



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 BAS 13.0005X Issue No: 3 Certificate history:
Status: **Current** Issue No. 3 (2018-04-17)
Date of Issue: **2018-04-17** Issue No. 2 (2017-02-23)
Page 1 of 4 Issue No. 1 (2015-10-28)
Issue No. 0 (2013-05-07)

Applicant: **R. Stahl Schalgerate GmbH**
Am Bahnhof 30
Waldenburg
74638
Germany

Equipment: **FX15B Beacon**
Optional accessory:

Type of Protection: **Flameproof, Dust protected**

Marking:
Ex db IIB T* Ta -60°C to +°C Gb**
Ex tb IIIC T*°C Ta -60°C to +**°C Db IP66 * See Annex**

Approved for issue on behalf of the IECEx
Certification Body:

R S Sinclair

Position:

Technical Manager

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

Certificate issued by:

SGS Baseefa Limited
Rockhead Business Park
Staden Lane
Buxton, Derbyshire, SK17 9RZ
United Kingdom





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Date of Issue: 2018-04-17 Page 2 of 4
Manufacturer: **R. Stahl Schalgerate GmbH**
Am Bahnhof 30
Waldenburg
74638
Germany

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 : 2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0
IEC 60079-1 : 2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0
IEC 60079-31 : 2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
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/BAS/ExTR13.0006/00](#) [GB/BAS/ExTR15.0206/00](#) [GB/BAS/ExTR17.0040/00](#)
[GB/BAS/ExTR18.0036/00](#)

Quality Assessment Report:

[DE/BVS/QAR10.0002/13](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The FX15B Beacon comprises a glass reinforced base and cover. The cover is provided with a transparent lens, a Fresnel outer lens which can be in a number of colours and a guard. The cover also contains printed circuit boards providing the driver for a xenon lamp rated at 5J. The cover is attached with grade A4-80 stainless steel fasteners. The flash rate is 1 per second.

The base has provision for cable entries, mounting holes and a mounting bracket.

The FX15B Beacon is rated at 24Vdc, 48Vdc, 115Vac and 230Vac, up to 300mA.

The temperature classification, dust marking temperature, ambient temperature range and cable temperature rise for the various models is indicated in the annex.

Cable entry holes are provided as specified on the certified drawings for the accommodation of flameproof cable entry devices, with or without the interposition of a flameproof thread adapter. Unused entries are to be fitted with suitable certified flameproof stopping plugs.

The cable entry devices, thread adapters and stopping plugs shall be suitable for the equipment, the cable and the conditions of use and shall be certified as Equipment (not a Component) under an EC Type Examination Certificate to Directive 94/9/EC.

When used in an explosive dust atmosphere the cable entry devices shall maintain the ingress protection of the enclosure

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The cover flamepath gap is less than that permitted by IEC60079-1 and shall not be enlarged in service.



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

Variation 3.1

To allow the product, FX15B Beacon, to be assessed against the following standards: IEC 60079-1:2014 Edition 7 and IEC 60079-31:2013 Edition 2

ExTR: GB/BAS/ExTR18.0036/00	File Reference: 17/0704
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Annex:

[IECEX BAS 13.0005X Annex -1.pdf](#)

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 United Kingdom



ANNEX to IECEx BAS 13.0005X

Issue No. 1

Date: 23 February 2017

The FX15B Beacon comprises a glass reinforced base and cover. The cover is provided with a transparent lens, a Fresnel outer lens which can be in a number of colours and a guard. The cover also contains printed circuit boards providing the driver for a xenon lamp rated at 5J. The cover is attached with grade A4-80 stainless steel fasteners. The flash rate is 1 per second.

The base has provision for cable entries, mounting holes and a mounting bracket.

The FX15B Beacon is rated at 24Vdc, 48Vdc, 60Vdc, 115Vac and 230Vac, up to 300mA.

The temperature classification, dust marking temperature, ambient temperature range and cable temperature rise for the various models is indicated below.

Power and Voltage	Temperature Classification	Maximum Surface Temperature	Ambient Temperature Range	Cable Temperature Rise (K)
5J 24Vdc	T6	T73 C	-60 C to + 40 C	20
	T5	T88 C	-60 C to + 55 C	
	T4	T103 C	-60 C to + 70 C	
5J 48Vdc	T6	T73 C	-60 C to + 40 C	20
	T5	T88 C	-60 C to + 55 C	
	T4	T103 C	-60 C to + 70 C	
5J 60Vdc	T5	T90°C	-60°C to +40°C	20
	T4	T110°C	-60°C to +60°C	
5J 115Vac	T5	T83 C	-60 C to + 40 C	40
	T4	T113 C	-60 C to + 55 C	
5J 240Vac	T6	T75 C	-60 C to + 40 C	30
	T5	T90 C	-60 C to + 55 C	
	T4	T105 C	-60 C to + 70 C	

The unit may alternatively be provided with an LED Light Source as follows :-

Power and Voltage	Temperature Classification	Maximum Surface Temperature	Ambient Temperature Range	Cable Temperature Rise (K)
2.4W 24Vdc	T6	T85°C	-60°C to + 70°C	20
2.6W 115Vac				
2.6W 230Vac				

Cable entry holes are provided as specified on the certified drawings for the accommodation of flameproof cable entry devices, with or without the interposition of a flameproof thread adapter. Unused entries are to be fitted with suitable certified flameproof stopping plugs.

The cable entry devices, thread adapters and stopping plugs shall be suitable for the equipment, the cable and the conditions of use and shall be certified as Equipment (not a Component).

When used in an explosive dust atmosphere the cable entry devices shall maintain the ingress protection of the enclosure.