UK-TYPE EXAMINATION
CERTIFICATE

Product or Protective Systems Intended for Use in Potentially Explosive Atmospheres

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

1. **UK-Type Examination Certificate Number:** **ITS21UKEX0077X** **Issue 00**

2. **Product:** BA386 LED Beacon

3. **Manufacturer:** BEKA Associates Ltd

4. **Address:** Old Charlton Road, Hitchin, Herts, SG5 2DA, United Kingdom

5. This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

6. 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 01006218 dated March 2002 and 103015675LHD-001 Issue 1 dated December 2017.

7. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN IEC 60079-0:2012+A11:2013, EN 60079-11:2012 and EN 60079-28:2015 except in respect of those requirements referred to within item 14 of the Schedule.

8. 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.

9. 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.

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

II 1 G Ex ia op is IIC T4 Ga

-40°C ≤ Ta ≤ +60°C

Certification Officer: _____ **Date:** 5th July 2021

M Newman

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. This Certificate is accredited under UKAS schedule 0010
Intertek Testing & Certification Limited, Cleeve Road, Leatherhead, Surrey, KT22 7SA
Registered No 3272281 Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ.

SCHEDULE:

UK-Type Examination Certificate Number: ITS21UKEX0077X Issue 00

11. Description of Product or Protective System

The BEKA BA386 LED Beacon is designed to produce a visual warning in the hazardous area. The BA386 may come in red, green, amber, blue, white or special colour models.

The equipment includes a three printed circuit boards housed within a two-parts plastic enclosure, a translucent lens and a back box. The enclosure provides a degree of protection of at least IP20.

Intrinsic safety is assured by limitation of voltage, current and power, limitation of capacitance and infallible segregation.

The BA386 LED Beacon may alternatively be identified as an LI 01 L-IS-C LED Beacon.

The maximum intrinsically safe input parameters are as follows:

Power supply PL2 terminals 1 and 2:

U_i = 28V dc

I_i = 110mA dc

P_i = 0.8W

The equivalent parameters are:

C_i = 0

L_i = 0

Optional Sounder PL2 terminals 3 and 4

U_o = 28V dc

I_o = 110mA dc

P_o = 0.8W

The equivalent parameters are:

C_i = 0

L_i = 0

Optional Alarm Accept Switch PL 1 terminals 5 and 6

U_o = 16.8V dc

I_o = 1.6mA dc

P_o = 7.0mW

The equivalent parameters are:

C_i = 0

L_i = 0

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12. Report Number

Intertek Report: 01006218 dated March 2002 and 103015675LHD-001 Issue 1 dated December 2017.

13. Special Conditions of Certification

(a). Special Conditions of Use

• The equipment includes exposed unearthed metal label. Metallic label can present capacitance of up to 6pF with reference to earth. It is the responsibility of the user to determine the suitability of the equipment for its intended application.

• When installed in potentially explosive atmosphere requiring apparatus of Category 1G, the equipment shall be installed such that even in the event of rare incidents, an ignition source due to impact or friction between aluminium label and other iron/steel parts is excluded.

(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-001 dated 25th May 2021.

15. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
Certification information for BA386 LED beacon (10 sheets)	CI386-01	2	Apr 17
UKCA Certification Information for BA386 LED Beacon (2 Sheets)	CI386-01-UKCA	1	May 21

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