

IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION **IEC Certification System for Explosive Atmospheres**

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx TUR 22.0056X** Page 1 of 3 Certificate history:

Issue No: 0 Status: Current

Date of Issue: 2025-12-06

Applicant: JPCI Controls (Foshan Gaoming) Co. Ltd.

No.10, Pengshan Road, Hecheng Street

Gaoming District Guangdong Province Foshan City 528531

China

Equipment: Explosion-proof Limiters Model: 4X Series and 4V Series

Optional accessory:

Type of Protection: mb

Ex mb IIC T3 Gb Marking:

Ex mb IIIC T150°C Db(for model 4X Series)

Ex mb IIC T4 Gb

Ex mb IIIC T125°C Db(for model 4V Series)

Approved for issue on behalf of the IECEx

Certification Body:

Position: **Head of Certification Body**

Signature:

(for printed version)

(for printed version)

2025-12-06

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Dipl. -Ing. Klauspeter Graffi

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The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

TUV Rheinland Industrie Service GmbH Am Grauen Stein 51105 Cologne Germany





IECEx Certificate of Conformity

Certificate No.: IECEx TUR 22.0056X Page 2 of 3

Date of issue: 2025-12-06 Issue No: 0

Manufacturer: JPCI Controls (Foshan Gaoming) Co. Ltd.

No.10, Pengshan Road, Hecheng Street

Gaoming District Guangdong Province Foshan City 528531

China

Manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS:

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements

Edition:7.0

IEC 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"

Edition:4.1

IEC 60079-18:2014 Explosive atmospheres – Part 18: Equipment protection by encapsulation "m"

Edition:4.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

DE/TUR/ExTR22.0056/00

Quality Assessment Report:

DE/TUR/QAR24.0016/01



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Certificate No.: IECEx TUR 22.0056X Page 3 of 3

Date of issue: 2025-12-06 Issue No: 0

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

General Description for Explosion-proof Limiters:

4X series explosion-proof temperature limiter, consists of anodized aluminium enclosure(AL6063), snap action thermostat, silicone filling, silicone insulated cables or wires, etc, and the cable or wires are directly led out through aluminium alloy washers. This device used with disc thermostat inside which has passed UL and CE certification. UL certificate No.: E43273 (NGT, type 03EN), E192925 (HONEST-WELL CO LTD, type T24); VDE certificate No.: 100896, 40004992 (NGT, type 03EN). TUV certificate No.: R 50225023 (Light county, type T24).

4V series explosion-proof temperature limiter, consists of anodized aluminum enclosure(AL6063), snap action thermostat, epoxy resin filling, XLPE insulated cables or wires, etc,and the cable or wires are directly led out through PPS plastic washers. This device used with disc thermostat inside which has passed UL and CE certification. UL certificate No.: E43273 (NGT, type 03EN), E192925 (HONEST-WELL CO LTD, type T24); VDE certificate No.: 100896, 40004992 (NGT, type 03EN). TUV certificate No.: R 50225023 (Light county, type T24).

Type of electrical contact of this device: single pole snap action, temperature rise open

Mainly used for thermal protection of industrial products, air conditioning products, heat tracing, and high temperature safety alarms in hazardous areas such as explosive gas and dust environments. It can be used for measure and control the temperature of air, fluids, solids and other medias.

SPECIFIC CONDITIONS OF USE: YES as shown below:

"Specific Conditions of Use"

- 1. No direct mechanical impact and vibration to be expected during normal service, and the additional mechanical protection may be required for this purpose.
- 2. Ex Limiters are not intended exposure to the UV lights.
- 3. Additional clamping devices or other equivalent methods should be used for the external connections of Ex Limiters to prevent any unexpected pull force applied. The clamping device should be as close to the external connection of Ex Limiters as possible.
- 4. When the enclosure is obviously damaged, the Ex Limiters should be stopped immediately.
- 5. The Ex Limiters is not intended to be installed on the surface of objects with a temperature rise of more than 0.5°C per minute.
- 6. Electrical connections and regular maintenance are performed in accordance with standard IEC/EN 60079-14 and IEC/EN 60079-17.or equivalent national standards.
- 7. The electrical connection at the end of the cable can be carried out in a safe area or in an enclosure suitable for the protection level, and the professional personnel are strongly recommended to perform this work. For safety, additional mechanical protection maybe required to the cable in order to prevent possible mechanical damage.
- 8. Permitted supply short-circuit current:15 A for NGT Thermostat model 03EN and 15A for Light country Thermostat model T24.
- 9. Function of Ex Limiters was certified by the general industrial standards under full loads and maximum short-circuit conditions, and it is the manufacturer's responsibilities for the function warranty.

