



EC-TYPE EXAMINATION CERTIFICATE

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

EC-Type Examination Certificate Number : **BAS99ATEX2196**

Equipment or Protective System: **TYPE XB12 XENON BEACON**

Manufacturer: **MEDC**

Address: **Pinxton, Nottingham, NG16 6JF**

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

The Electrical Equipment Certification Service, notified body number 600 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 N°

BASEEFA Certification Report 99(CI)0504 dated 10 November 1999

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

EN 50014: 1997

EN 50018: 1994

except in respect of those requirements listed at item 18 of the Schedule.

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.

This EC-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment or protective system.

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



**EEx d IIB T4 (T_{amb} = -55°C to +55°C) or
T5 (T_{amb} = -55°C to +40°C)**

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

File No: EECS 0676/01/274

This certificate is granted subject to the general conditions of the Electrical Equipment Certification Service. It does not necessarily indicate that the apparatus may be used in particular industries or circumstances.



Electrical Equipment Certification Service
Health and Safety Executive
Harpur Hill, Buxton, Derbyshire. SK17 9JN. United Kingdom
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I M CLEARE
DIRECTOR
18 November 1999



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EC-TYPE EXAMINATION CERTIFICATE N° BAS99ATEX2196

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Description of Equipment or Protective System

The Type XB12 Xenon Beacon may be rated from 12V d.c. to 240V a.c. with a maximum power dissipation of 50 watts, and comprises a cylindrical enclosure manufactured in glass reinforced polyester with a borosilicate wellglass cemented into the centre of the cover and retained by a circlip. The wellglass may be protected by an optional wire guard arrangement fixed to the cover.

The cover is secured by 6 off M8 x 30mm stainless steel socket head cap screws grade A2-70 or A4-80 with brass thread inserts embedded in the body shell.

The interior of the enclosure comprises a printed circuit board (PCB) incorporating a xenon tube and control electronics, mounted on pillars from the cover. In addition a 6 way terminal block rated up to 41A is mounted to the base of the enclosure.

To obviate the risk of hotspots and capacitor energy storage associated with this unit the cover must not be opened, even when isolated, when a flammable atmosphere is present. Each enclosure is marked with this information.

Up to two cable entry holes are provided in the side wall of the enclosure for the accommodation of suitable BASEEFA certified flameproof cable entry devices, with or without the interposition of a suitable BASEEFA certified flameproof thread adapter. Unused entries are to be fitted with suitable BASEEFA certified flameproof stopping plugs. Suitable flameproof cable entry devices, thread adapters and stopping plugs certified as Equipment (not a Component) under an EC-Type Examination Certificate to Directive 94/9/EC may also be used in the manner indicated above.

The cable entries may be linked by an optional earth continuity plate. Internal earthing facilities are provided along side the internal component connections.

This apparatus is to be installed and used in accordance with the appropriate codes of practice and the manufacturer's instructions.

This certification is to European Directive 94/9/EC only. Functional performance and compliance with other European directives is the responsibility of the equipment manufacturer and/or the user as appropriate.

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Report No.

BASEEFA Certification Report No. 99(CI)0504

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SPECIAL CONDITIONS FOR SAFE USE

None



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Essential Health and Safety Requirements

Essential Health and Safety Requirements not covered by Standards listed at (9)		
Clause	Subject	Compliance
1.0.2	Analysis of possible operating faults	BASEEFA Report No. 99(CI)0504
1.0.3	Special checking and maintenance conditions	No special requirements
1.0.6	Instructions	BASEEFA Report No. 99(CI)0504
1.2.2	Components for incorporation or replacement	Manufacturer's Instructions
1.2.4	Dust deposits	Certification for gas atmospheres only
1.2.5	Additional means of protection	Not applicable
1.2.7	Protection against other hazards	BASEEFA Report No. 99(CI)0504
1.3.5	Hazards arising from pressure compensation	Not applicable
1.5	General requirements for safety devices	Not applicable
1.6.1	Manual override	Not applicable
1.6.2	Emergency shutdown	Not applicable
1.6.3	Hazards arising from power failure	Not applicable
1.6.5	Placing of warning devices as parts of equipment	Not applicable
2.0	Category M	Not applicable
2.1	Category I	Not applicable
2.2.1	Category 2G	BASEEFA Report No. 99(CI)0504
2.2.2	Category 2D	Not applicable
2.3	Category 3	Not applicable
3.	Requirements for protective systems	Not applicable

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DRAWINGS

Number	Issue	Date	Description
226-136	A	13/10/99	General Arrangement, Type XB12 Xenon Beacon
226-137	A	10/10/99	Label Detail

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BASEEFA List Keywords
2WELLUM



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: BAS99ATEX2196/1**

4 **Equipment or Protective System: A TYPE XB12 XENON BEACON**

5 **Manufacturer: MEDC**

6 **Address: Pinxton, Nottingham, NG16 6JF**

7 This supplementary certificate extends EC-Type Examination Certificate No. BAS99ATEX2196 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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File No: EECS 0676/01/274

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Electrical Equipment Certification Service
Health and Safety Executive
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I M CLEARE
DIRECTOR
30 June 2000



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14 SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE N° BAS99ATEX2196/1

Description of the Variation to the Equipment or Protective System

VARIATION 1.1

Replacement of the xenon tube and control gear with a filament lamp rated up to 240V a.c. up to 60W or up to 100W to form a type FB12 luminaire.

