

CERTIFICATE

(1) **EU-Type Examination**

(2) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **KEMA 01ATEX2222 X** Issue Number: **5**

(4) Product: **Electronic Beacon/Beacon, Types BExCBG05-05D, BExCBGL2-L2D and BExCBGL2-05D**

(5) Manufacturer: **European Safety Systems Ltd.**

(6) Address: **Impress House, Mansell Road, London W3 7QH, United Kingdom**

(7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) DEKRA Certification B.V., Notified Body number 0344 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential test report number NL/KEM/ExTR10.0032/03.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0 : 2012 + A11 : 2013 EN 60079-1 : 2014 EN 60079-31 : 2014
EN IEC 60079-0 : 2018

except in respect of those requirements listed at item 18 of the Schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:



II 2 G Ex db IIB T6...T4 Gb
II 2 D Ex tb IIIC T65 °C...T130 °C Db

Date of certification: 5 April 2019

DEKRA Certification B.V.

Leo van Schie
 Certification Manager



(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate KEMA 01ATEX2222 X**

Issue No. 5

(15) **Description**

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

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

The enclosure provides a degree of protection of IP66/IP67 per EN 60529.

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

Installation instructions

The instructions provided with the product shall be followed in detail to assure safe operation.

(16) **Report Number**

No. NL/KEM/ExTR10.0032/03.

(17) **Specific conditions of use**

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.

Flameproof joints are not intended to be repaired.

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. NL/KEM/ExTR10.0032/03.

(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate KEMA 01ATEX2222 X** Issue No. 5

(20) **Certificate history**

- Issue 1 - 201285400 Initial certificate
- Addendum - 209011400 Increase of the ambient temperature to +70 °C for all types
Removal of the prismatic lens
- Issue 2 - 213023400 Assessment in accordance with newer edition of standards:
EN 60079-0 : 2006, EN 60079-1 : 2007 EN 61241-0 : 2006 and
EN 61241-1 : 2004
- Issue 3 - 216794100 Assessment in accordance with newer edition of standards:
EN 60079-0 : 2012 and EN 60079-31 : 2014
Addition of the type with a plastic lens cap, type designation ending
with -P
- Issue 4 - 510005400 Addition of new product Types BExCBGL2-L2D and
BExCBGL2-05D
- Issue 5 - 510023300 Assessment in accordance with newer edition of standards:
EN IEC 60079-0 : 2018 and EN 60079-1 : 2014

Annex 1 to: Certificate of Conformity IECEx KEM 10.0024X
EU-Type Examination Certificate KEMA 01ATEX2222 X, issue 5
Report NL/KEM/ExTR10.0032/03

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 and temperature ratings

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 db IIB T5 Gb | Ex db IIB T4 Gb |
| BExCBG05-05D-P | | | Ex db IIB T4 Gb |
| BExCBGL2-L2D | | Ex db IIB T6 Gb | Ex db IIB T5 Gb |
| BExCBGL2-05D | Ex db IIB T5 Gb | | Ex db 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 |