



EC-TYPE EXAMINATION CERTIFICATE

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

EC-Type Examination Certificate Number : BAS99ATEX2195X

Equipment or Protective System: TYPE XB11 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)0505 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:-

 II 2G EEx d IIB T5 (T_{amb} = -55°C to +55°C) or
T6 (T_{amb} = -55°C to +40°C)

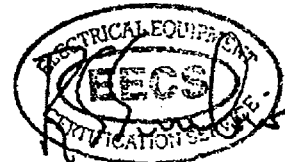
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File No: EECS 0676/01/267

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
Tel: 01298 28000 Fax: 01298 28244



I M CLEARE
DIRECTOR
18 November 1999



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Schedule

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EC-TYPE EXAMINATION CERTIFICATE N° BAS99ATEX2195X

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Description of Equipment or Protective System

The Type XB11 Xenon Beacon may be rated from 12V d.c. to 240V a.c. with a maximum power dissipation of 13.5 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 M5 x 25mm 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 25A 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)0505

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SPECIAL CONDITIONS FOR SAFE USE

1. For replacement purposes the cover fixing screws shall be grade A2-70 or stronger.



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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)0505
1.0.3	Special checking and maintenance conditions	No special requirements
1.0.6	Instructions	BASEEFA Report No. 99(CI)0505
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)0505
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 1	Not applicable
2.2.1	Category 2G	BASEEFA Report No. 99(CI)0505
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
225-154	A	12/10/99	General Arrangement, Type XB11 Xenon Beacon
225-155	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: **BAS99ATEX2195X/1**

4 Equipment or Protective System: **A TYPE XB11 XENON BEACON**

5 Manufacturer: **MEDC**

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

7 This supplementary certificate extends EC-Type Examination Certificate No. BAS99ATEX2195X 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 0676/01/267

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.

**I M CLEARE
DIRECTOR
31 May 2000**



**Electrical Equipment Certification Service
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Schedule

14 **SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE N° BAS99ATEX2195X/1**

Description of the Variation to the Equipment or Protective System

VARIATION 1.1

Replacement of the xenon tube and control gear with either, one or two filament lamps each rated 240V a.c. 10W to form a type FB11 luminaire, one fluorescent lamp and control gear rated 110Va.c. 5W, a twin fluorescent lamp and control gear rated 240V a.c. 10W or one fluorescent lamp with control gear rated 24V d.c. 5W to form a type FL11 luminaire.

For the above variants 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 $+40^{\circ}\text{C}$).

Note: For functional purposes the FL11 luminaires are marked with a minimum ambient temperature of -20°C .

Report No.

None.

Special Conditions for Safe Use

None

Essential Health and Safety Requirements

See original certificate

DRAWINGS

Number	Sheet	Issue	Date	Description
225-154	1	B	20.4.00	General Assembly - Xenon Beacon
225-154	2	B	20.4.00	General Assembly - FB11 Filament Beacon
225-154	3	B	20.4.00	General Assembly - FL11 Fluorescent Beacon
225-192	-	A	18.5.00	Certification Label - FB11 Filament Beacon
225-191	-	A	18.5.00	Certification Label - FL11 Fluorescent Beacon

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2 **Equipment or Protective System Intended for use**
3 **in Potentially explosive atmospheres**
4 **Directive 94/9/EC**

5 Supplementary EC-Type Examination Certificate Number: **BAS99ATEX2195X/2**

6 Equipment or Protective System: **A TYPE XB11 XENON BEACON**

7 Manufacturer: **MEDC LIMITED**

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

9 This supplementary certificate extends EC-Type Examination Certificate No. BAS99ATEX2195X to
10 apply to equipment or protective systems designed and constructed in accordance with the
11 specification set out in the Schedule of the said Certificate but having any variations specified in the
12 Schedule attached to this certificate and the documents therein referred to.

This Supplementary Certificate shall be held with the original Certificate.

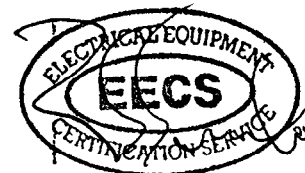
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I M CLEARE
DIRECTOR
10 July 2001



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Schedule

14 **SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE N° BAS99ATEX2195X/2**

Description of the Variation to the Equipment or Protective System

VARIATION 2.1

Extension to the scope of this certificate to include compliance with EN 50281-1-1: 1998 for Combustible Dust Atmospheres.

The certification marking is now amended as follows:-

UNIT DESIGNATION	MARKING
XB11 Xenon Beacon	⊕ II 2 GD EEx d IIB T100°C (-55°C T _{amb} +55°C) or T85°C (-55°C T _{amb} +40°C)
FB11 Filament Beacon	⊕ II 2 GD EEx d IIB T135°C (-55°C T _{amb} +55°C) or T100°C (-55°C T _{amb} +40°C)
FL11 Fluorescent Beacon	⊕ II 2 GD EEx d IIB T135°C (-20°C T _{amb} +55°C) or T100°C (-20°C T _{amb} +40°C)

Report No.

None.

Special Conditions For Safe Use

In addition to the conditions listed on the previous certificates:-

1. When used in dust atmospheres, the flameproof cable entry devices or stopping plugs shall be selected and installed to maintain the dust tight (IP6X) integrity of the enclosure.

Essential Health and Safety Requirements

The requirements for dust atmospheres (i.e. Category 2D) are now met by virtue of compliance with EN 50281-1-1: 1998.

DRAWINGS

Number	Issue	Date	Description
225-155	B	28-06-01	Label, XB11 Xenon Beacon
225-191	B	28-06-01	Label, FL11 Fluorescent Beacon
225-192	B	28-06-01	Label, FB11 Filament Beacon

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

3 Supplementary EC-Type Examination Certificate Number: **BAS99ATEX2195X/3**

4 Equipment or Protective System: **A TYPE XB11 XENON BEACON**

5 Manufacturer: **MEDC LIMITED**

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

7 This supplementary certificate extends EC-Type Examination Certificate No. BAS99ATEX2195X 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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I M CLEARE
DIRECTOR
30 April 2002



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Schedule

14 **SUPPLEMENTARY EC-TYPE EXAMINATION CERTIFICATE N° BAS99ATEX2195X/3**

Description of the Variation to the Equipment or Protective System

VARIATION 3.1

An increase in the maximum permitted ambient temperature to give an additional Temperature Classification of T135°C ($T_{amb} = -55^{\circ}\text{C}$ to $+70^{\circ}\text{C}$) T4 and the optional introduction of ½" NPT cable entries, both for the Type XB11 Xenon Beacon only.

Report No.

BASEEFA Certification Report No. 02(C)0334 dated 26 April 2002.

Special Conditions For Safe Use

As listed on the previous certificates.

Essential Health and Safety Requirements

As listed on the previous certificates.

DRAWINGS

Number	Issue	Date	Description
225-154 Sheets 1 to 3	C	27-03-02	General Arrangements, XB11 Xenon Beacon, FB11 Filament Luminare & FL11 Fluorescent Luminare
225-155	C	25/04/02	Certification Label, XB11 Xenon Beacon

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