types:

BIC 939 PF  
(from modification /36)

### Scope:

Application:	Appliances burning gaseous fuels and non-permanent operation
Flame detection:	Ionisation
Applied technology:	Complex electronics
Ambient temperature:	-20 °C to +70 °C
Electrical supply:	120 Vac 50/60 Hz
Protection:	Without enclosure and IP 00
Installation environment:	Pollution degree 1 or 2 or 3
Gas valve output 1:	Max 24 Vac / max 1.46 A (35VA)
Gas valve output 2:	Max 24 Vac / max 0.71A (17 VA)
Gas valve output 3:	Max 24 Vac / max 1.46 A (35VA)
Gas valve output 4:	Max 24 Vac / max 0.71A (17 VA)

See the installation and operating instructions for all specifications and possible options available for the above listed type(s).

### Approved safety relevant functions:

Automatic burner control system:	EN 298	Class C
Flame detector device:	EN 298	Class C
Reset function:	EN 14459, Annex J	Class B
Temperature control function (overheat protection) using thermistors *):	EN 14459, Annex K	Class C
Temperature control function (overheat protection) using high limit switch *):	EN 14459, Annex K	Class C

\*) Approval of the sensing element is not included.

### Remarks/special conditions:

- The external 24VAC transformer was not part of the approval and need to be approved as a safety isolating type according to the requirements of EN 61558.
- The BIC 939 PF has two separate state machines (with ignition, running, etc.): one for stages 1/2 and one for stages 3/4. When e.g. stages 1/2 have a functional problem (failed ignition, false flame, etc.) these stages may enter lock-out while stages 3/4 may still be operating and vice versa. It should be verified at the appliance approval whether this is acceptable. An internal fault in hard- or software of the burner control will lead to a lock-out of the complete control (all stages in lock-out).
- Various settings controlling the behaviour of the overheat protection function (EN14459, Annex K, TCF) can be made by parameters (e.g. shutdown temperature, allowed difference between sensor and redundant.sensor, etc.). During approval of the appliance the BIC 939 PF is used for, the values of these parameters need to be verified.
- The external ignition and any cords and detachable connectors (contra parts of on BIC 939 PF mounted connectors) were not part of the approval and need to be examined in the appliance the BIC 939 PF is used for.



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## APPENDIX TO UKCA TYPE EXAMINATION CERTIFICATE

Manufacturer:  
S.I.T. Controls B.V.

Types:  
BIC 939 SF ST  
(equal to BIC 939 Crest MR from modification /34)

Scope:  
Application: Appliances burning gaseous fuels and non-permanent operation  
Flame detection: Ionisation  
Applied technology: Complex electronics  
Ambient temperature: -20 °C to +70 °C  
Electrical supply: 120 Vac 50/60 Hz  
Protection: Without enclosure and IP 00  
Installation environment: Pollution degree 1 or 2 or 3  
Gas valve output 1: Max 120 Vac / max 1.3 A (3.3 A inrush)  
Gas valve output 2: Max 120 Vac / max 1.3 A (3.3 A inrush))  
Gas valve output 3: Max 120 Vac / max 1.3 A (3.3 A inrush)

See the installation and operating instructions for all specifications and possible options available for the above listed type(s).

Approved safety relevant functions:  
Automatic burner control system: EN 298      Class C  
Temperature control function (TCF \*): EN 14459, Annex K      Class C

\*) Approval of the sensing element is not included.

Remarks/special conditions:  
Since the predecessor BIC939 Crest MR was derived from the BIC 939 Crest, the conditions listed in "122616\_28\_MOD-S\_EC.pdf" are also applicable. For the BIC 939 Crest MR types the following applies: On the appliance level, it shall be checked that the flame sensing safeguard(s) correspond(s) with correct closure(s) of one or more of the connected gas valve(s).  
On the appliance level, it shall be checked that the algorithm of selecting the largest flame signal (out of two flame sensing inputs) is appropriate for the safety of detecting flame loss and preventing flow of unburned gas longer than the safety time. See the installation and operating instructions for all specifications and possible options available for the above listed type(s).



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## APPENDIX TO UKCA TYPE EXAMINATION CERTIFICATE

Manufacturer:  
S.I.T. Controls B.V.