For the 60W FB12 luminaire the temperature classification is T4 ($T_{amb} = -55^{\circ}\text{C}$ to $+55^{\circ}\text{C}$) or T5 ($T_{amb} = -55^{\circ}\text{C}$ to $+40^{\circ}\text{C}$).

For the 100W FB12 luminaire the temperature classification is T3 ($T_{amb} = -55^{\circ}\text{C}$ to $+30^{\circ}\text{C}$)

VARIATION 1.2

Replacement of the xenon tube and control gear with up to three fluorescent lamps and ballast's each rated up to 240Va.c. 13W, or a 13W fluorescent lamp and control gear rated at 24Vd.c. to form a type FL12 luminaire.

For the 13W a.c. & d.c. FL12 luminaire the temperature classification is T5 ($T_{amb} = -55^{\circ}\text{C}$ to $+55^{\circ}\text{C}$) or T6 ($T_{amb} = -55^{\circ}\text{C}$ to $+40^{\circ}\text{C}$).

For the 26W FL12 luminaire the temperature classification is T4 ($T_{amb} = -55^{\circ}\text{C}$ to $+55^{\circ}\text{C}$) or T5 ($T_{amb} = -55^{\circ}\text{C}$ to $+40^{\circ}\text{C}$).

For the 39W FL12 luminaire the temperature classification is T4 ($T_{amb} = -55^{\circ}\text{C}$ to $+40^{\circ}\text{C}$)

Note: For functional purposes the FL12 luminaires are marked with a minimum ambient temperature of -20°C .

Report No.

BASEEFA Report No. 00(CI)0061 dated 12 June 2000

Special Conditions for Safe Use

None

Essential Health and Safety Requirements

See original certificate



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14 SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE N° BAS99ATEX2196/1

DRAWINGS

Number	Sheet	Issue	Date	Description
226-136	1	B	20.4.00	General Assembly - Xenon Beacon
226-136	2	B	20.4.00	General Assembly - Fluorescent & Filament Beacon
226-136	3	B	20.4.00	General Assembly - Fluorescent Beacon
226-176	-	A	02.6.00	Certification Label - FL12 - Luminaire
226-177	-	A	02.6.00	Certification Label - FB12 - Luminaire

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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: **BAS99ATEX2196/2**

4 Equipment or Protective System: **A TYPE XB12 XENON BEACON**

5 Manufacturer: **MEDC LIMITED**

6 Address: **Pinxton, Nottingham, NG16 6JF**

7 This supplementary certificate extends EC-Type Examination Certificate No. BAS99ATEX2196 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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File No: EECS 0676/01/274

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I M CLEARE
DIRECTOR
30 April 2002



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Schedule

14 **SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE N° BAS99ATEX2196/2**

Description of the Variation to the Equipment or Protective System

VARIATION 2.1

Increase in the maximum permitted ambient temperature with associated Temperature Classification of T4 ($T_{amb} = -55^{\circ}\text{C}$ to $+70^{\circ}\text{C}$) for the Type XB12 Xenon Beacon only, together with minor changes to the certified drawings.

Report No.

02(C)0329

Special Conditions For Safe Use

None

Essential Health and Safety Requirements

See original certificate.

DRAWINGS

Number	Sheet	Issue	Date	Description
226-136	1	C	03-04-02	General Assembly - Xenon Beacon
226-136	2	C	03-04-02	General Assembly - Fluorescent & Filament Beacon
226-136	3	C	03-04-02	General Assembly - Fluorescent Beacon
226-137	-	B	24/04/02	Certification Label - XB12 Xenon Beacon

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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: **BAS99ATEX2196/3**
- 4 Equipment or Protective System: **A TYPE XB12 BEACON**
- 5 Manufacturer: **MEDC Limited**
- 6 Address: **Colliery Road, Pinxton, Nottingham NG16 6JF**
- 7 This supplementary certificate extends EC – Type Examination Certificate No. BAS99ATEX2196 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.

The original certificate was issued by The Electrical Equipment Certification Service, Notified Body Number 0600, which retains responsibility for its original documentation. Baseefa (2001) Ltd., Notified Body Number 1180, is responsible only for the additional work relating to this supplementary certificate and any other supplementary certificate it has issued.

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

Baseefa (2001) Ltd. Customer Reference No. 0676

Project File No. 03/0691

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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Certificate Number BAS99ATEX2196/3

15 Description of the variation to the Equipment or Protective System

Variation 3.1

Alternative internal arrangement comprising a rotating lamp assembly to form a Type TH12 Beacon.

The beacons are rated at 12V d.c. or 24V d.c. or 110V a.c. or 240V a.c..

The 12V d.c. version is fitted with a 50W tungsten halogen lamp, all other voltage ratings are fitted with a 70W tungsten halogen lamp.

The temperature classifications together with the associated cable entry temperature are as follows;

T4 (Tamb -55°C to +70°C) cable entry temperature may exceed 100°C

T5 (Tamb -55°C to +40°C) cable entry temperature may exceed 70°C

A warning is included on the certification label regarding the cable entry temperature.

16 Report Number

Baseefa Certification Report 03(C)0691

17 Special Conditions for Safe Use

None

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
261-105	1	A	05/09/03	General Arrangement TH12 Rotating Beacon
261-105	2	A	05/09/03	General Arrangement TH12 Rotating Beacon
261-106	-	A	28/07/03	Certification Label