



EC-TYPE EXAMINATION CERTIFICATE

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

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EC-Type Examination Certificate Number : **BAS00ATEX2031**

Equipment or Protective System: **TYPE XB9 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(C)0834 dated 2 February 2000

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

EN 50014: 1997 + Amendments 1 and 2 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 IIC T5 (T_{amb} = -55°C to +55°C) or
T6 (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 0676/01/343

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
10 February 2000



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Schedule

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Description of Equipment or Protective System

The Type XB9 Xenon Beacon may be rated from 12V d.c. to 254V a.c. with a maximum internal dissipation of 15W, 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 screwed into the body shell and is then prevented from rotating by a grub screw.

The interior of the enclosure comprises a printed circuit board (PCB) assembly incorporating a xenon tube and control electronics. In addition a 2 way terminal block rated up to 25A is mounted on the PCB assembly.

To obviate the risk of hotspots and capacitor energy storage associated with the Type XB9 Xenon Beacon the enclosure must not be opened, even when isolated, when a flammable atmosphere is present. The cover of each and every enclosure is marked with this information.

Internal earthing facilities are provided alongside the internal component connections.

An external earthing facility is fitted to the base of the unit.

One M20 cable entry is provided in the end wall of the enclosure for the accommodation of a suitable BASEEFA certified flameproof cable entry device, with or without the interposition of a suitable BASEEFA certified flameproof thread adaptor. Suitable flameproof cable entry devices and thread adaptors 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.

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 Nos.

BASEEFA Certification Report No. 99(CI)0834

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Special Conditions For Safe Use

None



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Essential Health and Safety Requirements

Essential Health & 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)0834
1.0.3	Special checking and maintenance conditions	No special requirements
1.0.6	Instructions	BASEEFA Report No. 99(CI)0834
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)0834
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)0834
2.2.2	Category 2D	Not applicable
2.3	Category 3	Not applicable
3.	Requirements for protective systems	Not applicable

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DRAWING

Number	Issue	Date	Description
227-129	A	8.11.99	General Arrangement, Type XB9 Xenon Beacon

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BASEEFA List Keywords
2WELLUM