

# 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 01ATEX2223 X** Issue Number: **3**

(4) **Equipment:** **Electronic Sounder/Beacons Types BExCS110-05D, BExDCS110-05D, Loudspeaker/Beacons Types BExCL15-05D, BExDCL15-05D, Apello/Beacons Types BExCA110-05D, BExDCA110-05D, Sontel/Beacons Types BExCTS110-05D, BExDCTS110-05D, Vershoven Sounder/Beacons Types BExCTV110-05D, BExDCTV110-05D and Sounder/LED Beacons Types BExCS110L1D and BExDCS110L1D**

(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) 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 213023400/2.

(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**

(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 IIB T4**  
**II 2 D Ex tD A21 IP6X T100 °C or T115 °C**

This certificate is issued on March 29, 2012 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.

T. Pijpker  
Certification Manager

Page 1/3

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(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 01ATEX2223 X**

Issue No. 3

(15) **Description**

Electronic Sounder/Beacons Types BExCS110-05D, BExDCS110-05D, Loudspeaker/Beacons Types BExCL15-05D, BExDCL15-05D, Apello/Beacons Types BExCA110-05D, BExDCA110-05D, Sontel/Beacons Types BExCTS110-05D, BExDCTS110-05D, Vershoven Sounder/Beacons Types BExCTV110-05D, BExDCTV110-05D and Sounder/LED Beacons Types BExCS110L1D and BExDCS110L1D, housed in aluminium enclosures in type of protection flameproof enclosure "d", are used to provide acoustic signals and visual warning signals.

**Electrical data**

Electronic Sounder/Beacons Types BExCS110-05D and BExDCS110-05D:

|                      |        |        |        |         |         |
|----------------------|--------|--------|--------|---------|---------|
| Supply voltage       | 12 Vdc | 24 Vdc | 48 Vdc | 115 Vac | 230 Vac |
| Sounder Current [mA] | 195    | 265    | 130    | 110     | 56      |
| Beacon Current [mA]  | 750    | 300    | 180    | 140     | 55      |

Loudspeaker/Beacons Types BExCL15-05D and BExDCL15-05D:

|                     |        |        |        |         |         |
|---------------------|--------|--------|--------|---------|---------|
| Supply voltage      | 12 Vdc | 24 Vdc | 48 Vdc | 115 Vac | 230 Vac |
| Beacon Current [mA] | 750    | 300    | 180    | 140     | 55      |

|                    |            |        |         |           |
|--------------------|------------|--------|---------|-----------|
| Loudspeaker Type   | 100 V line | 8 Ohms | 16 Ohms | 70 V line |
| Supply voltage [V] | 100        | 10,95  | 15,49   | 70        |

Apello/Beacons Types BExCA110-05D and BExDCA110-05D:

|                     |        |         |         |
|---------------------|--------|---------|---------|
| Supply voltage      | 24 Vdc | 115 Vac | 230 Vac |
| Apello Current [mA] | 480    | 90      | 45      |
| Beacon Current [mA] | 300    | 140     | 55      |

Sontel/Beacons Types BExCTS110-05D and BExDCTS110-05D:

|                      |        |        |        |         |         |
|----------------------|--------|--------|--------|---------|---------|
| Supply voltage       | 12 Vdc | 24 Vdc | 48 Vdc | 115 Vac | 230 Vac |
| Sounder Current [mA] | 195    | 265    | 130    | 110     | 56      |
| Beacon Current [mA]  | 750    | 300    | 180    | 140     | 55      |

Vershoven Sounder/Beacons Types BExCTV110-05D and BExDCTV110-05D:

|                      |        |        |        |         |         |
|----------------------|--------|--------|--------|---------|---------|
| Supply voltage       | 12 Vdc | 24 Vdc | 48 Vdc | 115 Vac | 230 Vac |
| Sounder Current [mA] | 195    | 265    | 130    | 110     | 56      |
| Beacon Current [mA]  | 750    | 300    | 180    | 140     | 55      |

Sounder/LED Beacons Types BExCS110L1D and BExDCS110L1D:

|                      |        |        |        |         |         |
|----------------------|--------|--------|--------|---------|---------|
| Supply voltage       | 12 Vdc | 24 Vdc | 48 Vdc | 115 Vac | 230 Vac |
| Sounder Current [mA] | 195    | 265    | 130    | 110     | 56      |
| Beacon Current [mA]  | 760    | 400    | 210    | 135     | 65      |

(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 01ATEX2223 X**

Issue No. 3

**Installation instructions**

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

**Marking**

The relation between the combined Sounder/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 +70 °C   |
| BExCS110-05D  | II 2 G Ex d IIB T4 |
| BExCL15-05D   | II 2 G Ex d IIB T4 |
| BExCA110-05D  | II 2 G Ex d IIB T4 |
| BExCTS110-05D | II 2 G Ex d IIB T4 |
| BExCTV110-05D | II 2 G Ex d IIB T4 |
| BExCS110L1D   | II 2 G Ex d IIB T4 |

| DUST           |                            |                            |
|----------------|----------------------------|----------------------------|
| Ambient temp.  | 55 °C                      | 70 °C                      |
| BExDCS110-05D  | II 2 D Ex tD A21 IP6X T100 | II 2 D Ex tD A21 IP6X T115 |
| BExDCL15-05D   | II 2 D Ex tD A21 IP6X T100 | II 2 D Ex tD A21 IP6X T115 |
| BExDCA110-05D  | II 2 D Ex tD A21 IP6X T100 | II 2 D Ex tD A21 IP6X T115 |
| BExDCTS110-05D | II 2 D Ex tD A21 IP6X T100 | II 2 D Ex tD A21 IP6X T115 |
| BExDCTV110-05D | II 2 D Ex tD A21 IP6X T100 | II 2 D Ex tD A21 IP6X T115 |
| BExDCS110L1D   | II 2 D Ex tD A21 IP6X T100 | II 2 D Ex tD A21 IP6X T115 |

(16) **Test Report**

No. 213023400/2.

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

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

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

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. 213023400/2.