



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx ITS 17.0052X

Issue No: 0

Certificate history:

[Issue No. 0 \(2017-12-19\)](#)

Status: **Current**

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Date of Issue: **2017-12-19**

Applicant: **BEKA associates Limited**  
Old Charlton Road  
Hitchin  
Herts SG5 2DA  
**United Kingdom**

Equipment: **LED Beacon BA386**

*Optional accessory:*

Type of Protection: **Intrinsic safety 'i', optical radiation 'op'**

Marking:

IECEX ITS 17.0052X

BEKA

Ex ia op is IIC T4 Ga

-40°C ≤ Ta ≤ +60°C

*Approved for issue on behalf of the IECEx  
Certification Body:*

V K Varma

*Position:*

Certification Officer

*Signature:  
(for printed version)*

*Date:*

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](#).

Certificate issued by:

**Intertek Testing & Certification Limited**  
ITS House, Cleeve Road,  
Leatherhead,  
Surrey, KT22 7SB  
United Kingdom





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Manufacturer: **BEKA associates Limited**  
Old Charlton Road  
Hitchin  
Herts SG5 2DA  
**United Kingdom**

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

## STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

**IEC 60079-0 : 2011** Explosive atmospheres - Part 0: General requirements  
Edition:6.0

**IEC 60079-11 : 2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

**IEC 60079-28 : 2015** Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation  
Edition:2

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

## TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

Test Report:

[GB/ITS/ExTR17.0042/00](#)

Quality Assessment Report:

[GB/ITS/QAR06.0002/05](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

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:

$C_i = 0$

$L_i = 0$

### SPECIFIC CONDITIONS OF USE: YES as shown below:

- 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.

### Annex:

[Annex for IECEx Certificate of Conformity IECEx ITS 17.0052X.pdf](#)