Types:  
BIC 939 Copperfin II  
(from modification /29)

Scope:  
Application: Appliances burning gaseous fuels and non-permanent operation  
Flame detection: Ionisation  
Applied technology: Complex electronics  
Ambient temperature: -20 °C to +70 °C  
Electrical supply: 120 Vac 50/60 Hz  
Protection: Without enclosure and IP 00  
Installation environment: Pollution degree 1 or 2 or 3  
Gas valve output 1: Max 24 Vac / max 1.46 A (35VA)  
Gas valve output 2: Max 24 Vac / max 0.71A (17 VA)  
Gas valve output 3: Max 24 Vac / max 1.46 A (35VA)  
Gas valve output 4: Max 24 Vac / max 0.71A (17 VA)

See the installation and operating instructions for all specifications and possible options available for the above listed type(s).

Approved safety relevant functions:  
Automatic burner control system: EN 298      Class C  
Temperature control function (TCF)\*): EN 14459, Annex K      Class C

\*) Approval of the sensing element is not included.

Remarks/special conditions:

- The control has been approved in combination with display PCB DU 939. Any other display PCB's were not part of the approval.
- Any external sensing elements (e.g. thermistors) were not part of the approval. These need to be examined on the appliance the BIC 939 Copperfin II is used for.
- The external 24VAC transformer was not part of the approval and need to be approved as a safety isolating type according to the requirements of EN 61558.
- The BIC 939 Copperfin II has two separate state machines (with ignition, running, etc): one for stages 1/2 and one for stages 3/4. When e.g. stages 1/2 have a functional problem (failed ignition, false flame, etc.) these stages may enter lock-out while stages 3/4 may still be operating and vice versa. It should be verified at the appliance approval whether this is acceptable. An internal fault in hard- or software of the burner control will lead to a lock-out of the complete control (all stages in lock-out).
- Various settings controlling the behaviour of the overheat protection function (EN14459, Annex K, TCF) can be made by parameters (e.g. shutdown temperature, allowed difference between sensor and redundant sensor, etc.). During approval of the appliance the BIC 939 Copperfin II is used for, the values of these parameters need to be verified.
- The external ignition and any cords and detachable connectors (contra parts of on BIC 939 Copperfin II mounted connectors) were not part of the approval and need to be examined in the appliance the BIC 939 Copperfin II is used for.



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## APPENDIX TO UKCA TYPE EXAMINATION CERTIFICATE

Manufacturer:  
S.I.T. Controls B.V.

Types:  
BIC 939 DF

Scope:  
Application: Appliances burning gaseous fuels and non-permanent operation  
Flame detection: Ionisation  
Applied technology: Complex electronics  
Ambient temperature: -20 °C to +70 °C  
Electrical supply: 120 Vac 50/60 Hz  
Protection: Without enclosure and IP 00  
Installation environment: Pollution degree 1 or 2 or 3  
Gas valve output 1: Max 120 Vac / max 1.3 A (3.3 A inrush)  
Gas valve output 2: Max 120 Vac / max 1.3 A (3.3 A inrush)

See the installation and operating instructions for all specifications and possible options available for the above listed type(s).

Approved safety relevant functions:  
Classification (according to EN 14459:2007) of additional limit functions:

Automatic burner control system:	EN 298	Class C
Temperature control function (overheat protection) using thermistors *)	EN 14459, Annex K	Class C
Temperature control function (overheat protection) using high limit switch *)	EN 298	Class C
Pre-mix 1 temperature limit function *)	EN 14459, Annex K	Class C
Pre-mix 2 temperature limit function *)	EN 14459, Annex K	Class C
Flue gas temperature limit function *)	EN 14459, Annex K	Class C

\*) Approval of the sensing element is not included.  
Any other limit functions have not been examined and should therefore be considered as class A.

