IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.: IECEx PRE 18.0072X

Issue No: 0

Certificate history:
Issue No. 0 (2018-11-13)

Status: **Current**

Date of Issue: **2018-11-13**

Applicant: **DNH AS**
Gruveveien 4
N-3770 Kragerø
Norway

Equipment: **Loudspeaker**

Optional accessory:

Type of Protection: **db eb mb tb**

Marking:

DSP-15EExmN(T): Ex db eb mb IIB+H2/IIC T4 Gb
Ex tb III C T105°C, -50°C ≤ Ta ≤ +60°C
DSP-15EExmNM(T): Ex db eb mb IIB+H2/IIC T4 Gb
Ex tb III C T105°C, -50°C ≤ Ta ≤ +60°C
LH3-UC25XS: Ex db eb mb IIB+H2 T4 Gb
Ex tb III C T105°C, -50°C ≤ Ta ≤ +60°C
LH3-UC25XL: Ex db eb mb IIB+H2 T4 Gb
Ex tb III C T105°C, -50°C ≤ Ta ≤ +60°C
LH3-UC25XS-1: Ex db eb mb IIC T4 Gb
Ex tb III C T105°C, -50°C ≤ Ta ≤ +60°C
LH3-UC25XL-1: Ex db eb mb IIC T4 Gb
Ex tb III C T105°C, -50°C ≤ Ta ≤ +60°C

Approved for issue on behalf of the IECEx Certification Body: Asle Kaastad

Position: Certification Manager

Signature:
(for printed version)

Asle Kaastad

Date: 2018-11-13

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 the Official IECEx Website.

Certificate issued by:

DNV GL Nemko Presafe AS
Veritasveien 3
1363 Høvik
Norway

Presafe
A DNV GL & NEMKO COMPANY

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

Additional Manufacturing location(s):

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 apparatus 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 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-18 : 2014 Edition:4.0	Explosive atmospheres – Part 18: Equipment protection by encapsulation “m”
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2017 Edition:5.1	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*This Certificate **does not** indicate compliance with electrical 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/ExTR18.0081/00

Quality Assessment Report:

NO/NEM/QAR08.0003/09

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Schedule

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 + H_2 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: With encapsulated e-chamber and permanently connected cable. "L" in type designation indicates long flare
The variants (LH3-UC25XS/-1 and LH3-UC25XL/-1) are limited to the following:
- 100V trafo
- S: Short flare
- L: Long flare
- Alternative power tappings from transformer
- Two additional wires from secondary side of transformer for impedance measurement when it is not operational

Type	Marking	Amb. temp.	Freq. range
DSP-15EExmN(T)	Ex db eb mb IIB+H2/IIC T4 Gb Ex tb III C T105°C	-50°C ≤ Ta ≤ +60°C	150-20000HZ
DSP-15EExmN(T)	Ex db eb mb IIB+H2/IIC T4 Gb Ex tb III C T105°C	-50°C ≤ Ta ≤ +60°C	150-20000HZ
LH3-UC25XS	Ex db eb mb IIB+H2 T4 Gb Ex tb III C T105°C	-50°C ≤ Ta ≤ +60°C	150-20000HZ
LH3-UC25XL	Ex db eb mb IIB+H2 T4 Gb Ex tb III C T105°C	-50°C ≤ Ta ≤ +60°C	150-20000HZ
LH3-UC25XS-1	Ex db eb mb IIC T4 Gb Ex tb III C T105°C	-50°C ≤ Ta ≤ +60°C	150-20000HZ
LH3-UC25XL-1	Ex db eb mb IIC T4 Gb Ex tb III C T105°C	-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.