



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: **ITS13ATEX27822X**

4. Equipment or Protective System: **BA390 LED Cluster Lamp**

5. Manufacturer: **BEKA associates Limited**

6. Address: **Old Charlton Road, Hitchin, Hertfordshire,
SG5 2DA, United Kingdom**

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. Intertek Testing and Certification Limited, notified body number 0359, 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 Intertek Report Ref G101230529, dated July 2013.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2012, EN 60079-11:2012 and EN 60079-26:2007, except in respect of those requirements referred to 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, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12. The marking of the equipment shall include the following :-

II 1 G Ex ia IIC T4 Ga
-20°C ≤ Ta ≤ +60°C

A M Smart
Certification Officer
23 July 2013

Intertek Testing & Certification Limited
Intertek House, Cleeve Road, Leatherhead, Surrey, KT22 7SB
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Registered No 3272281 Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ

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13. SCHEDULE

14. EC-TYPE EXAMINATION CERTIFICATE NUMBER ITS13ATEX27822X

15. DESCRIPTION OF EQUIPMENT OR PROTECTIVE SYSTEM

BA390 LED Cluster Lamp is a panel mounting equipment which may be clear or different colours.

The BA390 comprises two printed circuit boards, one containing a voltage regulating chip, a resistor and five light emitting diodes (LED's) and the second containing a terminal block for external connections. The LED and terminal boards are housed within a plastic enclosure. The enclosure provides a Degree of Protection of at least IP20.

The BA390 LED Cluster Lamp may be one of the following:

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

For any alternative build a further suffix will be added to identify the equipment build, e.g. BA390 RS1 indicates a Red Lamp and 'Sx' the alternative build. All alternative build will meet the requirements of the drawings listed below.

The intrinsically safe input parameters are:

$U_i = 30 \text{ V}$
 $I_i = 159 \text{ mA}$
 $P_i = 1.2 \text{ W}$
 $C_i = 0$
 $L_i = 0$

16. REPORT NUMBER

Intertek Report Ref G101230529, dated July 2013.

17. SPECIAL CONDITIONS FOR SAFE USE

The external parts of the equipment are made of non-metallic materials which may represent an electrostatic charging hazard. The user shall refer to the manufacturer's instructions to ensure that electrostatic charging is avoided.

18. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS (EHSR'S)

The relevant EHSR's have been identified and assessed in Intertek Report Ref G101230529, dated July 2013.

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19. Drawings

Manufacturer's Documents

Title:	Drawing No.:	Rev. Level:	Date:
IECEx Certification Information for BA390 LED Cluster Lamp	CI390-01-IEC, sheets 1 to 6	2	June 13

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