Remarks/special conditions:

- The control has been approved in combination with display PCB DU 936. Any other display PCB's were not part of the approval.
- Any external sensing elements (e.g. thermistors) were not part of the approval. These need to be examined on the appliance the BIC 939 Robot is used for.
- The external 24VAC transformer was not part of the approval and need to be approved as a safety isolating type according to the requirements of EN 61558.
- The reaction time at flame loss can under fault conditions increase to about 5s. This can be accepted since a false flame test directly after burner shutdown is implemented, which will detect this error.
- Various settings controlling the behaviour of the overheat protection function (EN14459, Annex K, TCF) can be made by parameters (e.g. shutdown temperature, allowed difference between sensor and redundant sensor, etc.). During approval of the appliance the BIC 939 Robot is used for, the values of these parameters need to be verified.





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## APPENDIX TO UKCA TYPE EXAMINATION CERTIFICATE

Manufacturer:  
S.I.T. Controls B.V.

Types:  
BIC 926 LCD CE / BIC 926 LCD ECS CE  
(BIC 926 LCD ECS CE from modification /22 and BIC 926 LCD CE from /21)

Scope:  
Application: Appliances burning gaseous fuels and non-permanent operation  
Flame detection: Ionisation  
Applied technology: Complex electronics  
Ambient temperature: 0 °C to +60 °C  
Electrical supply: 230 Vac 50/60 Hz  
Protection: Without enclosure and IP 00  
Installation environment: Pollution degree 1 or 2 or 3  
Gas valve output 1: 24 Vac / < 12 VA

See the installation and operating instructions for all specifications and possible options available for the above listed type(s).

Approved safety relevant functions:  
Automatic burner control system:      EN 298      Class C

Remarks/special conditions:  
None



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## APPENDIX TO UKCA TYPE EXAMINATION CERTIFICATE

Manufacturer:  
S.I.T. Controls B.V.

Types:  
BIC 930 SILE  
(from modification /22 and earlier)

Scope:

Application:	Appliances burning gaseous fuels and non-permanent operation
Flame detection:	Ionisation
Applied technology:	Complex electronics
Ambient temperature:	0 °C to +60 °C
Electrical supply:	230 Vac 50 Hz / 117 Vac 60 Hz
Protection:	Without enclosure and IP 00
Installation environment:	Pollution degree 1 or 2 or 3
Gas valve output 1:	24 Vac / < 12 VA

See the installation and operating instructions for all specifications and possible options available for the above listed type(s).

Approved safety relevant functions:

Automatic burner control system:	EN 298	Class C
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Remarks/special conditions:  
None



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## APPENDIX TO UKCA TYPE EXAMINATION CERTIFICATE

Manufacturer:  
S.I.T. Controls B.V.

Types:  
BIC 935, BIC 935 CE  
(from modification /22 and /37)

Scope:

Application:	Appliances burning gaseous fuels and non-permanent operation
Flame detection:	Ionisation
Applied technology:	Complex electronics
Ambient temperature:	0 °C to +60 °C
Electrical supply:	230 Vac 50 Hz (for BIC-935 CE) / 120 Vac 60 Hz (for BIC-935)
Protection:	Without enclosure and IP 00
Installation environment:	Pollution degree 1 or 2 or 3
Gas valve output 1:	24 Vac / < 40 VA

See the installation and operating instructions for all specifications and possible options available for the above listed type(s).

Approved safety relevant functions:

Automatic burner control system:	EN 298	Class C
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Remarks/special conditions:  
None



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## APPENDIX TO UKCA TYPE EXAMINATION CERTIFICATE

Manufacturer:  
S.I.T. Controls B.V.

Types:  
BIC 937  
(from modification /37)

Scope:  
Application: Appliances burning gaseous fuels and non-permanent operation  
Flame detection: Ionisation  
Applied technology: Complex electronics  
Ambient temperature: 0 °C to +60 °C  
Electrical supply: 120 Vac 60 Hz  
Protection: Without enclosure and IP 00  
Installation environment: Pollution degree 1 or 2 or 3  
Gas valve output 1: 24 Vac / < 40 VA

See the installation and operating instructions for all specifications and possible options available for the above listed type(s).

Approved safety relevant functions:  
Automatic burner control system: EN 298 Class C

Remarks/special conditions:  
None



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## APPENDIX TO UKCA TYPE EXAMINATION CERTIFICATE

Manufacturer:  
S.I.T. Controls B.V.

