

# IECEx Certificate of Conformity

# INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

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IECEx BAS 07.0038

issue No.:0

Certificate history:

Status:

Current

Date of Issue:

2007-09-06

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Applicant:

Federal Signal Corporation Federal Signal Corporation 2645 Federal Signal Drive

University Park Illinois 60466-3195

**United States of America** 

Electrical Apparatus:

Series 2000 Beacon

Optional accessory:

Type of Protection:

Exd ExtD Exde

Marking:

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 an increased safety terminal box

or

Ex d IIB T6 ExtD A21 IP66 T85°C (-40°C  $\le$  ta  $\le$  + 55°C) with LED lamps fitted or Ex de IIB T6 ExtD A21 IP66 T85°C (-40°C  $\le$  ta  $\le$  + 55°C) when additionally fitted with an increased

safety terminal box.

Approved for issue on behalf of the IECEx

Certification Body:

(Y) R S Sinclair

Position:

Managing Director

Signature:

(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.

2. This certificate is not transferable and remains the property of the issuing body.

3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

Baseefa (2001) Ltd.
Rockhead Business Park
Staden Lane
Buxton
Derbyshire
SK17 9RZ
United Kingdom





# **IECEx Certificate** of Conformity

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Manufacturer:

Federal Signal Corporation 2645 Federal Signal Drive

University Park Illinois 60466-3195

**United States of America** 

### Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacture'rs quality system, relating to the Exproducts covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

### STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0: 2004

Electrical apparatus for explosive gas atmospheres - Part 0: General requirements

Edition: 4.0

IEC 60079-1: 2003

Electrical apparatus for explosive gas atmospheres - Part 1: Flameproof enclosure 'd'

Edition: 5

IEC 60079-7: 2006-07

Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

Edition: 4

IEC 61241-0: 2004 Edition: 1

Electrical apparatus for use in the presence of combustible dust - Part 0: General

IEC 61241-1: 2004

Edition: 1

Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"

This Certificate does not indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.

# TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

## Test Report:

GB/BAS/ExTR07.0081/00

Quality Assessment Report: US/UL/QAR06.0012/00



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### Schedule

## **EQUIPMENT:**

Equipment and systems covered by this certificate are as follows:

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 florescent 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 can be drilled and the holes 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

To obviate the risk from internal hotspots associated with the 2000 Series 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 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).

Internal and external earthing facilities are provided.

CONDITIONS OF CERTIFICATION: NO