



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 UL 15.0003X Issue No: 0 Certificate history:
Issue No. 0 (2015-11-24)

Status: **Current** Page 1 of 4

Date of Issue: **2015-11-24**

Applicant: **European Safety Systems Limited**
Impress House
Mansell Road
Acton
London W3 7QH
United Kingdom

Electrical Apparatus: **GNEx range of Signalling Strobe Beacons and GNExJ2 Junction Box**
Optional accessory:

Type of Protection: **Flameproof "db", protection by enclosure "tb"**

Marking:
Ex db IIC T* Gb
Ex tb IIIC T* Db

Refer to Annex for Temperature Class

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

Katy A. Holdredge

Position:

Senior Staff Engineer

*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:

UL LLC
333 Pfingsten Road
Northbrook IL 60062-2096
United States of America





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Manufacturer: **European Safety Systems Limited**
Impress House
Mansell Road
Acton
London W3 7QH
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 60079-1 : 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:

[US/UL/ExTR15.0005/00](#)

Quality Assessment Report:

[GB/SIR/QAR06.0020/05](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The GNExB1, GNExB2 series are a range of Electronic Strobe Beacons housed in a Flameproof / Dust protected GRP enclosure that are intended to be used as visual warning/ signaling devices. The enclosure is accessible via a threaded cover which incorporates a glass dome, the glass dome is cemented into the cover. The range is supplemented by a GNExJ2 Junction Box which is based on the GNExB2 Series enclosure, the junction box is closed with a single piece moulded threaded cover.

See Annex for additional details.

CONDITIONS OF CERTIFICATION: YES as shown below:

The enclosure is non-conducting and may generate an ignition-capable level of electrostatic charges under certain extreme conditions. The user should ensure that the equipment is not installed in a location where it may be subjected to external conditions (such as high-pressure steam) which might cause a build-up of electrostatic charges on non-conducting surfaces. Additionally, cleaning of the equipment should be done only with a damp cloth.



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Accessible metal parts are capable of retaining a stored capacitance of 10pF therefore the end user shall take the appropriate action to reduce the risks of ignition associated with discharging this capacitance.

Repair of the flamepath's is not permitted.

GNEB2X21 models shall not be mounted with the lamp down.

Annex:

[Annex to IECEx UL 15.0003X Issue 0.pdf](#)

Small Strobe Beacons

GNExB1X05DC012, GNExB1X05DC024, GNExB1X05DC048, GNExB1X05AC115, GNExB1X05AC230.

Large Strobe Beacons

GNExB2X10DC024, GNExB2X10DC048, GNExB2X10AC115, GNExB2X10AC230, GNExB2X15DC024, GNExB2X15DC048, GNExB2X15AC115, GNExB2X15AC230, GNExB2X21DC024, GNExB2X21DC048, GNExB2X21AC115, GNExB2X21AC230.

Junctions Box

GNExJ2

Ratings:

Type Designation	Description	Rated Voltage Range	Rated Current (mA)	IP Rating	T Class (Dust) +70°C	T Class (Gas) +40°C	T Class (Gas) +55°C	T Class (Gas) +70°C
GNExB1X05DC012	5J Xenon Strobe 12Vdc	10-14Vdc	587	IP66	T110°C	T6	T5	T4
GNExB1X05DC024	5J Xenon Strobe 24Vdc	20-28Vdc	266	IP66	T110°C	T6	T5	T4
GNExB1X05DC048	5J Xenon Strobe 48Vdc	42-54Vdc	175	IP66	T110°C	T6	T5	T4
GNExB1X05AC115	5J Xenon Strobe 115Vac, 50/60Hz	110-125Vac, 50/60Hz	121	IP66	T110°C	T6	T5	T4
GNExB1X05AC230	5J Xenon Strobe 230Vac, 50/60Hz	220-240Vac 50/60Hz	88	IP66	T110°C	T6	T5	T4
GNExB2X10DC024	10J Xenon Strobe 24Vdc	20-28Vdc	592	IP6X	T95°C	-	T6	T5
GNExB2X10DC048	10J Xenon Strobe 48Vdc	42-54Vdc	233	IP6X	T95°C	-	T6	T5
GNExB2X10AC115	10J Xenon Strobe 115Vac, 50/60Hz	110-125Vac 50/60Hz	399	IP6X	T95°C	-	T6	T5
GNExB2X10AC230	10J Xenon Strobe 230Vac, 50/60Hz	220-240Vac 50/60Hz	198	IP6X	T95°C	-	T6	T5
GNExB2X15DC024	15J Xenon Strobe 24Vdc	20-28Vdc	882	IP6X	T120°C	T5	-	T4
GNExB2X15DC048	15J Xenon Strobe 48Vdc	42-54Vdc	358	IP6X	T120°C	T5	-	T4
GNExB2X15AC115	15J Xenon Strobe 115Vac, 50/60Hz	110-125Vac 50/60Hz	383	IP6X	T120°C	T5	-	T4
GNExB2X15AC230	15J Xenon Strobe 230Vac, 50/60Hz	220-240Vac 50/60Hz	265	IP6X	T120°C	T5	-	T4
GNExB2X21DC024	21J Xenon Strobe 24Vdc	20-28Vdc	1032	IP6X	T130°C	-	-	T4
GNExB2X21DC048	21J Xenon Strobe 48Vdc	42-54Vdc	460	IP6X	T130°C	-	-	T4
GNExB2X21AC115	21J Xenon Strobe 115Vac, 50/60Hz	115Vac 50/60Hz	464	IP6X	T130°C	-	-	T4
GNExB2X21AC230	21J Xenon Strobe 230Vac, 50/60Hz	230Vac 50 Hz	310	IP6X	T130°C	-	-	T4
GNExJ2	GNEx Junction Box	260Vac, 60V dc	5W	IP6X	T80°C	-	-	T6