



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 : **BAS02ATEX1258X**

4 Equipment or Protective System: **TYPE XB8 SERIES XENON BEACON**

5 Manufacturer: **MEDC LIMITED**

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

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 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°

**02(C)0205 dated 9 July 2002**

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

**EN 50014: 1997 + Amds 1 & 2    EN 50020: 1994    EN 50284: 1999**

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. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment or protective system.

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

**Ex II 1 G    EEx ia IIC T4 (-55°C ≤ T<sub>a</sub> ≤ +60°C) or  
EEx ia IIB T4 (-55°C ≤ T<sub>a</sub> ≤ +60°C)**

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

File No: EECS 0676/02/016

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.



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**I M CLEARE**  
DIRECTOR  
23 July 2002



13 **Schedule**

14 **EC-TYPE EXAMINATION CERTIFICATE N° BAS02ATEX1258X**

15 **Description of Equipment or Protective System**

The Type XB8 Series Xenon Beacon is designed to produce a visual flash at regular intervals.

The beacon comprises an electronic circuit and xenon flash tube on a printed circuit board which is encapsulated into a clear plastic lens. The lens assembly is mounted on a plastic base which contains a terminal block for external conductors. There is provision for cable entries at three positions in the base.

The beacon may be energised at either 24V or 12V nominal voltage. There is provision for remote control via volt-free contacts.

The enclosure provides a Degree of Protection of at least IP20.

Intrinsic Safety is assured by limitation of input voltage, current and power, internal limitation of voltage, limitation of capacitance, infallible resistors, infallible segregation and encapsulation.

The range of beacons and intrinsic safety parameters (Terminals 1 & 3 w.r.t. 2 & 4) are as follows:-

Type No	Nominal Supply Voltage V	Apparatus Group	$U_i$ V	$I_i$ mA	$P_i$ W	$C_i$	$L_i$
XB8-24C	24	IIC	28	120	0.84	0.93 $\mu$ F at 12.6V	0
XB8-24B	24	IIB	28	171	1.2		
XB8-12C	12	IIC	15.7	300	1.2		
XB8-12B	12	IIB	15.7	300	1.2		

Terminals 7 and 8 for connections to local link or to remote voltage free contacts  $U_o = 12.6V$ ,  $I_o = 1.3$  mA,  $P_o = 4mW$ .

16 **Report No**

02(C)0205

17 **Special Conditions for Safe Use**

The apparatus enclosure is made from plastic material which presents a possible electrostatic hazard. The apparatus must only be cleaned with a damp cloth.



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**Schedule**

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**Essential Health and Safety Requirements**

<b>ESSENTIAL HEALTH &amp; SAFETY REQUIREMENTS not covered by standards listed in Section 9</b>		
<b>Clause</b>	<b>Subject</b>	<b>Compliance</b>
1.1.3	Changes in characteristics of materials and combinations thereof	Report No 02(C)0205 Clause 5.1.1.3
1.2.2	Components for incorporation or replacement	Report No 02(C)0205 Clause 5.1.2.2
1.2.5	Additional means of protection	Report No 02(C)0205 Clause 5.1.2.5
1.4.2	Withstanding attack by aggressive substances	Report No 02(C)0205 Clause 5.1.4.2

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**DRAWINGS**

<b>Number</b>	<b>Sheet</b>	<b>Issue</b>	<b>Date</b>	<b>Description</b>
213-160		A	28.02.02	General Assembly
213-102		C	28.03.02	Circuit
213-161 SS		A	28.03.02	PCB Component Layout
213-161 UP		A	28.03.02	PCB Upper Copper Layer
213-161 LO		A	28-03-02	PCB Lower Copper Layer

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BASEEFA List Keywords  
2INDICAT