



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

Certificate No.: IECEx ITS 08.0030X Issue No: 2 Certificate history:
Status: **Current** Issue No. 2 (2018-06-15)
Date of Issue: **2018-06-15** Issue No. 1 (2013-07-25)
Page 1 of 4 Issue No. 0 (2008-09-01)
Applicant: **BEKA associates Limited**
Old Charlton Road
Hitchin
Hertfordshire
SG5 2DA
United Kingdom
Equipment: **BA390 LED Cluster Lamp**
Optional accessory:
Type of Protection: **Intrinsic Safety Ex ia**
Marking:
IECEX ITS 08.0030X
Ex ia IIC T4 Ga
Ex ia IIIC T135°C Da
-20°C < Ta < +60°C

Approved for issue on behalf of the IECEx
Certification Body:

P Moss

Position:

Certification Officer

Signature:
(for printed version)

Date:

2018.06.1

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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](http://www.iecex.com).

Certificate issued by:

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



IECEX Certificate of Conformity

Certificate No: IECEX ITS 08.0030X Issue No: 2

Date of Issue: 2018-06-15 Page 2 of 4

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 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 : 2017 Explosive atmospheres - Part 0: Equipment - General requirements

Edition:7.0

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

Edition:6.0

*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/ExTR08.0034/00](#)

[GB/ITS/ExTR08.0034/01](#)

[GB/ITS/ExTR08.0034/02](#)

Quality Assessment Report:

[GB/ITS/QAR06.0002/06](#)



IECEX Certificate of Conformity

Certificate No: IECEX ITS 08.0030X

Issue No: 2

Date of Issue: 2018-06-15

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

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:

$U_i = 30 \text{ V}$
 $I_i = 159 \text{ mA}$
 $P_i = 1.2 \text{ W}$
 $C_i = 0$
 $L_i = 0$

SPECIFIC CONDITIONS OF USE: YES as shown below:

Potential electrostatic hazard. Clean with damp cloth.



IECEX Certificate of Conformity

Certificate No: IECEX ITS 08.0030X

Issue No: 2

Date of Issue: 2018-06-15

Page 4 of 4

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Variation 1:

- Updates to existing the BA390 LED Cluster Lamp as per previous Certificate No IECEX ITS 08.0030X using latest applicable standards IEC 60079-0:2011 and IEC 60079-11:2011.
- Addition of electrostatic discharge warning to marking label and removal of lens coating.

Variation 2:

- Update to latest applicable standard IEC 60079-0:2017.
- Inclusion of Explosive Dust Atmospheres to Certificate.
- Inclusion of alternate model numbers to the Certificate.

Annex:

[G103529686 Annex.pdf](#)



Annex to IECEx Certificate of Conformity

Certificate No:	IECEX ITS 08.0030X	Issue No. 2
Annex No. 1		

Technical 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.*