EU-Type Examination Certificate

Intertek
Valued Quality. Delivered.

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: ITS02ATEX2006X Issue 1**

4. **Product:** **BA386 LED Beacon**

5. **Manufacturer:** **BEKA associates Ltd**

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

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. New issues of such EC-Type Examination Certificates, and Supplementary Certificates to 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 01006218, dated March 2002 and Intertek Report Ref 103015675LHD-001 Issue 1 dated December 2017.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2012 + A11:2013, EN 60079-11:2012 and EN 60079-28:2015 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:

    Ex II 1 G Ex ia op is IIC T4 Ga
    -40°C ≤ Ta ≤ +60°C

V K Varma
Certification Officer
19 December 2017

Intertek Testing & Certification Limited
Intertek House, Cleeve Road, Leatherhead, Surrey, KT22 7SA
Tel: +44 (0)1372 370900 Fax: +44 (0)1372 370977
www.intertek.com
Registered No 3272281 Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ.

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 ITS02ATEX2006X Issue 1

13. Description of Equipment 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:
Ui = 28V dc
Ii = 110mA dc
Pi = 0.8W
The equivalent parameters are:
Ci = 0
Li = 0

Optional Sounder PL2 terminals 3 and 4
Uo = 28V dc
Io = 110mA dc
Po = 0.8W
The equivalent parameters are:
Ci = 0
Li = 0
Optional Alarm Accept Switch PL 1 terminals 5 and 6
Uo = 16.8V dc
Io = 1.6mA dc
Po = 7.0mW
The equivalent parameters are:
Ci = 0
Li = 0

14. Report Number

Intertek Report Ref 01006218, dated March 2002
Intertek Report Ref 103015675LHD-001 Issue 1 dated December 2017

15. Special Conditions of Certification

(a). Specific Conditions of Safe 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 - Routine Tests

- None.

This Certificate is the property of Intertek Testing and Certification Ltd and is subject to Intertek Testing and Certification's Conditions for Granting Certification

SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE NUMBER ITS02ATEX2006X 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 103015675LHD-001 Issue 1 dated December 2017.

17. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
BA386 Certification Information (sheets 1 to 10)	CI386-01	1	Nov. 01

18. Details of Certificate changes Issue 1

Modifications to the product covered under Issue 1:

- Update to the latest standards EN 60079-0:2012 + A11:2013 and EN 60079-11:2012
- Addition of standard EN 60079-28:2015 for protection of equipment and transmission systems using optical radiation
- Update to the documentation to reflect new requirements
- Addition of Specific Condition of Use related to capacitance of the unearthed metallic label and impact hazard for aluminium label.

Title:	Drawing No.:	Rev. Level:	Date:
Certification information for BA386 LED beacon (10 sheets)	CI386-01	2	Apr 17

This Certificate is the property of Intertek Testing and Certification Ltd and is subject to Intertek Testing and Certification's Conditions for Granting Certification

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.