

CERTIFICATE

(1) EC-Type Examination

(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: **3**

(4) Equipment: **Electronic Beacons, Types BExBG05D(-SIL), BExBG05E(-SIL), BExBG10D(-SIL), BExBG10E(-SIL), BExBG15D(-SIL), BExBG15E(-SIL), BExBG21D, BExTBG05D and BExBGL1D**

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

(6) Address: **Impress House, Mansell Road, 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) DEKRA Certification 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 NL/KEM/ExTR10.0005/01.

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

EN 60079-0 : 2006
EN 61241-0 : 2006

EN 60079-1 : 2007
EN 61241-1 : 2004

EN 60079-7 : 2003

(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 24 April 2015 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.

DEKRA Certification B.V.

M. Erdhuizen
Certification Manager



(13) **SCHEDULE**

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

Issue No. 3

(15) **Description**

The Electronic Beacons types BExBG05D(-SIL), BExBG05E(-SIL), BExBG10D(-SIL), BExBG10E(-SIL), BExBG15D(-SIL), BExBG15E(-SIL), BExBG21D, BExTBG05D and 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”.

The Beacon types, BExBG05D, BExBG05E, BExBG10D, BExBG10E, BExBG15D and BExBG15E with a supply voltage of 24 Vdc, have an optional monitoring module. For these the type designation is extended with –SIL.

Electrical data

Beacon type	Supply voltage	Supply current	..-SIL types
BExBG05D, BExBG05E	12 / 24 / 48 Vdc or 115 / 230 Vac	750 / 300 / 180 mA or 140 / 55 mA	24 Vdc – 325 mA
BExBG10D, BExBG10E	12 / 24 / 48 Vdc or 115 / 230 Vac	1.45 A / 660 mA / 340 mA or 250 / 110 mA	24 Vdc – 685 mA
BExBG15D, BExBG15E	24 / 48 Vdc or 115 / 230 Vac	860 / 480 mA or 360 / 170 mA	24 Vdc – 885 mA
BExTBG05D	115 / 230 Vac	140 / 55 mA	N/A
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	N/A
BExBG21D	24 / 48 Vdc or 115 / 230 Vac	1,2 A / 600 mA or 560 / 280 mA	N/A

Installation instructions

The instructions 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(-SIL)	Ex d IIC T6	Ex d IIC T5	Ex d IIC T4
BExBG05E(-SIL)	Ex de IIC T6	Ex de IIC T5	Ex de IIC T4
BExBG10D(-SIL)	Ex d IIC T5		Ex d IIC T4
BExBG10E(-SIL)	Ex de IIC T5		Ex de IIC T4
BExBG15D(-SIL)	Ex d IIC T5		Ex d IIC T4
BExBG15E(-SIL)	Ex de IIC T5		Ex de IIC T4
BExBG21D		Ex d IIC T4	Ex d IIC T3
BExTBG05D	Ex d IIC T6	Ex d IIC T5	Ex d IIC T4
BExBGL1D	Ex d IIC T5		Ex d IIC T4

(13) **SCHEDULE**

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

(16) **Test Report**

No. NL/KEM/ExTR10.0005/01.

(17) **Specific conditions of use**

None

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

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. NL/KEM/ExTR10.0005/01.