



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: **Baseefa03ATEX0688X**

4 Equipment or Protective System: **110 SERIES OF IIB LOUDSPEAKERS & SOUNDERS**

5 Manufacturer: **VICTOR PRODUCTS LIMITED**

6 Address: **New York Way, Newcastle-upon-Tyne NE27 0QF**

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 (2001) Ltd. 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. 03(C)0692

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

**EN 50014: 1997 + Amendments 1 & 2 EN 50018: 2000 + Amendment 1 EN 50019: 2000**

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 G EEx d IIB T6 (T<sub>amb</sub> -20°C to +40°C) or ⊕ II 2 G EEx de IIB T6 (T<sub>amb</sub> -20°C to +40°C)  
T5 (T<sub>amb</sub> -20°C to +55°C) T5 (T<sub>amb</sub> -20°C to +55°C)  
T4 (T<sub>amb</sub> -20°C to +70°C) T4 (T<sub>amb</sub> -20°C to +70°C)

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa (2001) Ltd. Customer Reference No. 1186

Project File No. 03/0692

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

**Baseefa (2001) Ltd.**

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R S SINCLAIR

DIRECTOR

On behalf of  
Baseefa (2001) Ltd.

13

## Schedule

14

**Certificate Number Baseefa03ATEX0688X**

### 15 Description of Equipment or Protective System

The **110 Series IIB Loudspeakers & Sounders** are rated at up to 15W, 240V and are cast in aluminium alloy. The enclosure comprises a square body shell with a horn assembly, incorporating a sintered metal disc closing the front and a flat terminal cover closing the rear. The horn assembly and terminal cover both have spigot joints and each is attached using four M5 by 16mm long socket head cap screws of grade 8.8 minimum.

The housing may contain any or all of the following components:-

- a. An acoustic driver unit.
- b. A transformer.
- c. A printed circuit board.
- d. A terminal block with up to 8 ways

Internal and external earthing facilities are provided.

Up to two M20 cable entry holes are provided for the accommodation of flameproof cable entry devices, with or without the interposition of a flameproof thread adapter. Unused entries are to be fitted with suitable certified flameproof 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) under an EC Type Examination Certificate to Directive 94/9/EC.

#### Variation 0.1

An alternative arrangement with an Increased Safety terminal chamber partitioned off at the rear, rated up to 100V, 15W.

In this form, the enclosure body has a cast partition separating the flameproof and increased safety chambers with a line bushing to EC Type Examination Certificate PTB97ATEX1047U passing between.

In addition the terminal chamber is fitted with a 6 way terminal block to EC Type Examination Certificate BAS98ATEX3048U or SIRA01ATEX3247U.

#### Variation 0.2

An optional alternative type designation of YODALARM TYPE Y07E/B for the flameproof unit only.

### 16 Report Number

Baseefa Certification Report No. 03(C)0692

### 17 Special Conditions for Safe Use

1. The maximum flamepath gaps shall not exceed those specified for the IIC gas group by EN50018: 2000.
2. Within the increased safety (EEx e) terminal box the following conditions apply:-
  - 2.1. Not more than one single or multiple strand lead shall be connected into either side of any terminal, unless multiple conductors have been joined in a suitable manner, e.g. two conductors into a single insulated crimped boot lace ferrule.



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2.2 Leads connected to the terminals shall be insulated for the appropriate voltage and this insulation shall extend to within 1mm of the metal of the terminal throat.

2.3 All terminal screws, used and unused, shall be tightened down to between 0.5Nm and 0.7Nm.

**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	Issue	Date	Description
LA379 Sheets 1 & 2	1	25/09/03	General Arrangement, 110 Series of Loudspeakers/Sounders

These drawings are common to Baseefa03ATEX0689X



1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

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

3 Supplementary EC - Type Examination Certificate Number: **Baseefa03ATEX0688X/1**

4 Equipment or Protective System: **110 Series of IIB Loudspeakers & Sounders**

5 Manufacturer: **Federal Signal Corporation**

6 Address: **2645 Federal Signal Drive, University Park, Illinois 60466-3195, USA**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa03ATEX0688X** to apply to equipment or protective systems 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.

This supplementary certificate shall be held with the original certificate.

This certificate may only be reproduced in its entirety, without any change, schedule included.

Baseefa Customer Reference No. **5121**

Project File No. **05/0243**

This certificate is granted subject to the general terms and conditions of Baseefa (2001) Ltd. It does not necessarily indicate that the equipment may be used in particular industries or circumstances.

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**R S SINCLAIR**  
**DIRECTOR**  
On behalf of  
Baseefa (2001) Ltd.



