



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 CSA 25.0050X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2025-07-17

Applicant: **J&R Technology Limited**
Room 404/601, Unit 1, No.3 Xingyi Road
Baishixia East
Fuyong Street
Baoan District
Shenzhen
China

Equipment: **Explosion-proof Loudspeakers JREX-HSA Series**

Optional accessory:

Type of Protection: **Flameproof 'd'. Dust Enclosure 't'**

Marking: Ex db IIC T6/T5 Gb
Ex tb IIIC T80°C/T95°C Db
See annexe for ambient temperature

Approved for issue on behalf of the IECEx
Certification Body:

Dave Magee

Position:

Senior Director of Operations

Signature:
(for printed version)

Date:
(for printed version)

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Certificate issued by:

CSA Group
178 Rexdale Boulevard
Toronto, Ontario M9W 1R3
Canada





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Manufacturer: **J&R Technology Limited**
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Manufacturing locations: **J&R Technology Limited**
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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 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-31:2022](#) Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

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:

[CA/CSA/ExTR25.0035/00](#)

Quality Assessment Report:

[GB/CSAE/QAR23.0016/02](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The protection type of JREX-HAS loudspeaker is Ex db and Ex tb, it is constructed of flameproof cover, flameproof body, elements with non-measurable paths, damper head, trumpet barrel, the flameproof cover and body which are made of stainless steel, the cover and body is fixed with 4 stainless screws which specification is M6*16. The element with non-measurable paths is cemented in the bottom of body and compressed by the compressed ring which is fixed with the body by compressed ring. The damper head is located inside enclosure. The trumpet barrel made of plastic material or stainless steel is fixed with bottom of body by the screws. On the side wall of flameproof body, there are two M20X1.5 cable entry holes. There is O-ring between flameproof cover and body to ensure the ingress protection level is IP 66.

SPECIFIC CONDITIONS OF USE: YES as shown below:

See annexe

Annex:

[IECEx CSA 25.0050X Issue 0 Annexe_1.pdf](#)

**EQUIPMENT (continued)**

The electrical rating and ambient temperature and temperature classification listed as following.

Type	Electrical rating	Ambient temperature	Temperature classification
JREX-HSA-A1	Rating Voltage:70Vac Rating Resistance :8 Ohm	-40 to 60°C	T6
JREX-HSA-A2	Rating Voltage:110Vac Rating Resistance :8 Ohm	-40 to 44°C	T6
		-40 to 59°C	T5
JREX-HSA-01	Rating Power:15W Rating Resistance :8 Ohm	-40 to 50°C	T6
		-40 to 65°C	T5
JREX-HSA-02	Rating Power:20W Rating Resistance :8 Ohm	-40 to 50°C	T6
		-40 to 65°C	T5
JREX-HSA-03	Rating Power:25W Rating Resistance :8 Ohm	-40 to 45°C	T6
		-40 to 60°C	T5
JREX-HSA-04	Rating Power:30W Rating Resistance :8 Ohm	-40 to 42°C	T6
		-40 to 57°C	T5
JREX-HSA-05	Rating Power:35W Rating Resistance :8 Ohm	-40 to 50°C	T5
JREX-HSA-P	Rating Voltage:57Vdc Rating Resistance :8 Ohm Constant Power: 10W	-40 to 45°C	T6
		-40 to 60°C	T5

Specific Conditions of Use

- No modifications and repairing to the flame paths are permitted without consultation with the manufacturer or notified body.
- The maximum surface temperature code and ambient temperature is listed as below.

Type	Ambient temperature	Temperature classification
JREX-HSA-A1	-40 to 60°C	T6
JREX-HSA-A2	-40 to 44°C	T6
	-40 to 59°C	T5
JREX-HSA-02	-40 to 50°C	T6
JREX-HSA-01	-40 to 65°C	T5
JREX-HSA-03	-40 to 45°C	T6
	-40 to 60°C	T5
JREX-HSA-04	-40 to 42°C	T6
	-40 to 57°C	T5
JREX-HSA-05	-40 to 50°C	T5
JREX-HSA-P	-40 to 45°C	T6
	-40 to 60°C	T5

- All cable entry holes shall be fitted with either a certified cable gland or a certified stopping plug that is suitable for the application.
- The maximum service temperature of cable branching point and cable entry listed as below

Annexe to: IECEx CSA 25.0050X Issue 0

Applicant: J&R Technology Limited



Apparatus: Explosion-proof Loudspeakers JREX-HSA Series

Type	Ambient temperature	Maximum Service temperature (°C)	
		Cable entry Point	Cable branch point
JREX-HSA-A1	-40 to 60°C	63.69	66.21
JREX-HSA-A2	-40 to 44°C	54.05	60.95
	-40 to 59°C	69.05	75.95
JREX-HSA-02	-40 to 50°C	56.96	64.52
JREX-HSA-01	-40 to 65°C	71.96	79.52
JREX-HSA-03	-40 to 45°C	53.41	63.15
	-40 to 60°C	68.41	78.15
JREX-HSA-04	-40 to 42°C	52.14	64.93
	-40 to 57°C	67.14	79.93
JREX-HSA-05	-40 to 50°C	63.25	80.29
JREX-HSA-P	-40 to 45°C	53.32	75.68
	-40 to 60°C	68.32	90.68

When the service temperature is higher than 70°C at the entry point or 80°C at the branching point of cable, please properly select cable and cable gland.

5. The enclosure shall be cleaned only with a damp cloth, and the equipment shall be mounted to avoid building static electric charge from nonconductive process flow, strong air currents, or other potential charging through friction.
6. The Yield strength of screws used to fix the enclosure shall not be less than 640Mpa.