CERTIFICATE

(1) EU-Type Examination

(2) **Equipment or protective systems intended for use in potentially explosive atmospheres - Directive 2014/34/EU**

(3) EU-Type Examination Certificate Number: **KEMA 99ATEX6312 X** Issue Number: **6**

(4) Product: **Electronic Sounders, Type BEx(*)S1*0*(-R)(-SIL)**
Loudspeakers, Type BEx(*)L*5*(-R)
Appello Speech Sounders, Type BEx(*)A1*0*(-R)
Sontel, Types BExTS110D(-R) and BExDTS110D(-R),
Hootronic Sounder, Types BExH120D(-R) and BExDH120D(-R)
Monitored Loudspeaker, Types BExL25GD(-R) and BExDL25GD(-R)

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

(6) Address: **Impress House, Mansell Road, London W3 7QH,**
United Kingdom

(7) This product 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 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products 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/ExTR10.0006/04.

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

EN IEC 60079-0 : 2018 **EN 60079-1 : 2014** **EN 60079-7 : 2015 + A1 : 2018**
EN 60079-31 : 2014

except in respect of those requirements listed at item 18 of the Schedule.

(10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:

II 2 G Ex db IIB or IIC T4 Gb or
II 2 G Ex db eb IIB or IIC T4 Gb
II 2 D Ex tb IIIC T100 ºC or T105 ºC or T115 ºC Db

Date of certification: 4 October 2021

DEKRA Certification B.V.

L.G. van Schie
Certification Manager

PRODUCTS RvA C 001

DEKRA Certification B.V. Meander 1051, 6825 MJ Arnhem P.O. Box 5185, 6802 ED Arnhem The Netherlands
T +31 88 96 83000 F +31 88 96 83100 www.dekra-product-safety.com Registered Arnhem 09085396

(13) # SCHEDULE

(14) **to EU-Type Examination Certificate KEMA 99ATEX6312 X** Issue No. **6**

(15) **Description**

Electronic Sounders, types
BExS110D(-R)(-SIL), BExS110E(-R)(-SIL), BExS120D(-R)(-SIL), BExS120E(-R)(-SIL),
BExDS110D(-R)(-SIL), BExDS110E(-R)(-SIL), BExDS120D(-R)(-SIL), BExDS120E(-R)(-SIL),
Loudspeakers, types
BExL15D(-R), BExL15E(-R), BExL25D(-R), BExL25E(-R),
BExDL15D(-R), BExDL15E(-R), BExDL25D(-R), BExDL25E(-R),
Appello Speech Sounders, types
BExA110D(-R), BExA110E(-R), BExA120D(-R), BExA120E(-R),
BExDA110D(-R), BExDA110E(-R), BExDA120D(-R), BExDA120E(-R),
Sontel, types
BExTS110D(-R), BExDTS110D(-R),
Hootronic Sounder, types
BExH120D(-R), BExDH120D(-R) and
Monitored Loudspeaker, types
BExL25GD(-R), BExDL25GD(-R)
are used to provide acoustic signals.

The type with Suffix D consists of an aluminum enclosure of type of flame protection enclosure “db".
The type with Suffix E consists of an electronic compartment made of aluminum, type of protection flameproof enclosures “db” and a terminal compartment made of aluminum, type of protection increased safety “eb”.
Both types with suffix D and suffix E satisfy dust ignition protection by enclosure "tb".

All types have an optional variation with a radial horn, giving the addition of –R to the type designation, e.g. BExS110D-R.

The Sounder types, BExS110D, BExS110E, BExS120D, BExS120E, BExDS110D, BExDS110E, BExDS120D and BExDS120E 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.

The enclosure provides a degree of protection of IP66/IP67 per EN60079-0 and EN 60529.

For details about electrical and thermal data and marking see Annex 1 to report No. NL/KEM/ExTR10.0006/04.

Installation instructions

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

(16) **Report Number**

No. NL/KEM/ExTR10.0006/04.

(13) # SCHEDULE

(14) **to EU-Type Examination Certificate KEMA 99ATEX6312 X** Issue No. **6**

(17) **Specific conditions of use**

The enclosure is non-conducting and may generate an ignition-capable level of electrostatic charges under certain extreme conditions. The user should ensure that the equipment is not installed in a location where it may be subjected to external conditions that might cause a build-up of electrostatic charges on non-conducting surfaces.

Flameproof joints are not intended to be repaired.

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

Covered by the standards listed at item (9).

(19) **Test documentation**

As listed in Report No. NL/KEM/ExTR10.0006/04.