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## Schedule

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**Certificate Number Baseefa03ATEX0688X/1**

15

### **Description of the variation to the Equipment or Protective System**

#### **Variation 1.1**

To permit grade A4130 aluminium alloy as an alternative material of construction, minor modifications, and new certification drawings to reflect a change in manufacturing site.

Drawings LA379 Sheets 1 & 2 are no longer scheduled drawings associated with this certificate.

16

### **Report Number**

None

17

### **Special Conditions for Safe Use**

None additional to those listed previously

18

### **Essential Health and Safety Requirements**

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19

### **Drawings and Documents**

<b>Number</b>	<b>Sheet</b>	<b>Issue</b>	<b>Date</b>	<b>Description</b>
259141A	1	A	03.30.05	General Arrangement – Single Gland Entry
259141A	2	A	03.30.05	General Arrangement – Dual Gland Entry

These drawings are common to Baseefa03ATEX0689X/1.



1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

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

- 3 Supplementary EC - Type Examination Certificate Number: **Baseefa03ATEX0688X/2**
- 4 Equipment or Protective System: **110 Series of IIB Loudspeakers & Sounders**
- 5 Manufacturer: **Federal Signal Corporation**
- 6 Address: **2645 Federal Signal Drive, University Park, Illinois 60466-3195, USA**

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa03ATEX0688X** to apply to equipment or protective systems 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.

This supplementary certificate shall be held with the original certificate.

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Baseefa Customer Reference No. **5121**

Project File No. **06/0467**

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DIRECTOR  
On behalf of  
Baseefa (2001) Ltd.



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## Schedule

14

Certificate Number Baseefa03ATEX0688X/2

15

**Description of the variation to the Equipment or Protective System**

### Variation 2.1

Change of driver and method of mounting.

16

**Report Number**

None

17

**Special Conditions for Safe Use**

None additional to those listed previously

18

**Essential Health and Safety Requirements**

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19

**Drawings and Documents**

Number	Sheet	Issue	Date	Description
259141A	1	A1	06.22.06	General Arrangement – Single Gland Entry
259141A	2	A1	06.22.06	General Arrangement – Dual Gland Entry

These drawings are common to Baseefa03ATEX0689X/1.

1 **SUPPLEMENTARY EC - TYPE EXAMINATION CERTIFICATE**

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

3 Supplementary EC - Type Examination Certificate Number: **Baseefa03ATEX0688X/3**

4 Equipment or Protective System: **110 Series of IIB Loudspeakers & Sounders**

5 Manufacturer: **Federal Signal Corporation**

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

7 This supplementary certificate extends EC – Type Examination Certificate No. **Baseefa03ATEX0688X** to apply to equipment or protective systems 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.

This supplementary certificate shall be held with the original certificate.

Baseefa Customer Reference No. **5121**

Project File No. **15/0622**

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**SGS Baseefa Limited**

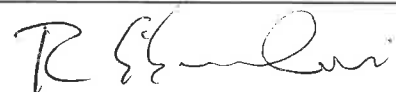
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R S SINCLAIR  
GENERAL MANAGER

On behalf of SGS Baseefa Limited



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13 **Schedule**

14 **Certificate Number Baseefa03ATEX0688X/3**

15 **Description of the variation to the Equipment or Protective System**

**Variation 3.1**

Replacement of the covers fixing screw with stainless steel socket head fastener of grade A2-70 and AS-70 to the certification.

16 **Report Number**

None

17 **Specific Conditions of Use**

None additional to those listed previously

18 **Essential Health and Safety Requirements**

Compliance with the Essential Health and Safety Requirements is not affected by this variation.

19 **Drawings and Documents**

Number	Sheet	Issue	Date	Description
259141-A2	1	A2	11/30/2015	110 Series Range Loud Speaker/Sounders

This drawing is common to this certificate and Baseefa03ATEX0689 and is held with both technical files.



28 August 2012

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### CHANGE REGISTRATION

This is to certify that the following change(s) have been accepted:

Holder of certificate: Federal Signal Corporation  
2645 Federal Signal Drive  
University Park  
Illinois

Change details: **The Post Code of the certificate holder is now:**



Federal Signal Corporation  
2645 Federal Signal Drive  
University Park  
Illinois  
60484

Certificates affected: BAS01ATEX2306X  
Baseefa03ATEX0191 Baseefa03ATEX0688X  
Baseefa03ATEX0689X Baseefa07ATEX0105X  
Baseefa07ATEX0150 Baseefa10ATEX0096X

The purpose of this document is to permit existing information (for example on Certificate Schedule Drawings or label marking) to be replaced by equivalent new information as described above. No other change may be made to the certified design.

#### Baseefa

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