



## UNITED KINGDOM CONFORMITY ASSESSMENT

### UK TYPE EXAMINATION CERTIFICATE

Equipment or Protective System Intended for use in Potentially Explosive Atmospheres

#### UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

Certificate Number: **CSAE 21UKEX1558X** Issue: **1**

Product: **GNEx Series Sounder / Loudspeaker**

Manufacturer: **European Safety System Limited**

Address: **Impress House  
Mansell Road  
Acton  
London W3 7QH  
UK**

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

CSA Group Testing UK Limited, Approved Body number 0518, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), 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 Schedule 1 of the Regulations. The examination and test results are recorded in the confidential reports listed in Section 14.2.

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

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

Except in respect of those requirements listed at Section 16 of the schedule to this certificate. The above standards may not appear on the UKAS Scope of Accreditation, but have been added through flexible scope of accreditation, which is available on request.

If the sign 'X' is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use identified in the schedule to this certificate.

This UK TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

The marking of this product shall be in accordance with Regulation 41 and include the following:



II 2G  
Ex db II\* T\* Gb  
Ta = -\*°C to +\*°C  
\* Refer to the schedule

Name: M Halliwell  
Title: Senior Director of Operations



Certificate No. **CSAE 21UKEX1558X**  
CSA Group Testing UK Ltd., Unit 6 Hawarden Industrial Park, Hawarden, CH5 3US, UK

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#### 13 DESCRIPTION OF PRODUCT

The GNEx Series Sounder/Loudspeaker consists of a GRP, flameproof enclosure which contains a pressure unit that generates sound, control circuitry and terminals for connection to external circuits. The enclosure has a pressed metal wire element which is cemented into the enclosure for the transmission of sound from the enclosure. The enclosure has a threaded lid for access and cable entry is via up to two, M20 x 1.5 threaded entries. Internal earthing facilities are provided, additionally an external earthing facility is provided.

The equipment has the following gas groups, temperature classes and ambient temperature ranges which are dependent upon the routine pressure test applied.

\*Temperature class, gas group and ambient temperature range is indicated in the table below:

| Type (Description)                       | Option (Rating)               | Gas group | Temp. class | Ambient temp.  |
|------------------------------------------|-------------------------------|-----------|-------------|----------------|
| GNExS1R<br>GNExS1F<br>Sounder            | GNExS1RDC024-A (10 – 60Vdc)   | IIC       | T4          | -20°C to +50°C |
|                                          | GNExS1RDC024-S (20 – 28Vdc)   |           |             | -50°C to +50°C |
|                                          | GNExS1FDC024-A (10 – 60Vdc)   |           |             | -60°C to +50°C |
|                                          | GNExS1FDC024-S (20 – 28Vdc)   | IIC       | T3          | -20°C to +70°C |
|                                          | GNExS1RAC230-A (100 – 260Vac) |           |             | -50°C to +70°C |
|                                          | GNExS1FAC230-A (100 – 260Vac) |           |             | -60°C to +70°C |
|                                          |                               | IIB       | T6          | -20°C to +50°C |
|                                          |                               |           |             | -50°C to +50°C |
|                                          |                               |           |             | -60°C to +50°C |
|                                          |                               | IIB       | T5          | -20°C to +65°C |
|                                          |                               |           |             | -50°C to +65°C |
|                                          |                               |           |             | -60°C to +65°C |
|                                          |                               | IIB       | T4          | -20°C to +70°C |
|                                          |                               |           |             | -50°C to +70°C |
|                                          |                               |           |             | -60°C to +70°C |
| GNExS2R<br>GNExS2F<br>GNExS2H<br>Sounder | GNExS2RDC024-A (10 – 60Vdc)   | IIC       | T4          | -20°C to +50°C |
|                                          | GNExS2RDC024-S (20 – 28Vdc)   |           |             | -50°C to +50°C |
|                                          | GNExS2FDC024-A (10 – 60Vdc)   |           |             | -60°C to +50°C |
|                                          | GNExS2FDC024-S (20 – 28Vdc)   | IIC       | T3          | -20°C to +58°C |
|                                          | GNExS2HDC024-A (10 – 60Vdc)   |           |             | -50°C to +58°C |
|                                          | GNExS2HDC024-S (20 – 28Vdc)   |           |             | -60°C to +58°C |
|                                          | GNExS2RAC230-A (100 – 260Vac) | IIB       | T6          | -20°C to +50°C |
|                                          | GNExS2FAC230-A (100 – 260Vac) |           |             | -50°C to +50°C |
|                                          | GNExS2HAC230-A (100 – 260Vac) |           |             | -60°C to +50°C |
|                                          |                               | IIB       | T5          | -20°C to +58°C |
|                                          |                               |           |             | -50°C to +58°C |
|                                          |                               |           |             | -60°C to +58°C |
| GNExL1R<br>GNExL1F<br>Loudspeaker        | GNExL1RV100 (100/70V Line)    | IIC       | T4          | -20°C to +50°C |
|                                          | GNExL1FV100 (100/70V Line)    |           |             | -50°C to +50°C |
|                                          | GNExL1RR016 (16 Ohm)          |           |             | -60°C to +50°C |
|                                          | GNExL1FR016 (16 Ohm)          | IIC       | T3          | -20°C to +70°C |
|                                          | GNExL1RR008 (8 Ohm)           |           |             | -50°C to +70°C |
|                                          | GNExL1FR008 (8 Ohm)           |           |             | -60°C to +70°C |