(20) **Certificate history**

Issue 1	-	9631200	Initial certificate
Addendum	-	209011400	Change of potting material used in the line-bushing of the EEx de versions Increase of the ambient temperature to +70 °C for all types
Addendum	-	211859300	Addition of Hootronic Sounders Types BExH120D and BExDH120D
Issue 2	-	212737000	Assessment in accordance with newer edition of standards: EN 60079-0 : 2006, EN 60079-1 : 2007, EN 60079-7 : 2003, EN 61241-0 : 2006 and EN 61241-1 : 2004
Issue 3	-	218205200	Addition of an optional monitoring module to the 24 V Sounder types; designation: -SIL b
Issue 4	-	216785000	Assessment in accordance with newer edition of standards: EN 60079-0 : 2012, EN 60079-1 : 2007 and EN 60079-31 : 2014 Addition of a differently shaped, radial horn Addition of alternative materials for the horns of the Ex tb certified Sounders Removal of Ex e certified types
Issue 5	-	510023400	Assessment in accordance with newer edition of standards: EN IEC 60079-0 : 2018 and EN 60079-1 : 2014 Removal of the PG thread form for cable entries
Issue 6	-	510035500	Addition of an Ex e terminal compartment option in accordance with the standard: EN 60079-7 : 2015 + A1 : 2018

* Note) A point, “.” is used as decimal separator.

Electrical data

Type	Supply voltage	Supply current	-SIL types
BExS120D(-R)(-SIL) BExS120E(-R)(-SIL) BExDS120D(-R)(-SIL) BExDS120E(-R)(-SIL)	12 / 24 / 48 Vdc or 110 / 115 / 230 Vac	850 / 800 / 420 mA or 200 / 180 / 90 mA	24 Vdc – 825 mA
BExS110D(-R)(-SIL) BExS110E(-R)(-SIL) BExDS110D(-R)(-SIL) BExDS110E(-R)(-SIL)	12 / 24 / 48 Vdc or 110 / 115 / 230 Vac	195 / 265 / 130 mA or 93 / 110 / 56 mA	24 Vdc – 290 mA
BExL25D(-R) BExL25E(-R) BExDL25D(-R) BExDL25E(-R)	70 / 100 V (line) or 14.14 / 20 V (L.I. versions: 8 / 16 Ohms)		N/A
BExL15D(-R) BExL15E(-R) BExDL15D(-R) BExDL15E(-R)	70 / 100 V (line) or 10.95 / 15.49 V (L.I. versions: 8 / 16 Ohms)		N/A
BExA120D(-R) BExA120E(-R) BExDA120D(-R) BExDA120E(-R)	24 Vdc or 115 / 230 Vac	480 mA or 90 / 45 mA	N/A
BExA110D(-R) BExA110E(-R) BExDA110D(-R) BExDA110E(-R)	24 Vdc or 115 / 230 Vac	480 mA or 90 / 45 mA	N/A
BExTS110D(-R) BExDTS110D(-R)	12 / 24 / 48 Vdc or 110 / 115 / 230 Vac	195 / 265 / 130 mA or 93 / 110 / 56 mA	N/A
BExH120D(-R) BExDH120D(-R)	24 Vdc or 115 / 230 Vac	400 mA or 130 / 65 mA	N/A
BExL25GD(-R) BExDL25GD(-R)	100 V (line)		N/A

Thermal data

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

GAS			
Ambient temperature	-50 °C to +55 °C	-50 °C to +60 °C	-50 °C to +70 °C
BExS110D(-R)(-SIL)	Ex db IIC T4 Gb		Ex db IIB T4 Gb
BExS110E(-R)(-SIL)	Ex db eb IIC T4 Gb	Ex db eb IIB T4 Gb	
BExS120D(-R)(-SIL)	Ex db IIC T4 Gb		Ex db IIB T4 Gb
BExS120E(-R)(-SIL)	Ex db eb IIC T4 Gb	Ex db eb IIB T4 Gb	
BExDS110D(-R)(-SIL)	Ex db IIC T4 Gb		Ex db IIB T4 Gb
BExDS110E(-R)(-SIL)	Ex db eb IIC T4 Gb	Ex db eb IIB T4 Gb	
BExDS120D(-R)(-SIL)	Ex db IIC T4 Gb		Ex db IIB T4 Gb
BExDS120E(-R)(-SIL)	Ex db eb IIC T4 Gb	Ex db eb IIB T4 Gb	
BExL15D(-R)	Ex db IIC T4 Gb		Ex db IIB T4 Gb
BExL15E(-R)	Ex db eb IIC T4 Gb	Ex db eb IIB T4 Gb	
BExL25D(-R)	Ex db IIC T4 Gb		Ex db IIB T4 Gb
BExL25E(-R)	Ex db eb IIC T4 Gb	Ex db eb IIB T4 Gb	
BExDL15D(-R)	Ex db IIC T4 Gb		Ex db IIB T4 Gb
BExDL15E(-R)	Ex db eb IIC T4 Gb	Ex db eb IIB T4 Gb	
BExDL25D(-R)	Ex db IIC T4 Gb		Ex db IIB T4 Gb
BExDL25E(-R)	Ex db eb IIC T4 Gb	Ex db eb IIB T4 Gb	
BExA110D(-R)	Ex db IIC T4 Gb		Ex db IIB T4 Gb
BExA110E(-R)	Ex db eb IIC T4 Gb	Ex db eb IIB T4 Gb	
BExA120D(-R)	Ex db IIC T4 Gb		Ex db IIB T4 Gb
BExA120E(-R)	Ex db eb IIC T4 Gb	Ex db eb IIB T4 Gb	
BExDA110D(-R)	Ex db IIC T4 Gb		Ex db IIB T4 Gb
BExDA110E(-R)	Ex db eb IIC T4 Gb	Ex db eb IIB T4 Gb	
BExDA120D(-R)	Ex db IIC T4 Gb		Ex db IIB T4 Gb
BExDA120E(-R)	Ex db eb IIC T4 Gb	Ex db eb IIB T4 Gb	
BExTS110D(-R)	Ex db IIC T4 Gb		Ex db IIB T4 Gb
BExDTS110D(-R)	Ex db IIC T4 Gb		Ex db IIB T4 Gb
BExH120D(-R)	Ex db IIC T4 Gb		Ex db IIB T4 Gb
BExDH120D(-R)	Ex db IIC T4 Gb		Ex db IIB T4 Gb
BExL25GD(-R)	Ex db IIC T4 Gb		Ex db IIB T4 Gb
BExDL25GD(-R)	Ex db IIC T4 Gb		Ex db IIB T4 Gb

