

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 99ATEX6312 X** Issue Number: **4**

(4) Equipment: **Electronic Sounders BExS...(-SIL) & BExDS...(-SIL) ,
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, 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/ExTR10.0006/02.

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

EN 60079-0 : 2012 + A11

EN 60079-1 : 2007

EN 60079-31 : 2014

(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 Gb
II 2 D Ex tb IIIC T100 °C or T115 °C Db**

This certificate is issued on 01 July 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 99ATEX6312 X**

Issue No. 4

(15) **Description**

The Electronic Sounders types BExS110D(-SIL), BExS120D(-SIL), BExDS110D(-SIL) and BExDS120D(-SIL), Loudspeakers types BExL15D, BExL25D, BExDL15D and BExDL25D, Appello Speech Sounders types BExA110D, BExA120D, BExDA110D and BExDA120D, 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.

All types can be provided with a so called Radial horn, giving the addition of –R to the type designation, e.g. BExS110D-R.

The Sounder types, BExS110D, BExS120D, BExDS110D and BExDS120D with a supply voltage of 24 Vdc, have an optional monitoring module.

For these the type designation is extended with –SIL, e.g. BExS110D-R-SIL

Electrical data

Sounder type	Supply voltage	Supply current	-SIL types
BExS120D, BExDS120D	12 / 24 / 48 Vdc or 110 / 115 / 230 Vac	850 / 800 / 420 mA or 200 / 180 / 90 mA	24 Vdc – 825 mA
BExS110D, BExDS110D	12 / 24 / 48 Vdc or 110 / 115 / 230 Vac	195 / 265 / 130 mA or 93 / 110 / 56 mA	24 Vdc – 290 mA
BExL25D, BExDL25D	70 / 100 V (line) or 14.14 / 20 V (L.I. versions: 8 / 16 Ohms)		N/A
BExL15D, BExDL15D	70 / 100 V (line) or 10.95 / 15.49 V (L.I. versions: 8 / 16 Ohms)		N/A
BExA120D, BExDA120D	24 Vdc or 115 / 230 Vac	480 mA or 90 / 45 mA	N/A
BExA110D, BExDA110D	24 Vdc or 115 / 230 Vac	480 mA or 90 / 45 mA	N/A
BExTS110D, ExDTS110D	12 / 24 / 48 Vdc or 110 / 115 / 230 Vac	195 / 265 / 130 mA or 93 / 110 / 56 mA	N/A
BExH120D, BExDH120D	24 Vdc or 115 / 230 Vac	400 mA or 130 / 65 mA	N/A
BExL25GD, BExDL25GD	100 V (line)		N/A

Installation instructions

The instructions 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(-SIL)	II 2G Ex d IIC T4 Gb	II 2G Ex d IIB T4 Gb
BExS120D(-SIL)	II 2G Ex d IIC T4 Gb	II 2G Ex d IIB T4 Gb
BExDS110D(-SIL)	II 2G Ex d IIC T4 Gb	II 2G Ex d IIB T4 Gb
BExDS120D(-SIL)	II 2G Ex d IIC T4 Gb	II 2G Ex d IIB T4 Gb
BExL15D	II 2G Ex d IIC T4 Gb	II 2G Ex d IIB T4 Gb
BExL25D	II 2G Ex d IIC T4 Gb	II 2G Ex d IIB T4 Gb
BExDL15D	II 2G Ex d IIC T4 Gb	II 2G Ex d IIB T4 Gb
BExDL25D	II 2G Ex d IIC T4 Gb	II 2G Ex d IIB T4 Gb
BExA110D	II 2G Ex d IIC T4 Gb	II 2G Ex d IIB T4 Gb
BExA120D	II 2G Ex d IIC T4 Gb	II 2G Ex d IIB T4 Gb
BExDA110D	II 2G Ex d IIC T4 Gb	II 2G Ex d IIB T4 Gb
BExDA120D	II 2G Ex d IIC T4 Gb	II 2G Ex d IIB T4 Gb
BExTS110D	II 2G Ex d IIC T4 Gb	II 2G Ex d IIB T4 Gb
BExDTS110D	II 2G Ex d IIC T4 Gb	II 2G Ex d IIB T4 Gb
BExH120D	II 2G Ex d IIC T4 Gb	II 2G Ex d IIB T4 Gb
BExDH120D	II 2G Ex d IIC T4 Gb	II 2G Ex d IIB T4 Gb
BExL25GD	II 2G Ex d IIC T4 Gb	II 2G Ex d IIB T4 Gb
BExDL25GD	II 2G Ex d IIC T4 Gb	II 2G Ex d IIB T4 Gb

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DUST		
Ambient temp.	55 °C	70 °C
BExS110D(-SIL)	II 2D Ex tb IIIC T100 °C Db	II 2D Ex tb IIIC T115 °C Db
BExS120D(-SIL)	II 2D Ex tb IIIC T100 °C Db	II 2D Ex tb IIIC T115 °C Db
BExDS110D(-SIL)	II 2D Ex tb IIIC T100 °C Db	II 2D Ex tb IIIC T115 °C Db
BExDS120D(-SIL)	II 2D Ex tb IIIC T100 °C Db	II 2D Ex tb IIIC T115 °C Db
BExL15D	II 2D Ex tb IIIC T100 °C Db	II 2D Ex tb IIIC T115 °C Db
BExL25D	II 2D Ex tb IIIC T100 °C Db	II 2D Ex tb IIIC T115 °C Db
BExDL15D	II 2D Ex tb IIIC T100 °C Db	II 2D Ex tb IIIC T115 °C Db
BExDL25D	II 2D Ex tb IIIC T100 °C Db	II 2D Ex tb IIIC T115 °C Db
BExA110D	II 2D Ex tb IIIC T100 °C Db	II 2D Ex tb IIIC T115 °C Db
BExA120D	II 2D Ex tb IIIC T100 °C Db	II 2D Ex tb IIIC T115 °C Db
BExDA110D	II 2D Ex tb IIIC T100 °C Db	II 2D Ex tb IIIC T115 °C Db
BExDA120D	II 2D Ex tb IIIC T100 °C Db	II 2D Ex tb IIIC T115 °C Db
BExTS110D	II 2D Ex tb IIIC T100 °C Db	II 2D Ex tb IIIC T115 °C Db
BExDTS110D	II 2D Ex tb IIIC T100 °C Db	II 2D Ex tb IIIC T115 °C Db
BExH120D	II 2D Ex tb IIIC T100 °C Db	II 2D Ex tb IIIC T115 °C Db
BExDH120D	II 2D Ex tb IIIC T100 °C Db	II 2D Ex tb IIIC T115 °C Db
BExL25GD	II 2D Ex tb IIIC T100 °C Db	II 2D Ex tb IIIC T115 °C Db
BExDL25GD	II 2D Ex tb IIIC T100 °C Db	II 2D Ex tb IIIC T115 °C Db

(16) **Test Report**

No. NL/KEM/ExTR10.0006/02.

(17) **Specific conditions of use**

The types starting with BExD.. are provided with a horn of antistatic material.
For the other types special precautions, as specified in the manual, shall be taken against electrostatic charging.

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

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. NL/KEM/ExTR10.0006/02.