Annex:

15_DE-IECEx_TUR_22.0056_X_00_Attachment_2025-12-06.pdf



Attachment to Certificate IECEx TUR 22.0056X

Device: Explosion-proof Limiters

Type: 4X Series and 4V Series

Manufacturer: JPCI Controls (Foshan Gaoming) Co., Ltd.

Address: No.10, Pengshan Road, Hecheng Street, Gaoming District, Foshan

City,528531 Guangdong, P.R.China

General product information:

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General Description for Explosion-proof Limiters:

4X series explosion-proof temperature limiter, consists of anodized aluminium enclosure(AL6063), snap action thermostat, silicone filling, silicone insulated cables or wires, etc, and the cable or wires are directly led out through aluminium alloy washers. This device used with disc thermostat inside which has passed UL and CE certification. UL certificate No.: E43273 (NGT, type 03EN), E192925 (HONEST-WELL CO LTD, type T24); VDE certificate No.: 100896, 40004992 (NGT, type 03EN). TUV certificate No.: R 50225023 (Light county, type T24).

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Type of electrical contact of this device: single pole snap action, temperature rise open Mainly used for thermal protection of industrial products, air conditioning products, heat tracing, and high temperature safety alarms in hazardous areas such as explosive gas and dust environments. It can be used for measure and control the temperature of air, fluids, solids and other medias.

The main characteristics are fixed working temperature, reliable and clean, no arcing, long service life, reliable performance, without wireless interference, and with precise structure.

4X Series Ex Limiters is protected by Type "mb" and is suitable for use in gas hazardous areas, zone 1 and zone 2, gas grouping IIC (Hydrogen/Acetylene, the highest protection group) with temperature group T3, and also suitable for use in dust hazardous areas, zone 21 and zone 22, the dust group is IIIC (electric conductive dust, the highest protection group) with the maximum surface is 150°C.

4V Series is protected by Type "mb" and is suitable for use in gas hazardous areas, zone 1 and zone 2, gas grouping IIC (Hydrogen/Acetylene, the highest protection group) with



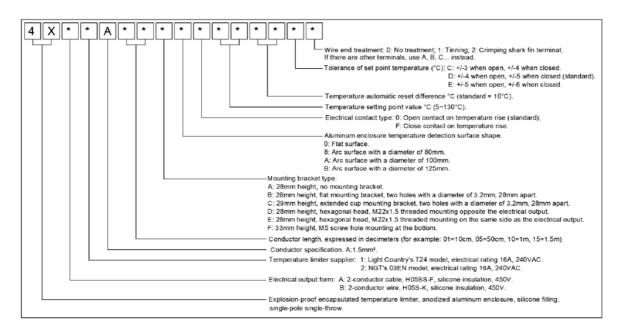
temperature group T4, and also suitable for use in dust hazardous areas, zone 21 and zone 22, the dust group is IIIC (electric conductive dust, the highest protection group) with the maximum surface is 125°C.

Model Designation:

Model 4X Series:

