



# 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](http://www.iecex.com)

Certificate No.: **IECEX PRE 18.0072X** Page 1 of 4 Certificate history:  
Status: **Current** Issue No: 1 [Issue 0 \(2018-11-13\)](#)  
Date of Issue: 2021-03-12  
Applicant: **DNH AS**  
Gruveveien 4  
N-3770 Kragerø  
Norway  
Equipment: **Loudspeaker**  
Optional accessory:  
Type of Protection: **db eb mb tb**  
Marking: Ex db eb mb IIB+H2 T4 Gb  
Ex db eb mb IIC T4 Gb  
Ex tb IIIC T105°C Db

Approved for issue on behalf of the IECEx  
Certification Body:

**Asle Kaastad**

Position:

**Certification Manager**

Signature:  
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting [www.iecex.com](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**DNV Product Assurance AS**  
Veritasveien 3  
Hovik 1363  
Norway





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Date of issue: 2021-03-12

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Manufacturer: **DNH AS**  
Gruveveien 2-6  
N-3770 Kragerø  
Norway

Additional  
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 60079-1:2014-06** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

**IEC 60079-18:2014** Explosive atmospheres – Part 18: Equipment protection by encapsulation "m"  
Edition:4.0

**IEC 60079-31:2013** Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

**IEC 60079-7:2015** Explosive atmospheres – Part 7: Equipment protection by increased safety "e"  
Edition:5.0

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:

[NO/PRE/ExTR18.0081/01](#)

Quality Assessment Report:

[NO/NEM/QAR08.0003/11](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Loudspeaker with or without transformer. T in the type designation indicates design with transformer. Terminal and transformer in Ex e-enclosure. Transformer may be encapsulated in Ex e-enclosure.

Flameproof enclosure has sinter metal in sound opening and cemented joints.

The loudspeaker has sintered metal of bronze for use in gas group IIB + H2 or alternatively stainless steel for use in gas group IIC.

**Voltage:**100V.

**Current, max.:**0,25A

**Ingress protection:** IP66 and IP67 according to IEC 60529 Edition 2.1.

### Variants:

1. "MF" in type designation indicates encapsulated e-chamber and permanently connected cable.
2. "L" in type designation indicates long flare

Type	Marking	Amb. temp.	Freq. range
DSP-15EExmN(T)	Ex db eb mb IIB+H2 T4 Gb Ex db eb mb IIC T4 Gb Ex tb IIIC T105°C Db	-50°C ≤ Ta ≤ +60°C	150-20000HZ
DSP-15EExmNM(T)	Ex db eb mb IIB+H2 T4 Gb Ex db eb mb IIC T4 Gb Ex tb IIIC T105°C Db	-50°C ≤ Ta ≤ +60°C	150-20000HZ

### SPECIFIC CONDITIONS OF USE: YES as shown below:

- The Loudspeaker shall only be installed in areas where there is a low risk of impact.
- When the bracket of the loudspeaker is mounted onto the construction, the bracket must be connected to earth potential through the construction.



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

Issue 1: Update to the latest edition of standards. LH3 variants removed.