EU-Type Examination Certificate

1. **EU-TYPE EXAMINATION CERTIFICATE**

2. **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU**

3. **EU-Type Examination Certificate Number: ITS13ATEX27822X Issue 1**

4. **Product:** BA390 LED Cluster Lamp

5. **Manufacturer:** BEKA associates Limited

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

7. This product 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 17 of Directive 2014/34/EU of the European Parliament and of the Council dated 26 February 2014, certifies that the product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

   In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificate referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

   The examination and test results are recorded in confidential Intertek Report Ref G103529686LHD-001 Issue 1 dated May 2018.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2012 and EN 60079-11:2012 except in respect of those requirements referred to at item 16 of the Schedule.

10. If the sign “X” is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Safe Use specified in the Schedule to this certificate.

11. This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12. The marking of the product shall include the following:

    II 1 GD Ex ia IIC T4 Ga
    Ex ia IIIC T135°C Da

    -20°C ≤ Ta ≤ +60°C

P Moss
Certification Officer
12th June 2018

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This certificate may only be reproduced in its entirety and without any change, schedule included and is subject to Intertek Testing and Certification’s Conditions for Granting Certification.

SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE NUMBER ITS13ATEX27822X Issue 1

13. Description of Equipment or Protective System

BA390 LED Cluster Lamp is a panel mounting equipment which may be clear or different colours. The equipment comprised two printed circuit boards housed within a plastic enclosure, external connections are made via an integral terminal block. The enclosure provides a degree of protection IP20.
The certificate covers LED Cluster Lamps as follows:

Model No.	Alternate Model No. 1	Alternate Model No. 2	Lamp Colour
BA390 R	LED-Ex1.R	VSI R	Red Lamp
BA390 G	LED-Ex1.G	VSI V	Green Lamp
BA390 A	LED-Ex1.A	VSI J	Amber Lamp
BA390 B	LED-Ex1.B	VSI BL	Blue Lamp
BA390 W	LED-Ex1.W	VSI BN	White Lamp
BA390 S	LED-Ex1.S	VSI 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.

The intrinsically safe input parameters are:

Explosive Gas Atmosphere Ratings:
U_i = 30 V
I_i = 159 mA
P_i = 1.2 W
C_i = 0
L_i = 0

Explosive Dust Atmosphere Ratings:
U_i = 30 V
I_i = 159 mA
P_i = 683 mW
C_i = 0
L_i = 0

14. Report Number

Intertek Report Ref G101230529 Issue 1 dated July 2013.
Intertek Report Ref G103529686LHD-001 Issue 1 dated May 2018

15. Special Conditions of Certification

(a). Specific Conditions of 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.

(b). Conditions of Manufacture -

- None

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SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE NUMBER ITS13ATEX27822X Issue 1

16. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report Ref: G103529686LHD-001 Issue 1 dated May 2018

17. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
*IECEx Certification Information for BA390 LED Cluster Lamp	CI390-01-IEC, sheets 1 to 6	3	May 18

Note: An * is included before the title of documents that are new or revised.

18. Details of Certificate changes Issue 1

This variation covers the following: (Intertek Project No. G103529686)

- Inclusion of Explosive Dust Atmospheres to Certificate.
- Inclusion of alternate model numbers to Certificate.

Drawings revised as part of this variation:

Title:	Drawing No.:	Rev. Level:	Date:
IECEx Certification Information for BA390 LED Cluster Lamp	CI390-01-IEC, sheets 1 to 6	3	May 18

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