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Model name	Description
4XA1A****0*****2	ZR340 or CS-9812G-T54 silicone encapsulation; Black anodized aluminum
	alloy enclosure; Cable output; Light county type temperature limiter;
	Temperature rise and contact opens; Strip 6mm on the wire end and crimp
	fin terminals.
4XA2A****0*****2	ZR340 or CS-9812G-T5 silicone encapsulation; Black anodized aluminum
	alloy enclosure; Cable output; NGT type temperature limiter; Temperature
	rise and contact opens; Strip 6mm on the wire end and crimp fin terminals.
4XB1A****0*****2	ZR340 or CS-9812G-T5 silicone encapsulation; Black anodized aluminum
	alloy enclosure; Wire output; Light county type temperature limiter;
	Temperature rise and contact opens; Strip 6mm on the wire end and crimp
	fin terminals.
4XB2A****0****2	ZR340 or CS-9812G-T5 silicone encapsulation; Black anodized aluminum
	alloy enclosure; Wire output; NGT type temperature limiter; Temperature
	rise contact opens; Strip 6mm on the wire end and crimp fin terminals.
4XA1A***F****2	ZR340 or CS-9812G-T5 silicone encapsulation; Black anodized aluminum
	alloy enclosure; Cable output; Light county type temperature limiter;
	Temperature rise and contact closes; Strip 6mm on the wire end and crimp
	fin terminals.
4XA2A***F****2	ZR340 or CS-9812G-T5 silicone encapsulation; Black anodized aluminum
	alloy enclosure; Cable output; NGT type temperature limiter; Temperature
	rise and contact closes; Strip 6mm on the wire end and crimp fin terminals.
4XB1A***F****2	ZR340 or CS-9812G-T5 silicone encapsulation; Black anodized aluminum
	alloy enclosure; Wire output; Light county type temperature limiter;
	Temperature rise and contact closes; Strip 6mm on the wire end and crimp
	fin terminals.
4XB2A***F****2	ZR340 or CS-9812G-T5 silicone encapsulation; Black anodized aluminum
	alloy enclosure; Wire output; NGT type temperature limiter; Temperature
	rise and contact closes; Strip 6mm on the wire end and crimp fin terminals.
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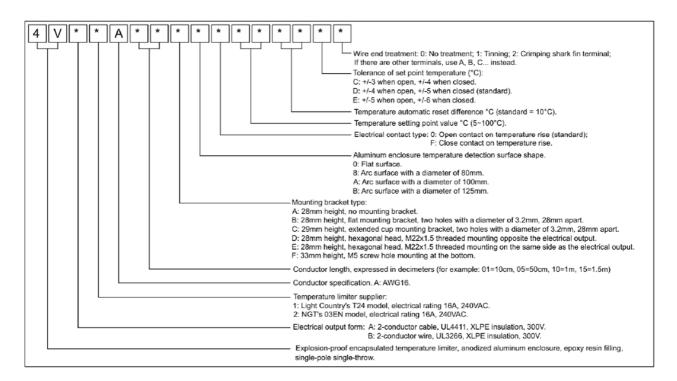




Model 4V Series

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Model name	Description
4VA1A****0*****2	6637A, B epoxy encapsulation; Black anodized aluminum alloy
	enclosure; Cable output; Light county type temperature limiter;
	Temperature rise contact opens; Strip 6mm on the wire end and crimp fin
	terminals.
4VA2A****0*****2	6637A, B epoxy encapsulation; Black anodized aluminum alloy
	enclosure; Cable output; NGT type temperature limiter; Temperature rise
	contact opens; Strip 6mm on the wire end and crimp fin terminals.
4VB1A****0*****2	6637A, B epoxy encapsulation; Black anodized aluminum alloy
	enclosure; Wire output; Light county type temperature limiter;
	Temperature rise contact opens; Strip 6mm on the wire end and crimp fin
	terminals.
4VB2A****0*****2	6637A, B epoxy encapsulation; Black anodized aluminum alloy
	enclosure; Wire output; NGT type temperature limiter; Temperature rise
	contact opens; Strip 6mm on the wire end and crimp fin terminals.
4VA1A****F****2	6637A, B epoxy encapsulation; Black anodized aluminum alloy
	enclosure; Cable output; Light county type temperature limiter;
	Temperature rise contact closes; Strip 6mm on the wire end and crimp fin
	terminals.
4VA2A****F*****2	6637A, B epoxy encapsulation; Black anodized aluminum alloy
	enclosure; Cable output; NGT type temperature limiter; Temperature rise
	contact closes; Strip 6mm on the wire end and crimp fin terminals.
4VB1A****F****2	6637A, B epoxy encapsulation; Black anodized aluminum alloy
	enclosure; Wire output; Light county type temperature limiter;
	Temperature rise contact closes; Strip 6mm on the wire end and crimp fin
	terminals.
4VB2A***F****2	6637A, B epoxy encapsulation; Black anodized aluminum alloy
	enclosure; Wire output; NGT type temperature limiter; Temperature rise
	contact closes; Strip 6mm on the wire end and crimp fin terminals.
	contact closes; Strip 6mm on the wire end and crimp fin terminals.





Technical Parameters:

Electrical data:

	Cross-section of	Maximum electric	Electrical life
	conductor (mm²)	rating	(cycles)
Resistive load	1.5	10A, 240VAC	30,000
Inductive load	1.5	8A, 240VAC	6,000

Permitted supply short-circuit current:15 A for NGT Thermostat model 03EN and 15A for Light country Thermostat model T24.

Environmental data:

Ex Limiters 4X Series: EPL Gb/IIC T3& EPL Db/IIIC T150°C

Temperature measurement range:5°C to +130°C(Tolerance: ±5°C)

Ambient temperature range: -30°C to +100°C

Ex Limiters 4V Series: EPL Gb/IIC T4& EPL Db/IIIC T125°C

Temperature measurement range:5°C to +100°C(Tolerance: ±5°C)

Ambient temperature range:-30°C to +90°C