

UK-TYPE EXAMINATION CERTIFICATE

Product or Protective Systems Intended for Use in Potentially Explosive Atmospheres

UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

- UK-Type Examination Certificate Number:** ITS21UKEX0093X **Issue 00**
- Product:** BA390 LED Cluster Lamp
- Manufacturer:** BEKA Associates Ltd
- Address:** Old Charlton Road, Hitchin, Herts, SG5 2DA, United Kingdom
- This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- Intertek Testing and Certification Limited, Approved Body number 0359, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this 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 Schedule 1 of the Regulations.

The examination and test results are recorded in the confidential report G101230529 dated July 2013 and G103529686LHD-001 Issue 1, dated May 2018.
- Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2012+A11:2013 and EN 60079-11:2012 except in respect of those requirements referred to within item 14 of the Schedule.
- If the sign “X” is placed after the certificate number, it indicates that the product is subject to the special conditions of use specified in the Schedule to this certificate.
- This UK-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- The marking of the product shall include the following:

II 1 G Ex ia IIC T4 Ga



II 1 D Ex ia IIIC T135°C Da

-20°C ≤ Ta ≤ +60°C

Certification Officer: 
M Newman

Date: 2nd July 2021

SCHEDULE:

UK-Type Examination Certificate Number: ITS21UKEX0093X Issue 00

11. Description of Product 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	VSIV	Green Lamp
BA390 A	LED-Ex1.A	VSII	Amber Lamp
BA390 B	LED-Ex1.B	VSIBL	Blue Lamp
BA390 W	LED-Ex1.W	VSIBN	White Lamp
BA390 S	LED-Ex1.S	VSIS	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:

$U_i = 30 \text{ V}$

$I_i = 159 \text{ mA}$

$P_i = 1.2 \text{ W}$

$C_i = 0$

$L_i = 0$

Explosive Dust Atmosphere Ratings:

$U_i = 30 \text{ V}$

$I_i = 159 \text{ mA}$

$P_i = 683 \text{ mW}$

$C_i = 0$

$L_i = 0$

SCHEDULE:

UK-Type Examination Certificate Number: ITS21UKEX0093X Issue 00

12. Report Number

Intertek Report: G101230529 dated July 2013 and G103529686LHD-001 Issue 1, dated May 2018.

13. Special Conditions of Certification

- (a). Special Conditions of 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
- No Conditions of Manufacture

14. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) have been identified and assessed in Intertek Report: 104629389CHE-016, dated 21st June 2021.

15. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
IECEX Certification Information for BA390 LED Cluster Lamp (6 sheets)	CI390-01-IEC	3	May 18
UKCA Certifiaton Information for BA390 LED Cluster Lamp (2 Sheets)	CI390-01-UKCA	1	May 21