



国家防爆

Electrical Apparatus for Explosive Atmospheres

# CERTIFICATE OF CONFORMITY

Cert. No.: CNEx17.1370X

**Manufacturer** DNH AS  
 Gruveveien 4, N-3770 Kragerø, Norway

**Name of Product** Loudspeaker

**Type of Product** DSP-15EExmN(T), DSP-15EExmNM(T), LH3-UC25XS,  
 LH3-UC25XL

**Marking** Ex d e mb IIB+H<sub>2</sub>/IIC T4 Gb  
 Ex tb III C T105°C, -50°C ≤ Ta ≤ +60°C

**Drawing No.** 2205-A3, 2206-A3, 1188-A4-F

The drawings, technical documents and the samples are verified and certified according to standard(s) for safety as below:

- GB3836.1-2010 Explosive atmospheres Part 1: Equipment-General requirements
- GB3836.2-2010 Explosive atmospheres Part 2: Flameproof enclosure 'd'
- GB3836.3-2010 Explosive atmospheres Part 3: Equipment protection by increased safety"e"
- GB3836.9-2014 Explosive atmospheres Part 4: Equipment protection by type of protection"m"
- IEC60079-31: 2008 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure 't'

**Note** See Annex (1 page).

**Valid Date** From Apr 28, 2017 to Apr 27, 2022

**Issue Date** Apr 28, 2017

**Director**



**CHINA NATIONAL QUALITY SUPERVISION AND TEST CENTRE  
 FOR EXPLOSION PROTECTED ELECTRICAL PRODUCTS**

Address: No.20 North Zhongjing Rd, Nanyang, Henan(473008), P.R.China

Tel: 0377-63258564 Fax: 0377-63208175 [Http://www.china-ex.com](http://www.china-ex.com)

Note: This certificate is only valid for the products which identify with the sample(s) tested and verified. Holder(s) of this certificate have the responsibility to ensure the products complying with relevant standard(s).



国家防爆

Electrical Apparatus for Explosive Atmospheres

# CERTIFICATE OF CONFORMITY

Cert. No.: CNEx17.1370X

Page 1 of 1

1. This product has obtained IECEx certificate, Cert. No.: IECEx NEM 05.0005X, issue 6 (2016-9-14).
2. Equipment description:  
 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<sub>2</sub> 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 and LH3-UC25XL) are limited to the following:
  - Ex d e mb IIB+H<sub>2</sub> T4 Gb and Ex tb III C T105°C
  - 100V trafo
  - S: Short flare
  - L: Long flare
  - Alternative power tapplings from transformer
  - Two additional wires from secondary side of transformer for impedance measurement when it is not operational
3. Special conditions for safe use
  - 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.

Issue Date            Apr 28, 2017

Director



**CHINA NATIONAL QUALITY SUPERVISION AND TEST CENTRE  
FOR EXPLOSION PROTECTED ELECTRICAL PRODUCTS**

Address: No.20 North Zhongjing Rd, Nanyang, Henan(473003), P.R.China  
Tel: 0377-63258564 Fax: 0377-63208175 Http://www.china-ex.com



Note: This certificate is only valid for the products which identify with the sample(s) tested and verified. Holder(s) of this certificate have the responsibility to ensure the products complying with relevant standard(s).



国家防爆

防爆电气设备

# 防爆合格证

编号: CNEx17.1370X

制造单位 DNHAS  
 Gruveveien 4, N-3770 Kragerø, Norway

产品名称 防爆扬声器

型号规格 DSP-15EExmN(T), DSP-15EExmNM(T), LH3-UC25XS,  
 LH3-UC25XL

防爆标志 Ex d e mb IIB+H<sub>2</sub>/IIC T4 Gb  
 Ex tb III C T105°C, -50°C ≤ Ta ≤ +60°C

总装图号 2205-A3, 2206-A3, 1188-A4-F

经对上述产品图样及技术文件的审查和样品检验, 确认符合下列标准:

GB3836.1-2010 《爆炸性环境第1部分: 设备 通用要求》

GB3836.2-2010 《爆炸性环境 第2部分: 由隔爆外壳“d”保护的设备》

GB3836.3-2010 《爆炸性环境 第3部分: 由增安型“e”保护的设备》

GB3836.9-2014 《爆炸性环境 第9部分: 由浇封型“m”保护的设备》

IEC60079-31: 2008 《爆炸性环境 第31部分: 设备粉尘点燃保护外壳“t”》

记事 见附页(共1页)。

本证有效期 2017年4月28日至2022年4月27日

颁发日期 2017年4月28日

中心主任



## 国家防爆电气产品质量监督检验中心



地址: 中国河南省南阳市仲景北路20号 邮政编码: 473008

电话: 0377-63258564 传真: 0377-63208175 [Http://www.china-ex.com](http://www.china-ex.com)



国家防爆

防爆电气设备

# 防爆合格证(附页)

编号: CNEx17.1370X

第1页, 共1页

1. 本产品已取得 IECEX 证书, 编号: IECEX NEM 05.0005X, 第6版 (2016-9-14)。

2. 设备描述:

扬声器可选配变压器。型号中的 T 即为带有变压器。接线端子和变压器置于增安外壳内, 变压器可以在增安盒内浇封。隔爆外壳出声口处烧结金属片胶粘处理。烧结金属片选用铜材质时, 设备可用于 IIB+H<sub>2</sub> 气体环境; 选用不锈钢材质时, 可用于 IIC 气体环境。

电压: 100V

最大电流: 0.25A

IP 防护等级: IP66或 IP67

当选用增安盒和永久连接电缆时, 型号中的“L”指长电缆。

本产品涵盖一下型号 LH3-UC25XS 和 LH3-UC25XL:

- 防爆标志为 Ex d e mb IIB+H<sub>2</sub> T4 Gb 和 Ex tb III C T105° C

- 100V 变压器

- S: 短电缆

- L: 长电缆

- 可选的变压器电源接口

- 变压器副边两条附加的电缆用于停止运转时的阻抗测量

3. 安全使用条件

- 该产品只能安装在低能量冲击的区域;

- 当扬声器支架安装于框架时, 支架必须通过框架接地。

颁发日期 2017年4月28日

中心主任



## 国家防爆电气产品质量监督检验中心

地址: 中国河南省南阳市仲景北路20号 邮政编码: 473008

电话: 0377-63258564 传真: 0377-63208175 [Http://www.china-ex.com](http://www.china-ex.com)