DUST			
Ambient temperature	-50 °C to +55 °C	-50 °C to +60 °C	-50 °C to +70 °C
BExS110D(-R)(-SIL)	Ex tb IIIC T100 °C Db		Ex tb IIIC T115 °C Db
BExS110E(-R)(-SIL)	Ex tb IIIC T100 °C Db	Ex tb IIIC T105 °C Db	
BExS120D(-R)(-SIL)	Ex tb IIIC T100 °C Db		Ex tb IIIC T115 °C Db
BExS120E(-R)(-SIL)	Ex tb IIIC T100 °C Db	Ex tb IIIC T105 °C Db	
BExDS110D((-R)(-SIL)	Ex tb IIIC T100 °C Db		Ex tb IIIC T115 °C Db
BExDS110E(-R)(-SIL)	Ex tb IIIC T100 °C Db	Ex tb IIIC T105 °C Db	
BExDS120D(-R)(-SIL)	Ex tb IIIC T100 °C Db		Ex tb IIIC T115 °C Db
BExDS120E(-R)(-SIL)	Ex tb IIIC T100 °C Db	Ex tb IIIC T105 °C Db	
BExL15D(-R)	Ex tb IIIC T100 °C Db		Ex tb IIIC T115 °C Db
BExL15E(-R)	Ex tb IIIC T100 °C Db	Ex tb IIIC T105 °C Db	
BExL25D(-R)	Ex tb IIIC T100 °C Db		Ex tb IIIC T115 °C Db
BExL25E(-R)	Ex tb IIIC T100 °C Db	Ex tb IIIC T105 °C Db	
BExDL15D(-R)	Ex tb IIIC T100 °C Db		Ex tb IIIC T115 °C Db
BExDL15E(-R)	Ex tb IIIC T100 °C Db	Ex tb IIIC T105 °C Db	
BExDL25D(-R)	Ex tb IIIC T100 °C Db		Ex tb IIIC T115 °C Db
BExDL25E(-R)	Ex tb IIIC T100 °C Db	Ex tb IIIC T105 °C Db	
BExA110D(-R)	Ex tb IIIC T100 °C Db		Ex tb IIIC T115 °C Db
BExA110E(-R)	Ex tb IIIC T100 °C Db	Ex tb IIIC T105 °C Db	
BExA120D(-R)	Ex tb IIIC T100 °C Db		Ex tb IIIC T115 °C Db
BExA120E(-R)	Ex tb IIIC T100 °C Db	Ex tb IIIC T105 °C Db	
BExDA110D(-R)	Ex tb IIIC T100 °C Db		Ex tb IIIC T115 °C Db
BExDA110E(-R)	Ex tb IIIC T100 °C Db	Ex tb IIIC T105 °C Db	
BExDA120D(-R)	Ex tb IIIC T100 °C Db		Ex tb IIIC T115 °C Db
BExDA120E(-R)	Ex tb IIIC T100 °C Db	Ex tb IIIC T105 °C Db	
BExTS110D(-R)	Ex tb IIIC T100 °C Db		Ex tb IIIC T115 °C Db
BExDTS110D(-R)	Ex tb IIIC T100 °C Db		Ex tb IIIC T115 °C Db
BExH120D(-R)	Ex tb IIIC T100 °C Db		Ex tb IIIC T115 °C Db
BExDH120D(-R)	Ex tb IIIC T100 °C Db		Ex tb IIIC T115 °C Db
BExL25GD(-R)	Ex tb IIIC T100 °C Db		Ex tb IIIC T115 °C Db
BExDL25GD(-R)	Ex tb IIIC T100 °C Db		Ex tb IIIC T115 °C Db