

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 01ATEX2030 X** Issue Number: **3**

(4) Product: **Electronic Beacons, Types BExBG05D(-P), BExBG05E(-P) BExBG10D(-P), BExBG10E(-P), BExBG15D(P), BExBG15E(-P)**

(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 212952300/1 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 IIC T5...T4 Gb
II 2 G Ex db eb IIC T5...T4 Gb
II 2 D Ex tb IIIC T93 °C...T129 °C Db

Date of certification: 4 April 2022

DEKRA Certification B.V.

R. Schuller
Certification Manager



(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate KEMA 01ATEX2030 X**

Issue No. 2

(15) **Description**

Electronic Beacons, Types BExBG05D(-P), BExBG05E(-P) BExBG10D(-P), BExBG10E(-P), BExBG15D(P), BExBG15E(-P) are used to provide visual warning signals.

The type with Suffix D consists of an aluminium enclosure of type of flame protection enclosure "db".

The type with Suffix E consists of an electronic compartment made of aluminium, type of protection flameproof enclosures "db" and a terminal compartment made of aluminium, type of protection increased safety "eb".

Both types with suffix D and suffix E satisfy dust ignition protection by enclosure "tb".

Electronic Beacons with xenon are provided with a glass dome or optionally with a plastic lens cover and given the suffix: -P to the type designation, e.g. BExBG15E-P.

The enclosure provides a degree of protection of IP66/IP67 per EN IEC 60079-0 and EN 60529.

Electrical data

Beacon type	Supply voltage	Supply current
BExBG05D BExBG05D-P BExBG05E BExBG05E-P	12 / 24 / 48 Vdc or 115 / 230 Vac	750 / 300 / 180 mA or 140 / 55 mA
BExBG10D BExBG10D-P BExBG10E BExBG10E-P	12 / 24 / 48 Vdc or 115 / 230 Vac	1.45 A / 660 mA / 340 mA or 250 / 110 mA
BExBG15D BExBG15D-P BExBG15E BExBG15E-P	24 / 48 Vdc or 115 / 230 Vac	860 / 480 mA or 360 / 170 mA

(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate KEMA 01ATEX2030 X**

Issue No. 2

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 +40 °C	-50 °C to +60 °C	-50 °C to +70 °C
BExBG05D(-P)	Ex db IIC T5 Gb		Ex db IIC T4 Gb
BExBG05E(-P)	Ex db eb IIC T5 Gb	Ex db eb IIC T4 Gb	
BExBG10D(-P)			Ex db IIC T4 Gb
BExBG10E(-P)		Ex db eb IIC T4 Gb	
BExBG15D(-P)			Ex db IIC T4 Gb
BExBG15E(-P)		Ex db eb IIC T4 Gb	

DUST				
Ambient temperature	-50 °C to + 40 °C	-50 °C to +55 °C	-50 °C to +60 °C	-50 °C to +70 °C
BExBG05D(-P)	Ex tb IIIC T93 °C Db	Ex tb IIIC T108 °C Db		Ex tb IIIC T123 °C Db
BExBG05E(-P)	Ex tb IIIC T93 °C Db	Ex tb IIIC T108 °C Db	Ex tb IIIC T113 °C Db	
BExBG10D(-P)	Ex tb IIIC T99 °C Db	Ex tb IIIC T114 °C Db		Ex tb IIIC T129 °C Db
BExBG10E(-P)	Ex tb IIIC T99 °C Db	Ex tb IIIC T114 °C Db	Ex tb IIIC T119 °C Db	
BExBG15D(-P)	Ex tb IIIC T99 °C Db	Ex tb IIIC T114 °C Db		Ex tb IIIC T129 °C Db
BExBG15E(-P)	Ex tb IIIC T99 °C Db	Ex tb IIIC T114 °C Db	Ex tb IIIC T119 °C Db	

Installation instructions

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

(16) **Report Number**

No. 212952300/1 Issue 2.

(13) **SCHEDULE**

(14) **to EU-Type Examination Certificate KEMA 01ATEX2030 X**

Issue No. 2

(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. 212952300/1 issue 2.

(20) **Certificate history**

Issue 1 - 200911100	Initial certificate
Amd 1 - 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, EN 60079-1 : 2007 and EN 60079-7 : 2003
Issue 3 - 510042400-3	Assessment in accordance with newer edition of standards: EN IEC 60079-0 : 2018, EN 60079-1 : 2014 and EN 60079-7 : 2015 + A1 : 2018 Product types BExTBG05D is removed from the scope, Change of ambient temperature and marking