

1 **EC - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres  
Directive 94/9/EC**

3 EC - Type Examination Certificate Number: **Baseefa15ATEX0155X**

4 Equipment or Protective System: **Global Series Modular Audible Device**

5 Manufacturer: **Federal Signal Corporation**

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

7 This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Baseefa, Notified Body number 1180, in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No. **GB/BAS/ExTR15.0132/00**

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

**EN 60079-0: 2012 + A11: 2013 EN 60079-1: 2014 EN 60079-7: 2007 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 equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

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

12 The marking of the equipment or protective system shall include the following :

**⊕ II 2 GD Ex db IIB T5 Gb or Ex db e IIB T5 Gb**  
**Ex tb IIIC T100°C Db IP 66 (T<sub>amb</sub> = -50°C to +49°C)**

**⊕ II 2 GD Ex db IIC T4 Gb or Ex db e ICT4 Gb**  
**Ex tb IIIC T135°C Db IP 66 (T<sub>amb</sub> = -50°C to +60°C)**

Baseefa Customer Reference No. **5121**

Project File No. **14/0842**

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**R S SINCLAIR**  
GENERAL MANAGER

On behalf of SGS Baseefa Limited

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## Schedule

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### Certificate Number Baseefa15ATEX0155X

#### 15 Description of Equipment or Protective System

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

SGS Baseefa Certification Report GB/BAS/ExTR15.0132/00.

#### 17 Specific Conditions of Use

1. The Modular Audible Device enclosure incorporates a sinter and the volume is greater than 100cm<sup>3</sup>, 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**

All relevant Essential Health and Safety Requirements are covered by the standards listed at item 9.

**19 Drawings and Documents**

Number	Sheet	Issue	Date	Description
850000298*	1 of 1	A5	9/10/15	Schedule Assembly, Global Series, IEC Modular Audible Device
850000310*	1 of 1	A4	9/10/15	Schedule Sub-Assy, Audible Cap, IEC Modular, Global Series
850000301**	1 of 1	A3	10/7/15	Schedule Assembly, Global Series, IEC Modular "e" box w/Options
850000302**	1 of 1	A3	10/7/15	Schedule Assembly, 1600 Series, IEC Modular Array Configurations
850000307*	1 of 1	A3	10/20/15	Scheduled DWG, Nameplate, Modular Audible Sounder, Global Series
850000308*	1 of 1	A3	10/20/15	Scheduled DWG, Nameplate, Modular Audible Amplified Speaker, Global Series
850000309*	1 of 1	A5	10/20/15	Scheduled DWG, Nameplate, Modular Audible Loudspeaker Strobe, Global Series

\* 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 15.0103X, IECEx BAS 15.0104X and IECEx BAS 15.0102X and are held with IECEx BAS 15.0103X.