

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 **Baseefa15ATEX0153X – Issue 3**
Number:

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 Visual LED**

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. **Baseefa15ATEX0153X** 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 Baseefa, Notified Body number 1180, 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.

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 60079-0:2012 +A11:2013 EN 60079-1:2014 EN 60079-7:2007 EN 60079-28:2015 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 op is IIC T6 Gb or Ex db e op is IIC T6 Gb ($T_{amb} = -55^{\circ}\text{C}$ to $+58^{\circ}\text{C}$)
Ex op is tb IIC T85°C Db IP66 ($T_{amb} = -55^{\circ}\text{C}$ to $+58^{\circ}\text{C}$)
⊕ II 2 GD Ex db op is IIC T5 Gb or Ex db e op is IIC T5 Gb ($T_{amb} = -55^{\circ}\text{C}$ to $+70^{\circ}\text{C}$)
Ex op is tb IIC T100°C Db IP66 ($T_{amb} = -55^{\circ}\text{C}$ to $+70^{\circ}\text{C}$)

SGS Baseefa Customer Reference No. **5121**

Project File No. **18/0442**

This document is issued by the Company subject to its General Conditions for Certification Services accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and the Supplementary Terms and Conditions accessible at <http://www.sgs.com/SGSBaseefa/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. It does not necessarily indicate that the equipment may be used in particular industries or circumstances. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, schedule included, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS Baseefa Limited

Rockhead Business Park, Staden Lane,
Buxton, Derbyshire SK17 9RZ

Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601

e-mail baseefa@sgs.com web site www.sgs.co.uk/sgsbaseefa

Registered in England No. 4305578.

Registered address: Rossmore Business Park, Ellesmere Port, Cheshire, CH65 3EN

R S Sinclair

R S SINCLAIR

TECHNICAL MANAGER

On behalf of SGS Baseefa Limited

13 Schedule

14 Certificate Number Baseefa15ATEX0153X – Issue 3

15 Description of Product

The Global Series Modular Visual LED is rated for 24 Vdc, 300 mA or 110-240 Vac at 120-70 mA and is afforded ingress protection rating IP66. The optical irradiance is less than 5 mW/mm² at the surface of the glass dome.

The Global Series Modular Visual LED comprises a non-metallic flameproof LED array enclosure, which may be used with optional increased safety terminal enclosures.

The flameproof LED 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 has an integral glass dome, covered by a metallic guard. An optional non-metallic clear or coloured lens may be fitted which is not covered by this certificate.

When the optional increased safety terminal enclosures are used, a line bushing to EPS11ATEX1342X is fitted to provide conductor egress from the flameproof enclosure for connection inside the increased safety enclosure. Component certified terminals to PTB03ATEX1189U or PTB08ATEX1075U 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 Visual LED has external non-metallic surfaces which may provide a potential electrostatic charging hazard. See the manufacturer's instructions for further information.
2. The Modular Visual LED 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. The metallic guard has a capacitance of 18 pF. See the manufacturer's instructions for further information.

18 Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) are not affected by this variation.

19 Drawings and Documents

New drawings submitted for this issue of certificate:

Number	Sheet	Issue	Date	Description
850000297	1 of 1	A7	06/28/2018	Schedule Assembly, Global Series, IEC Modular Visual LED
850000301*	1 of 1	A7	02/15/2017	Schedule Assembly, Global Series, IEC Modular “e” box w/Options

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
850000306	1 of 1	A5	02/16/17	Scheduled DWG, Nameplate, Modular Visual LED, Global Series
850000300	1 of 1	A3	09/10/15	Schedule Sub-Assy, LED Visual Cap, Global Series, IEC Mod. Platform
850000302*	1 of 1	A2	09/23/15	Schedule Assembly, 1600 Series, IEC Modular Array Configurations
850000311	1 of 1	A0	11/24/15	Scheduled DWG, LED Light Head, IEC Modular Global Series
850000571A*	1 of 1	A0	10/04/16	Schedule Sub Assembly, Global Series, Coipler flange, base module to E Box option.

These drawings are common to Baseefa15ATEX0153X and IECEx BAS 15.0102X and are held with the latter.

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

20 Certificate History

Certificate No.	Date	Comments
Baseefa15ATEX0153X	9 th December 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, EN 60079-28:2015 and EN 60079-31:2014 is documented in Test Report No GB/BAS/ExTR15.0130/00 and Project File 14/0842.
Baseefa15ATEX0153X/1	12 th 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/ExTR16.0277/00 and Project File 16/0716.
Baseefa15ATEX0153X Issue 2	1 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.
Baseefa15ATEX0153X Issue 3	31 st 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.
For drawings applicable to each issue, see original of that issue.		