

(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 99ATEX6312** Issue Number: **2**
- (4) Equipment: **Electronic Sounders BExS... & BExDS... Loudspeakers BExL... & BExDL... Appello Speech Sounders BExA... & BExDA... Sontel BExTS... & BExDTS... Hootronic Sounders BExH... & BExDH... and Monitored Loudspeakers BExL... & BExDL...**
- (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 212737000/2.
- (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 IIB or IIC T4 or
II 2 G Ex de IIB or IIC T4
II 2 D Ex tD A21 IP66 or IP67 T100 °C or T115 °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

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(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 99ATEX6312**

Issue No. 2

(15) **Description**

The Electronic Sounders types BExS110D, BExS120D, BExS110E, BExS120E, BExDS110D, BExDS120D, BExDS110E and BExDS120E, Loudspeakers types BExL15D, BExL25D, BExL15E, BExL25E, BExDL15D, BExDL25D, BExDL15E and BExDL25E, Appello Speech Sounders types BExA110D, BExA120D, BExA110E, BExA120E, BExDA110D, BExDA120D, BExDA110E and BExDA120E, Sontel types BExTS110D and BExDTS110D, Hootronic Sounder types BExH120D and BExDH120D, Monitored Loudspeaker types BExL25GD and BExDL25GD, housed in aluminium enclosures in type of protection flameproof enclosure "d", are used to provide acoustic signals.

The Sounders, Loudspeakers and Appello Speech Sounders types BEx..E are additionally provided with a terminal compartment in type of protection increased safety "e".

Electrical data

Sounder type	Supply voltage	Supply current	Max. Supply power
BExS120D, BExS120E, BExDS120D, BExDS120E	12 / 24 / 48 Vdc or 110 / 115 / 230 Vac	850 / 800 / 420 mA or 200 / 180 / 90 mA	27 W
BExS110D, BExS110E, BExDS110D, BExDS110E	12 / 24 / 48 Vdc or 110 / 115 / 230 Vac	195 / 265 / 130 mA or 93 / 110 / 56 mA	27 W
BExL25D, BExL25E, BExDL25D, BExDL25E	70 / 100 V (line) or 14.14 / 20 V (L.I. versions: 8 / 16 Ohms)		25 W
BExL15D, BExL15E, BExDL15D, BExDL15E	70 / 100 V (line) or 10.95 / 15.49 V (L.I. versions: 8 / 16 Ohms)		15 W
BExA120D, BExA120E, BExDA120D, BExDA120E	24 Vdc or 115 / 230 Vac	480 mA or 90 / 45 mA	
BExA110D, BExA110E, BExDA110D, BExDA110E	24 Vdc or 115 / 230 Vac	480 mA or 90 / 45 mA	
BExTS110D, BExDTS110D	12 / 24 / 48 Vdc or 110 / 115 / 230 Vac	195 / 265 / 130 mA or 93 / 110 / 56 mA	27 W
BExH120D, BExDH120D	24 Vdc or 115 / 230 Vac	400 mA or 130 / 65 mA	
BExL25GD, BExDL25GD	100 V (line)		25 W

Installation instructions

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

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Marking

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

GAS		
Ambient temp.	-50 to +55 °C	-50 to +70 °C
BExS110D	II 2G Ex d IIC T4	II 2G Ex d IIB T4
BExS120D	II 2G Ex d IIC T4	II 2G Ex d IIB T4
BExS110E	II 2G Ex de IIC T4	II 2G Ex de IIB T4
BExS120E	II 2G Ex de IIC T4	II 2G Ex de IIB T4
BExDS110D	II 2G Ex d IIC T4	II 2G Ex d IIB T4
BExDS120D	II 2G Ex d IIC T4	II 2G Ex d IIB T4
BExDS110E	II 2G Ex de IIC T4	II 2G Ex de IIB T4
BExDS120E	II 2G Ex de IIC T4	II 2G Ex de IIB T4
BExL15D	II 2G Ex d IIC T4	II 2G Ex d IIB T4
BExL25D	II 2G Ex d IIC T4	II 2G Ex d IIB T4
BExL15E	II 2G Ex de IIC T4	II 2G Ex de IIB T4
BExL25E	II 2G Ex de IIC T4	II 2G Ex de IIB T4
BExDL15D	II 2G Ex d IIC T4	II 2G Ex d IIB T4
BExDL25D	II 2G Ex d IIC T4	II 2G Ex d IIB T4
BExDL15E	II 2G Ex de IIC T4	II 2G Ex de IIB T4
BExDL25E	II 2G Ex de IIC T4	II 2G Ex de IIB T4
BExA110D	II 2G Ex d IIC T4	II 2G Ex d IIB T4
BExA120D	II 2G Ex d IIC T4	II 2G Ex d IIB T4
BExA110E	II 2G Ex de IIC T4	II 2G Ex de IIB T4
BExA120E	II 2G Ex de IIC T4	II 2G Ex de IIB T4
BExDA110D	II 2G Ex d IIC T4	II 2G Ex d IIB T4
BExDA120D	II 2G Ex d IIC T4	II 2G Ex d IIB T4
BExDA110E	II 2G Ex de IIC T4	II 2G Ex de IIB T4
BExDA120E	II 2G Ex de IIC T4	II 2G Ex de IIB T4
BExTS110D	II 2G Ex d IIC T4	II 2G Ex d IIB T4
BExDTS110D	II 2G Ex d IIC T4	II 2G Ex d IIB T4
BExH120D	II 2G Ex d IIC T4	II 2G Ex d IIB T4
BExDH120D	II 2G Ex d IIC T4	II 2G Ex d IIB T4
BExL25GD	II 2G Ex d IIC T4	II 2G Ex d IIB T4
BExDL25GD	II 2G Ex d IIC T4	II 2G Ex d IIB T4

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DUST		
Ambient temp.	55 °C	70 °C
BExDS110D	II 2D Ex tD A21 IP67 T100	II 2D Ex tD A21 IP67 T115
BExDS120D	II 2D Ex tD A21 IP67 T100	II 2D Ex tD A21 IP67 T115
BExDS110E	II 2D Ex tD A21 IP66 T100	II 2D Ex tD A21 IP66 T115
BExDS120E	II 2D Ex tD A21 IP66 T100	II 2D Ex tD A21 IP66 T115
BExDL15D	II 2D Ex tD A21 IP67 T100	II 2D Ex tD A21 IP67 T115
BExDL25D	II 2D Ex tD A21 IP67 T100	II 2D Ex tD A21 IP67 T115
BExDL15E	II 2D Ex tD A21 IP66 T100	II 2D Ex tD A21 IP66 T115
BExDL25E	II 2D Ex tD A21 IP66 T100	II 2D Ex tD A21 IP66 T115
BExDA110D	II 2D Ex tD A21 IP67 T100	II 2D Ex tD A21 IP67 T115
BExDA120D	II 2D Ex tD A21 IP67 T100	II 2D Ex tD A21 IP67 T115
BExDA110E	II 2D Ex tD A21 IP66 T100	II 2D Ex tD A21 IP66 T115
BExDA120E	II 2D Ex tD A21 IP66 T100	II 2D Ex tD A21 IP66 T115
BExDTS110D	II 2D Ex tD A21 IP67 T100	II 2D Ex tD A21 IP67 T115
BExDH120D	II 2D Ex tD A21 IP67 T100	II 2D Ex tD A21 IP67 T115
BExDL25GD	II 2D Ex tD A21 IP67 T100	II 2D Ex tD A21 IP67 T115

(16) **Test Report**

KEMA No. 212737000/2.

(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. 212737000/2.