1 # EU - TYPE EXAMINATION CERTIFICATE

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres**
Directive 2014/34/EU

3 EU - Type Examination Certificate Number: **Baseefa15ATEX0155X – Issue 6**

3.1 In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

4 Product: **Global Series Modular Audible Device**

5 Manufacturer: **Federal Signal Corporation**

6 Address: **2645 Federal Signal Drive, University Park, Illinois, 60484, USA**

7 This re-issued certificate extends EC Type Examination Certificate No. **Baseefa15ATEX0155X** to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

8 SGS Fimko Oy, Notified Body number 0598, in accordance with Article 17 of 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.

8.1 The original certificate was issued by SGS Baseefa Ltd (UK Notified Body 1180). It, and any supplements previously issued by SGS Baseefa Ltd have been transferred to the supervision of SGS Fimko Oy (EU Notified Body 0598). The original certificate number is retained.

The examination and test results are recorded in confidential Report No. **See Certificate History.**

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

EN IEC 60079-0:2018 **EN 60079-1:2014** **EN IEC 60079-7:2015+A1:2018** **EN 60079-31:2014**

except in respect of those requirements listed at item 18 of the Schedule.

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

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

12 The marking of the product shall include the following:

II 2 GD Ex db IIB T5 Gb or Ex db eb IIB T5 Gb
Ex tb IIIC T100°C Db IP66 (Tamb = -55°C to +49°C)
II 2 GD Ex db IIC T4 Gb or Ex db eb IIC T4 Gb
Ex tb IIIC T135°C Db IP66 (Tamb = -55°C to +70°C)

SGS Fimko Oy Customer Reference No. **5121** Project File No. **23/0127**

SGS Fimko Oy
Takomotie 8
FI-00380 Helsinki, Finland
Telephone +358 (0)9 696 361
e-mail sgs.fimko@sgs.com
web site www.sgs.fi
Business ID 0978538-5 Member of the SGS Group (SGA SA)

Mikko Välimäki
SGS Fimko Oy

13 # Schedule

14 ## Certificate Number Baseefa15ATEX0155X – Issue 6

15 Description of Product

The Global Series Modular Audible Device comes in three forms: an Audible Sounder, an Audible Amplified Speaker and an Audible Loudspeaker. The devices have an ingress protection rating of IP66 and have an electrical rating as per the table below:-

Audible Sounder	24Vdc 460mA	110Vac 140mA	240Vac 80mA
Audible Amplified Speaker	24Vdc 370mA	110Vac 60mA	240Vac 40mA
Audible Loudspeaker	-	70Vac 160 mA	100Vac 110mA

The Global Series Modular Audible Device comprises a non-metallic flameproof Audio Device enclosure, which may be used with optional increased safety terminal enclosures.

The flameproof Audible Device enclosure is in two parts, that are screwed together to form a threaded flameproof joint. Entry to the internal electronics is via this threaded joint, which is additionally retained by a hexagon socket set screw. The bottom half of the enclosure has two entry holes to provide electrical connections. The top half of the enclosure is an audible cap with an integral sinter at the base to allow for the emergence of sound from the respective electrical Audible Device inside the flameproof enclosure.

When the optional increased safety terminal enclosures are used, a line bushing to IECEx EPS 11.0004X is fitted to provide conductor egress from the flameproof enclosure for connection inside the increased safety enclosure. Component certified terminals to IECEx PTB 05.0003U or IECEx PTB 08.0048U are used.

Cable entry holes are provided as specified in the certification drawings for the accommodation of cable entry devices, with or without the interposition of a thread adaptor. Unused entries are to be fitted with certified stopping plugs.

The cable entry devices, thread adapters and stopping plugs shall be suitable for the equipment, the cable and the conditions of use and shall be certified as Equipment (not a Component).

When used in a potentially explosive dust atmosphere, the cable entry devices shall maintain the ingress protection of the enclosure.

16 Report Number

See Certificate History.

17 Specific Conditions of Use

1. The Modular Audible Device enclosure incorporates a sinter and the volume is greater than 100cm3, therefore the use of the Modular Audible Device in carbon disulphide gas atmospheres is not permitted.
2. The Modular Audible Device has external non-metallic surfaces which may provide a potential electrostatic charging hazard. See the manufacturer's instructions for further information.
3. The Modular Audible Device has metallic components in the non-metallic walls of the enclosure which can store electrical charge and therefore may provide a potential electrostatic charging hazard. The metallic brass inserts have a capacitance of 14 pF. See the manufacturer's instructions for further information.