Types:  
BIC 936 / BIC 936 AZ  
(from modification /22 and /32)

Scope:

Application:	Appliances burning gaseous fuels and non-permanent operation
Flame detection:	Ionisation
Applied technology:	Complex electronics
Ambient temperature:	0 °C to +60 °C
Electrical supply:	120 Vac 60Hz / 230 Vac 50 Hz
Protection:	Without enclosure and IP 00
Installation environment:	Pollution degree 1 or 2 or 3
Gas valve output 1:	120/230 Vac Gas valve 1, gas valve 2 and BIC936 (380mA) are fused with one fuse of 1,6 AT

See the installation and operating instructions for all specifications and possible options available for the above listed type(s).

Approved safety relevant functions:

Automatic burner control system:	EN 298	Class C
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Remarks/special conditions:  
None



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## APPENDIX TO UKCA TYPE EXAMINATION CERTIFICATE

Manufacturer:  
S.I.T. Controls B.V.

Types:  
BIC 960  
(from modification /1 and /38)

Scope:  
Application: Appliances burning gaseous fuels and non-permanent operation  
Flame detection: Ionisation  
Applied technology: Complex electronics  
Ambient temperature: 0 °C to +60 °C  
Electrical supply: 230 Vac 50 Hz / 60 Hz  
Protection: Without enclosure and IP 00  
Installation environment: Pollution degree 1 or 2 or 3  
Gas valve output: 230 Vac / max 100 VA  
LPG valve output: 230 Vac / max 100 VA

See the installation and operating instructions for all specifications and possible options available for the above listed type(s).

Approved safety relevant functions:

Automatic burner control system:	EN 298	Class C
Temperature control function (TCF) (overheat protection using thermistors *):	EN 14459, Annex K	Class C
Temperature control function (overheat protection) using high limit switch *):	EN 298	Class C

\*) Approval of the sensing element is not included.

Remarks/special conditions:  
None



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## APPENDIX TO UKCA TYPE EXAMINATION CERTIFICATE

Manufacturer:  
S.I.T. Controls B.V.

Types:  
BIC 907  
(from modification /24)

Scope:  
Application: Appliances burning gaseous fuels and non-permanent operation  
Flame detection: Ionisation  
Applied technology: Complex electronics  
Ambient temperature: 0 °C to +60 °C  
Electrical supply: 230 Vac 50 Hz  
Protection: Without enclosure and IP 00  
Installation environment: Pollution degree 1 or 2 or 3  
Gas valve output: 230 Vac < 16VA

See the installation and operating instructions for all specifications and possible options available for the above listed type(s).

Approved safety relevant functions:

Automatic burner control system:	EN 298	Class C
Temperature control function (TCF) (overheat protection using thermistors *):	EN 14459, Annex K	Class C

\*) Approval of the sensing element is not included.

Remarks/special conditions:  
None



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## APPENDIX TO UKCA TYPE EXAMINATION CERTIFICATE

Manufacturer:  
S.I.T. Controls B.V.

Types:  
BIC 970  
(from modification /40)

Scope:  
Application: Appliances burning gaseous fuels and non-permanent operation  
Flame detection: Ionisation / UV  
Applied technology: Complex electronics  
Ambient temperature: 0 °C to +60 °C  
Electrical supply: 230 Vac 50 .. 60 Hz  
Protection: Without enclosure and IP 00  
Installation environment: Pollution degree 3  
Gas valve output: 230 Vac / max. 50 VA /  $\cos \varphi \geq 0.8$

See the installation and operating instructions for all specifications and possible options available for the above listed type(s).

Approved safety relevant functions:

Automatic burner control system:	EN 298	Class C
Overheat cut-out by manual reset electromechanical cut-out *):	EN 298	Class C
Valve proving system (VPS):	EN 1643	Class C
Temperature control function (TCF) *):	EN 14459, Annex K	Class C
Reset function:	EN 14459, Annex J	Class B

\*) Approval of the electromechanical cut-out / sensing element is not included.

Remarks/special conditions:  
The UV input is a digital input. Approval of the sensor self is out of scope of this certificate.  
Pressure sensor is not tested. Approval of the switches self is out of scope of this certificate.  
Fluegas sensor, CO guard and Air Level Monitoring (LMÜ) is not assessed as safety relevant function.