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 99ATEX7906 X** Issue Number: **3**

(4) Product: **Electronic Sounders, Type BExS1*0*(-R)**
Loudspeakers, Type BExL*5*(-R)

(5) Manufacturer: **Pfannenberg GmbH**

(6) Address: **Werner-Witt-Straße 1, 21035 Hamburg, Germany**

(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 212952300/2 issue 2.

(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 April 2022

DEKRA Certification B.V.

R. Schuller
Certification Manager

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(13) # SCHEDULE

(14) **to EU-Type Examination Certificate KEMA 99ATEX7906 X** Issue No. **3**

(15) **Description**

Electronic Sounders, types
BExS110D(-R), BExS110E(-R), BExS120D(-R), BExS120E(-R),
Loudspeakers, types
BExL15D(-R), BExL15E(-R), BExL25D(-R), BExL25E(-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 enclosure provides a degree of protection of IP66/IP67 per EN IEC 60079-0 and EN 60529.

Electrical data

Type	Supply voltage	Supply current
BExS120D(-R) BExS120E(-R)	12 / 24 / 48 Vdc or 110 / 115 / 230 Vac	850 / 800 / 420 mA or 200 / 180 / 90 mA
BExS110D(-R) BExS110E(-R)	12 / 24 / 48 Vdc or 110 / 115 / 230 Vac	195 / 265 / 130 mA or 93 / 110 / 56 mA
BExL25D(-R) BExL25E(-R)	70 / 100 V (line) or 14.14 / 20 V (L.I. versions: 8 / 16 Ohms)	
BExL15D(-R) BExL15E(-R)	70 / 100 V (line) or 10.95 / 15.49 V (L.I. versions: 8 / 16 Ohms)	

(13) # SCHEDULE

(14) **to EU-Type Examination Certificate KEMA 99ATEX7906 X** Issue No. **3**

Marking

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)	Ex db IIC T4 Gb		Ex db IIB T4 Gb
BExS110E(-R)	Ex db eb IIC T4 Gb	Ex db eb IIB T4 Gb	
BExS120D(-R)	Ex db IIC T4 Gb		Ex db IIB T4 Gb
BExS120E(-R)	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	

DUST			
Ambient temperature	-50 °C to +55 °C	-50 °C to +60 °C	-50 °C to +70 °C
BExS110D(-R))	Ex tb IIIC T100 °C Db		Ex tb IIIC T115 °C Db
BExS110E(-R)	Ex tb IIIC T100 °C Db	Ex tb IIIC T105 °C Db	
BExS120D(-R)	Ex tb IIIC T100 °C Db		Ex tb IIIC T115 °C Db
BExS120E(-R)	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	

Installation instructions

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

(16) **Report Number**

No. 212952300/2 Issue 2.

(13) # SCHEDULE

(14) **to EU-Type Examination Certificate KEMA 99ATEX7906 X** Issue No. **3**

(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. 212952300/2 issue 2

(20) **Certificate history**

Issue 1 - 979060000	Initial certificate
Amd 2 - 209011400	Change of potting material used in the line-bushing of the EEx de versions and Extension of the ambient temperature range to -50 °C to +70 °C for all types
Issue 2 - 212952300	Assessment in accordance with newer edition of standards: EN 60079-0 : 2006 and EN 60079-1 : 2007
Issue 3 - 510042400-2	Assessment in accordance with newer edition of standards: EN IEC 60079-0 : 2018 and EN 60079-1 : 2014 Addition of assessment in accordance with EN 60079-31 : 2014 Appello Speech Sounders BExA… Sontel BExTS… are removed from the scope