18 Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
1.2.7	LVD type requirements
1.2.8	Overloading of equipment (protection relays, etc.)
1.4.1	External effects
1.4.2	Aggressive substances, etc.

19 Drawings and Documents

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
850000298		A9	06/30/23	SCHEDULE ASSEMBLY, GLOBAL SERIES, IEC MODULAR AUDIBLE DEVICE
850000301*		A8	06/08/23	SCHEDULE ASSEMBLY, GLOBAL SERIES, IEC MODULAR 'e' BOX w/OPTIONS
850000307		A6	08/30/23	SCHEDULE DWG, NAMEPLATE, MODULAR AUDIBLE SOUNDER, GLOBAL SERIES
850000308		A6	08/30/23	SCHEDULE DWG, NAMEPLATE, MODULAR AUDIBLE AMP. SPKR, GLOBAL SERIES
850000309		A8	08/30/23	SCHEDULE DWG, NAMEPLATE, MODULAR AUD. LOUDSPEAKER, GLOBAL SERIES
850000571A*		A1	06/08/23	SCHEDULE SUB-ASSY, GLOBAL SERIES COUPLER FLANGE, BASE MODULE TO EBOX OPTION

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
850000310		A4	9/10/15	Schedule Sub-Assy, Audible Cap, IEC Modular, Global Series
850000302*		A4	10/7/15	Schedule Assembly, 1600 Series, IEC Modular Array Configurations

These drawings are common to Baseefa15ATEX0155X and IECEx BAS 15.0104X and are held with the latter.

*These drawings are common to Baseefa15ATEX0153X, Baseefa15ATEX0154X, Baseefa15ATEX0155X, IECEx BAS 15.0104X, IECEx BAS 15.0102X and are held with IECEx BAS 15.0103X.

20 Certificate History

Certificate No.	Date	Comments
Baseefa15ATEX0155X	23rd October 2015	The release of the prime certificate. The associated test and assessment against the requirements of EN 60079-0:2012+A11:2013, EN 60079-1:2014, EN 60079-7:2007 and EN 60079-31:2014 is documented in Test Report No GB/BAS/ExTR15.0132/00 and Project File 14/0842.

Certificate No.	Date	Comments
Baseefa15ATEX0155X /1	10th August 2016	To permit an increase in maximum ambient temperature at T4/T135°C temperature class to +70°C and a change in the marking code as follows: ⟨Ex⟩ II 2 GD Ex db IIB T5 Gb or Ex db e IIB T5 Gb Ex tb IIIC T100°C Db IP66 (T_{amb} = -50°C to + 49°C) Ex db IIC T4 Gb or Ex db e IIC T4 Gb Ex tb IIIC T135°C Db IP66 (T_{amb} = -50°C to + 70°C) And to clarify that the optional increased safety terminal enclosures have been subject to dielectric strength tests in accordance with EN 60079-7:20017 Clause 6.1. The associated test and assessment is recorded in GB/BAS/ExTR16.0126/00 and Project File 16/0332.
Baseefa15ATEX0155X/2	23rd August 2016	To clarify that the optional increased safety terminal enclosures have been subjected to dielectric strength tests at 1500Vac. The associated test and assessment is recorded in GB/BAS/ExTR16.0228/00 and Project File 16/0332.
Baseefa15ATEX0155X/3	12th October 2016	To allow the introduction of an optional part known as the 90°coupler to allow the terminal box to be mounted at a 90° orientation. The associated test and assessment is recorded in GB/BAS/ExTR16.0279/00 and Project File 16/0716.
Baseefa15ATEX0155X Issue 4	1st March 2017	This issue of the certificate incorporates previously issued primary & supplementary certificates into one certificate permits a lower ambient temperature of -55°C. The associated test and assessment is recorded in GB/BAS/ExTR17.0045/00 and Project File 17/0122.
Baseefa15ATEX0155X Issue 5	31st July 2018	The manufacturer has requested minor correction to schedule drawing revision numbers and enclosure wall thickness. The full assessment is recorded in GB/BAS/ExTR18.0180/00 project file number 18/0442.
Baseefa15ATEX0155X Issue 6	1 September 2023	To assess the equipment against EN IEC 60079-0:2018 and EN IEC 60079-7:2015+A1:2018. To amend the nameplate to include UKEX certificate numbers. SGS Baseefa certification report GB/SGS/ExTR23.0026/00 refers.
For drawings applicable to each issue, see original of that issue.		