



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: **Baseefa07ATEX0150**

4 Equipment or Protective System: **Series 2000 Beacon**

5 Manufacturer: **Federal Signal Corporation**

6 Address: **Federal Signal Drive, University Park, Illinois 60466-3195, 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 (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. **GB/BAS/ExTR07.0081/00**

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

EN 60079-0:2006, EN 60079-1:2004, EN 60079-7:2006, EN 61241-0:2006, EN 61241-1:2004

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 :

Ex II 2GD see schedule for certification marking

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


Baseefa Customer Reference No. 5121

Project File No. 06/1037

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

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



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Schedule

14

Certificate Number Baseefa07ATEX0150

15 Description of Equipment or Protective System

The 2000 Series Beacon is rated at up to 240V a.c. and comprises a base and cover from aluminium alloy. The cover is provided with a cemented wellglass, the cover is secured to the base via four grade A2-70 stainless steel screws.

The beacon may be provided with up to four Xenon Lamps up to a maximum power of 60VA which flash at a maximum rate of 95 flashes a minute, or up to four fluorescent lamps up to a maximum power of 36W, or light emitting diodes (LEDs) rated at up to 9W; in this form the unit is Exd.

Alternatively the base may be drilled and fitted with line bushings terminated within an increased safety terminal box attached to the side of the beacon, which also contains increased safety terminals; in this form the unit is Exde.

In the above forms the Series 2000 Beacon may be marked:-

Ex d IIB T4 ExtD A21 IP66 T135°C (- 40°C ≤ ta ≤ + 70°C) with Xenon or Fluorescent lamps fitted, or

Ex de IIB T4 ExtD A21 IP66 T135°C (- 40°C ≤ ta ≤ + 70°C) when additionally fitted with increased safety terminal box, or

Ex d IIB T6 ExtD A21 IP66 T85°C (- 40°C ≤ ta ≤ + 55°C) with LED lamps fitted, or

Ex de IIB T6 ExtD A21 IP66 T85°C (- 40°C ≤ ta ≤ + 55°C) when additionally fitted with the increased safety terminal box.

To obviate the risk from internal hotspots associated with the Series 2000 Beacon the enclosure must not be opened even when isolated, when a flammable atmosphere is present. A label stating this information is fitted externally to each and every enclosure.

Cable entry holes are provided as specified on the certified drawings 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.

When used in an explosive dust atmosphere the cable entry devices shall maintain the ingress protection of the enclosure

Internal and external earthing facilities are provided.

16 Report Number

Baseefa Certification Report GB/BAS/ExTR07.0081/00

17 Special Conditions for Safe Use

None

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
259110A	A4	6/21/07	General Arrangement 2000 Series Beacon
259111A	A	3/17/05	General Arrangement Xenon Twin Lamp



Number	Issue	Date	Description
259112A	A	3/17/05	General Arrangement Xenon Four Lamp
259113A	A	3/17/05	General Arrangement Fluorescent Twin Lamp
259114A	A	3/17/05	General Arrangement Fluorescent Four Lamp
259206A	A	11/29/06	General Arrangement LED Units
259115A	A	3/17/05	Base Casting Beacon Series 2000
259116A	A1	4/18/07	Base Machining Detail Beacon Series 2000
259117A	A	3/16/05	Cover Casting Beacon Series 2000
259118A	A	3/16/05	Cover Machining Detail Beacon series 2000
259119A	A	3/16/05	Clamping Ring Series 2000 Beacon
259120A	A1	6/21/07	Terminal Box Base Series 2000 Beacon
259121A	A1	6/21/07	Terminal Box Cover Series 2000 Beacon
259122A	A1	4/27/07	Wellglass Cementing Procedure Series 2000 Beacon
259123A	A1	6/20/07	Label Warning Beacon Series 2000
259124A	A1	6/19/07	Certification Labels Series 2000 Beacon
259205A	A1	6/19/07	Certification Labels 2000 LED Beacon

These drawings are common to BAS IECEx 07.0150 and are controlled on and held with GB/BAS/ExTR 07.0081/00