

(1) EC-TYPE EXAMINATION CERTIFICATE

(2) Equipment and protective systems intended for use in potentially explosive atmospheres - Directive 94/9/EC


- (3) EC-Type Examination Certificate Number: **KEMA 00ATEX2006** Issue Number: **2**
- (4) Equipment: **Electronic Beacons Types BExBG05D, BExBG05E, BExBG10D, BExBG10E, BExBG15D, BExBG15E, BExBG21D, BExTBG05D and BExBGL1D**
- (5) Manufacturer: **European Safety Systems Ltd.**
- (6) Address: **Impress House, Mansell Road, Acton, London W3 7QH, UK**
- (7) This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) KEMA Quality B.V., notified body number 0344 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems 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 212737000/1.
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- | | | |
|--------------------------|--------------------------|--------------------------|
| EN 60079-0 : 2006 | EN 60079-1 : 2007 | EN 60079-7 : 2003 |
| EN 61241-0 : 2006 | EN 61241-1 : 2004 | |
- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This EC-Type Examination Certificate relates only to the design, examination and tests of the specified equipment according to the Directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.
- (12) The marking of the equipment shall include the following:



II 2 G Ex d IIC T3 to T6 or
II 2 G Ex de IIC T4 to T6
II 2 D Ex tD A21 IP66 or IP67 T85 °C to T200 °C

This certificate is issued on October 16, 2009 and, as far as applicable, shall be revised before the date of cessation of presumption of conformity of (one of) the standards mentioned above as communicated in the Official Journal of the European Union.

KEMA Quality B.V.


T. Pijpker
Certification Manager

(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 00ATEX2006**

Issue No. 2

(15) **Description**

The Electronic Beacons types BExBG05D, BExBG05E, BExBG10D, BExBG10E, BExBG15D, BExBG15E, BExBG21D, BExTBG05D, BExBGL1D, housed in aluminium enclosures in type of protection flameproof enclosure "d", are used to provide visual warning signals. The Beacons types BExB..E are additionally provided with a terminal compartment in type of protection increased safety "e".

Electrical data

Beacon type	Supply voltage	Supply current
BExBG05D, BExBG05E	12 / 24 / 48 Vdc or 115 / 230 Vac	750 / 300 / 180 mA or 140 / 55 mA
BExBG10D, BExBG10E	12 / 24 / 48 Vdc or 115 / 230 Vac	1.45 A / 660 mA / 340 mA or 250 / 110 mA
BExBG15D, BExBG15E	24 / 48 Vdc or 115 / 230 Vac	860 / 480 mA or 360 / 170 mA
BExTBG05D	115 / 230 Vac	140 / 55 mA
BExBGL1D	10-50 Vdc or 10-35 Vac or 115 / 230 Vac	400 mA (24 Vdc) or 812 mA (20 Vac) or 135 / 65 mA
BExBG21D	24 / 48 Vdc or 115 / 230 Vac	1,2 A / 600 mA or 560 / 280 mA

Installation instructions

The manual provided with the equipment shall be followed in detail to assure safe operation.

Marking

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

GAS			
Ambient temp.	-50 °C to +40 °C	-50 °C to +55 °C	-50 °C to +70 °C
BExBG05D	II 2G Ex d IIC T6	II 2G Ex d IIC T5	II 2G Ex d IIC T4
BExBG05E	II 2G Ex de IIC T6	II 2G Ex de IIC T5	II 2G Ex de IIC T4
BExBG10D	II 2G Ex d IIC T5		II 2G Ex d IIC T4
BExBG10E	II 2G Ex de IIC T5		II 2G Ex de IIC T4
BExBG15D	II 2G Ex d IIC T5		II 2G Ex d IIC T4
BExBG15E	II 2G Ex de IIC T5		II 2G Ex de IIC T4
BExBG21D		II 2G Ex d IIC T4	II 2G Ex d IIC T3
BExTBG05D	II 2G Ex d IIC T6	II 2G Ex d IIC T5	II 2G Ex d IIC T4
BExBGL1D	II 2G Ex d IIC T5		II 2G Ex d IIC T4

(13) **SCHEDULE**

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DUST			
Ambient temp.	40 °C	55 °C	70 °C
BExBG05D	II 2D Ex tD A21 IP67 T85	II 2D Ex tD A21 IP67 T100	II 2D Ex tD A21 IP67 T115
BExBG05E	II 2D Ex tD A21 IP66 T85	II 2D Ex tD A21 IP66 T100	II 2D Ex tD A21 IP66 T115
BExBG10D	II 2D Ex tD A21 IP67 T95	II 2D Ex tD A21 IP67 T110	II 2D Ex tD A21 IP67 T125
BExBG10E	II 2D Ex tD A21 IP66 T95	II 2D Ex tD A21 IP66 T110	II 2D Ex tD A21 IP66 T125
BExBG15D	II 2D Ex tD A21 IP67 T95	II 2D Ex tD A21 IP67 T110	II 2D Ex tD A21 IP67 T125
BExBG15E	II 2D Ex tD A21 IP66 T95	II 2D Ex tD A21 IP66 T110	II 2D Ex tD A21 IP66 T125
BExBG21D		II 2D Ex tD A21 IP67 T135	II 2D Ex tD A21 IP67 T200
BExTBG05D	II 2D Ex tD A21 IP67 T85	II 2D Ex tD A21 IP67 T100	II 2D Ex tD A21 IP67 T115
BExBGL1D	II 2D Ex tD A21 IP67 T95	II 2D Ex tD A21 IP67 T105	II 2D Ex tD A21 IP67 T120

(16) **Test Report**

KEMA No. 212737000/1.

(17) **Special conditions for safe use**

None.

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

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. 212737000/1.