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| Type (Description)                           | Option (Rating)            | Gas group | Temp. class | Ambient temp.                                      |
|----------------------------------------------|----------------------------|-----------|-------------|----------------------------------------------------|
|                                              |                            | IIB       | T6          | -20°C to +50°C<br>-50°C to +50°C<br>-60°C to +50°C |
|                                              |                            | IIB       | T5          | -20°C to +65°C<br>-50°C to +65°C<br>-60°C to +65°C |
|                                              |                            | IIB       | T4          | -20°C to +70°C<br>-50°C to +70°C<br>-60°C to +70°C |
| GNExL2R<br>GNExL2F<br>GNExL2H<br>Loudspeaker | GNExL2RV100 (100/70V Line) | IIC       | T4          | -20°C to +50°C<br>-50°C to +50°C<br>-60°C to +50°C |
|                                              | GNExL2FV100 (100/70V Line) | IIC       | T3          | -20°C to +65°C<br>-50°C to +65°C<br>-60°C to +65°C |
|                                              | GNExL2HV100 (100/70V Line) |           |             |                                                    |
|                                              | GNExL2RR016 (16 Ohm)       |           |             |                                                    |
|                                              | GNExL2FR016 (16 Ohm)       | IIB       | T6          | -20°C to +50°C<br>-50°C to +50°C<br>-60°C to +50°C |
|                                              | GNExL2HR016 (16 Ohm)       |           |             |                                                    |
|                                              | GNExL2RR008 (8 Ohm)        | IIB       | T5          | -20°C to +65°C<br>-50°C to +65°C<br>-60°C to +65°C |
|                                              | GNExL2FR008 (8 Ohm)        |           |             |                                                    |
|                                              | GNExL2HR008 (8 Ohm)        |           |             |                                                    |

#### Incorporated amendments

The product description includes the following applicable amendments from the previous supporting assessments. The amendments are numbered to include a reference to the variation at which these were introduced.

**Amendment 1** – This variation introduced the following changes:

- Following appropriate assessment to demonstrate compliance with the latest technical knowledge, EN 60079-0:2012 was replaced by EN IEC 60079-0:2018 and EN 60079-1:2007 was replaced by EN 60079-1 :2014 A/C:2018.
- Re-introduction of the Conditions of Manufacture which were deleted from the previous Certificate issue.

**Amendment 2** - This variation introduced the following change:

- Transfer of certificate 13ATEX1139X the Notified Body Sira Certification Services to the Notified Body CSA Group Netherlands B.V.

**Variation 1** - This variation introduced the following changes:

- To allow a revised PCBA design including revision of electrical ratings.
- To allow an optional SIL diagnostics board including revision of electrical ratings.
- To allow the introduction of alternative horn types.
- To remove the 48Vdc sounder.
- To update the specific conditions of use and production control.



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#### 14 DESCRIPTIVE DOCUMENTS

##### 14.1 Drawings

Refer to Certificate Annexe.

##### 14.2 Associated Reports and Certificate History

| Issue | Date         | Report number | Comment                               |
|-------|--------------|---------------|---------------------------------------|
| 0     | 27 June 2022 | R80072291G    | The release of the prime certificate. |
| 1     | 26 June 2025 | R80216198A    | The introduction of Variation 1.      |

#### 15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

15.1 The enclosure is non-conducting and, under certain extreme conditions, may generate an ignition-capable level of electrostatic charges. The user shall ensure that the equipment is not installed in a location where it may be subjected to external conditions (such as high-pressure steam) which might cause a build-up of electrostatic charges on non-conducting surfaces. Additionally, cleaning of the equipment should be done only with a damp cloth.

15.2 Flameproof joints, General requirements - joints shall not be repaired or modified in any way.

#### 16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS (REGULATIONS SCHEDULE 1)

In addition to the Essential Health and Safety Requirements covered by the standards listed in Section 9, all other requirements are demonstrated in the relevant reports.

#### 17 PRODUCTION CONTROL

17.1 Holders of this certificate are required to comply with production control requirements defined in Schedule 3A, as applicable, and CSA Group Testing UK Regulations for Certificate Holders.

17.2 Each enclosure shall be subjected to a routine overpressure test at a pressure as detailed on drawing number D157-99-001-SC, with respect to the lower ambient temperature rating of the equipment. The routine pressure test shall be applied for at least 10 seconds as required by EN 60079-1:2014 + AC:2018 clause 16.1. There shall be no permanent deformation or damage to the enclosure and there shall be no leakage through the enclosure wall.



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## Certificate Annexe

**Certificate Number:** CSAE 21UKEX1558X  
**Product:** GNEx Series Sounder/Loudspeaker  
**Manufacturer:** European Safety System Limited

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### Issue 0

| Drawing              | Sheets | Rev. | Date (Stamp) | Title                                                 |
|----------------------|--------|------|--------------|-------------------------------------------------------|
| D2428                | 1 of 1 | A    | 19 Jul 13    | Pressed Metal Wire Element                            |
| D157-99-001-SC-UK    | 1 of 1 | 1    | 05 May 22    | GNExS2 and GNExS1 Ex 'd' SOUNDER PRODUCT LABEL – UKEx |
| D157-00-001-IS-SC-UK | 1 to 3 | 1    | 05 May 22    | GNEx Sounder/Loudspeaker Instructions Declarations    |

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| Drawing        | Sheets | Rev. | Date (Stamp) | Title                                                            |
|----------------|--------|------|--------------|------------------------------------------------------------------|
| D157-99-001-SC | 1 of 1 | 5    | 11 Jun 25    | GNExS2 and GNExS1 Ex 'd' SOUNDER GNExL1 and GNExL2 PRODUCT LABEL |
| D157-00-001-SC | 1 to 2 | D    | 09 Jun 25    | GNExS1 & S2 SOUNDERS UNITS & GNExL1 & L2 LOUDSPEAKER UNITS       |

