



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 : **BAS01ATEX1062X**

4 Equipment or Protective System: **A SERIES OF LED CLUSTER LAMPS**

5 Manufacturer: **BEKA ASSOCIATES**

6 Address: **Hitchin, Herts, SG5 2DA**

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°

00(C)1059 dated 16 July 2001

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:-

 **II 1 G EEx ia IIC T4**

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

File No: EECS 0121/02/019

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
1 August 2001



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Schedule

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EC-TYPE EXAMINATION CERTIFICATE N° BAS01ATEX1062X

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Description of Equipment or Protective System

The Series of LED Cluster Lamps are panel mounting units which may be clear or different colours.

The apparatus comprises two printed circuit boards housed in a plastic enclosure, external connections are made via an integral terminal block.

This certificate covers LED Cluster Lamps as follows:

| <u>Model No.</u> | <u>Alternative Model Nos.</u> | <u>Lamp Colour</u> |
|------------------|-------------------------------|--------------------|
| BA390 R | LED-Ex1.R or VS1 R | Red |
| BA390 G | LED-Ex1.G or VS1 V | Green |
| BA390 A | LED-Ex1.A or VS1 J | Amber |
| BA390 B | LED-Ex1.B or VS1 BL | Blue |
| BA390 W | LED-Ex1.W or VS1 BN | White |
| BA390 S | LED-Ex1.S or VS1 S | Special Colour |

The Model No. may be suffixed by S* which denotes alternative build levels.

$U_i = 30V$
 $P_i = 1.3W$ or $1.2W$ for a T_{amb} of $60^{\circ}C$
 $C_i = 0$
 $L_i = 0$

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Report No.

00(C)1059

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Special Conditions For Safe Use

The lens has a conductive coating, clean with soap and water, do not use abrasives, avoid inappropriate contact with solvents.

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Essential Health and Safety Requirements

| ESSENTIAL HEALTH & SAFETY REQUIREMENTS not covered by Standards listed at (9) | | |
|--|--|---------------------------------|
| Clause | Subject | Compliance |
| 1.1.3 | Changes in characteristics of materials and combinations thereof | Report 00(C)1059 Clause 6.1.1.3 |
| 1.2.2 | Components for incorporation or replacement | Report 00(C)1059 Clause 6.1.2.2 |
| 1.2.5 | Additional means of protection | Report 00(C)1059 Clause 6.1.2.5 |
| 1.2.7 | Protection against other hazards | Report 00(C)1059 Clause 6.1.2.7 |
| 1.4.2 | Withstanding attack by aggressive substances | Report 00(C)1059 Clause 6.1.4.2 |



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19 **DRAWINGS**

| Number | Issue | Date | Description |
|------------------|--------------|-------------|----------------------------|
| CI390-01 Sheet 1 | 6 | March 01 | Contents Sheet |
| CI390-01 Sheet 2 | 6 | March 01 | Modification Record |
| CI390-01 Sheet 3 | 6 | March 01 | Theoretical Circuit |
| CI390-01 Sheet 4 | 6 | March 01 | Electronic Components List |
| CI390-01 Sheet 5 | 6 | March 01 | Mechanical Construction |
| CI390-01 Sheet 6 | 6 | March 01 | Label Details |

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BASEEFA List Keywords
2INDICAT



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: **BAS01ATEX1062X/1**

4 Equipment or Protective System: **A Series of LED Cluster Lamps**

5 Manufacturer: **Beka Associates**

6 Address: **Beaver House, Old Charlton Road, Hitchin, SG5 2DA**

7 This supplementary certificate extends EC – Type Examination Certificate No. BAS01ATEX1062X 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 Customer Reference No. 0121

Project File No. 05/0294

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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Schedule

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Certificate Number BAS01ATEX1062X/1

15 **Description of the variation to the Equipment or Protective System**

Variation 1.1

To permit minor changes to the certification label; the original assessment is unaffected.

16 **Report Number**

None.

17 **Special Conditions for Safe Use**

None additional to those listed previously

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 |
|----------|--------|-------|--------|---------------------|
| CI390-01 | 2 of 6 | 7 | May 05 | Modification Record |
| CI390-01 | 6 of 6 | 7 | May 05 | Label Details |