



EU-TYPE EXAMINATION CERTIFICATE

Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014

EU-Type Examination Certificate Number: **CSANe 25ATEX1091X** Issue: **0**

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

Manufacturer: **J&R Technology Limited**

Address: Room 404/601 ,Unit 1, No.3 Xingyi
Roayd ,Baishixa East,6A, Fuyong
Street, Bao'an District, Shenzhen,
Guangdong 518103, China

This product and any acceptable variation thereto, is specified in the schedule to this certificate and the documents therein referred to.

CSA Group Netherlands B.V., Notified Body No. 2813 in accordance with Article 17 of the Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in item 16.2.

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-31:2014

Where additional criteria beyond those given here have been used, they are listed in item 18 in the Schedule.

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed in item 17 of this certificate.

This EU-Type Examination Certificate relates only to the technical design of the specified product in accordance with the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this product, these are not covered by this certificate.

The marking of the product shall include the following (additional marking is provided in the Schedule as a part of item 15, if applicable):



II 2GD

Ex db IIC T6/T5 Gb

Ex tb IIIC T80°C/T95°C Db

For ambient temperature see schedule

Signed:

M Halliwell

Title: Senior Director of Operations

Date: 17 July 2025



This certificate and its schedule may only be reproduced in its entirety and without change.
CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR Arnhem, The Netherlands.



SCHEDULE

EU-Type Examination Certificate Number: CSANe 25ATEX1091X **Issue:** 0

Description:

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.

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

Drawings and documents:

Technical documents:

Refer to Certificate Annex.

Associated reports and certificate history:

Issue	Date	Report number	Comment
0	17 July 2025	R80181643A	The release of the prime certificate.

Specific conditions of use (denoted by "X" after the certificate number):

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:



This certificate and its schedule may only be reproduced in its entirety and without change.
CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR Arnhem, The Netherlands.



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

17.3 All cable entry holes shall be fitted with either a certified cable gland or a certified stopping plug that is suitable for the application.

17.4 The maximum service temperature of cable branching point and cable entry listed as below:

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.

17.5 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.

17.6 The Yield strength of screws used to fix the enclosure shall not be less than 640Mpa.

18 **Essential health and safety requirements of Annex II (EHSRs):**

The relevant EHSRs that are not addressed by the standards listed in item 9 of this certificate have been identified and conformity of the product demonstrated in the reports listed in item 16.2.

19 **Remarks and additional information:**

The use of this certificate is subject to the regulations applicable to holders of CSA Group Netherlands B.V. certificates.

Compliance of the product with the applicable safety requirements of the relevant industrial standards has not been verified and is not covered by this certificate.



This certificate and its schedule may only be reproduced in its entirety and without change.
CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR Arnhem, The Netherlands.



19.1 **Conditions of manufacture:**

None.



This certificate and its schedule may only be reproduced in its entirety and without change.
CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR Arnhem, The Netherlands.

QD-1589 Issue Date: 2025-06-20

Certificate **CSANe 25ATEX1091X** Issue **0**

Page **4** of **4**



Certificate Annexe

Document History

Issue – 0

Documents Introduced

Drawing	Sheets	Rev.	Date (Stamp)	Title
JREX-HSA-XK	1	V1.1	19 May 25	General Assembly Drawing
JREX-HSA-XK	1	V1.1	19 May 25	Flameproof body
JREX-HSA-SK	1	V1.1	19 May 25	Flameproof Cover
JREX-HSA-ZH	1	V1.1	19 May 25	Sintered elements
JREX-HSA-ZH1	1	V1.1	19 May 25	Compressed Ring
JREX-HSA-DT	1	V1.1	19 May 25	Trumpet barrel
JREX-HSA-ZT	1	V1.1	19 May 25	Trumpet barrel
JREX-HSA-AZT	1	V1.1	19 May 25	Installation strip
JREX-HSA-GJ1	1	V1.1	19 May 25	O-Ring
JREX-HSA-GJ	1	V1.1	19 May 25	O-Ring
JREX-HSA-YT	1	V1.1	19 May 25	Damper Head
JREX-HSA-MP	1	V1.1	19 May 25	Nameplate
JREX-HAS-JD	1	V1.1	19 May 25	Grounding Diagram

This annexe may only be reproduced in its entirety and without change.
CSA Group Netherlands B.V. Utrechtseweg 310, Building B42, 6812AR Arnhem, The Netherlands.