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 KEM 10.0024X	Issue No: 2	Certificate history:
Status:	**Current**	Page 1 of 4	Issue No. 2 (2016-04-14)
Date of Issue:	**2016-04-14**		Issue No. 1 (2015-09-07)
Applicant:	**European Safety Systems Ltd.** Impress House, Mansell Road Acton, London W3 7QH **United Kingdom**		Issue No. 0 (2010-04-16)
Electrical Apparatus:	**Electronic Beacon/Beacon**		
Optional accessory:			
Type of Protection:	**Ex d, Ex tb**		
Marking:	Ex d IIC T6...T4 Gb Ex tb IIIC T65 °C...T130 °C Db		

Approved for issue on behalf of the IECEx Certification Body: R. Schuller

Position: Certification Manager

Signature:
(for printed version)

Date: 2016-04-14

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:

DEKRA Certification B.V.
Meander 1051
6825 MJ Arnhem
The Netherlands

DEKRA

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Manufacturer: **European Safety Systems Ltd.**
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 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2007-04 Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*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:

NL/KEM/ExTR10.0032/00 NL/KEM/ExTR10.0032/01 NL/KEM/ExTR10.0032/02

Quality Assessment Report:

GB/SIR/QAR06.0020/05

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Electronic Beacon/Beacon, Types BExCBG05-05D, BExCBGL2-L2D and BExCBGL2-05D, housed in an aluminium enclosures in type of protection flameproof enclosure "d" and ignition protection "tb", are used to provide visual warning signals.

The Beacon/Beacons are provided with glass domes. Types BExCBGL2-L2D and BExCBGL2-05D are provided with plastic dome covers. Type BExCBG05D is optionally provided with plastic dome covers indicated by the suffix -P to the type designation; BExCBG05-05D-P.

The enclosure provides a degree of protection of IP66/IP67 per IEC 60529 and IEC 60079-0.

For details about electrical data and marking see Annex 1 to this certificate.

CONDITIONS OF CERTIFICATION: YES as shown below:

In case of repair, contact the manufacturer for information on the dimensions of the flameproof joints.

The enclosure 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 that might cause a build-up of electrostatic charges on non-conducting surfaces.

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

Addition of new product types

Annex:

510005400-Annex1.pdf

Annex 1 to ExTR NL/KEM/ExTR10.0032/02
Annex 1 to Certificate of Conformity IECEx KEM 10.0024X, issue 2

Electrical data

Beacon type	Supply voltage	Voltage range	Supply current
BExCBG05-05D, BExCBG05-05D-P	12 / 24 / 48 Vdc or 115 / 230 Vac	-	750 / 300 / 180 mA or 140 / 55 mA
BExCBGL2-L2D	24 Vdc or 115 / 230 Vac	18-54 Vdc or 103.5-126 Vac / 207-253 Vac	480 mA or 170 / 96 mA
BExCBGL2-05D	24 / 48 Vdc or 115 / 230 Vac	20-28 Vdc / 42-54 Vdc or 103.5-126 Vac / 207-253 Vac	520 / 283 mA or 170 / 89 mA

Marking

The relation between the double beacon, the ambient temperature range and the marking for gas and dust applications is given in the tables below.

GAS			
Ambient temp. range	-50 °C to +40 °C	-50 °C to +55 °C	-50 °C to +70 °C
BExCBG05-05D		Ex d IIB T5 Gb	Ex d IIB T4 Gb
BExCBG05-05D-P			Ex d IIB T4 Gb
BExCBGL2-L2D		Ex d IIB T6 Gb	Ex d IIB T5 Gb
BExCBGL2-05D	Ex d IIB T5 Gb		Ex d IIB T4 Gb

DUST			
Ambient temp. range	-50 °C to +40 °C	-50 °C to 55 °C	-50 °C to 70 °C
BExCBG05-05D		Ex tb IIIC T100 °C Db	Ex tb IIIC T115 °C Db
BExCBG05-05D-P		Ex tb IIIC T115 °C Db	Ex tb IIIC T130 °C Db
BExCBGL2-L2D	Ex tb IIIC T65 °C Db	Ex tb IIIC T80 °C Db	Ex tb IIIC T95 °C Db
BExCBGL2-05D	Ex tb IIIC T95 °C Db	Ex tb IIIC T110 °C Db	Ex tb IIIC T125 °C Db

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