

(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 03ATEX2545 X** Issue Number: **2**

(4) Equipment: **Electronic Sounder/Beacon Type BExCS110-05D, Loudspeaker/Beacon Type BExCL15-05D and Apello/Beacon Type BExCA110-05D**

(5) Manufacturer: **Pfannenberg GmbH**

(6) Address: **Werner-Witt-Str. 1, D-21035 Hamburg, Germany**

(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 213833600.

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

EN 60079-0 : 2006

EN 60079-1 : 2007

(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 T4

This certificate is issued on October 14, 2010 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. Pijker
Certification Manager

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(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 03ATEX2545 X** Issue No. 2

(15) **Description**

Electronic Sounder/Beacon Type BExCS110-05D, Loudspeaker/Beacon Type BExCL15-05D and Apello/Beacon Type BExCA110-05D, housed in aluminium enclosures in type of protection flameproof enclosure "d", are used to provide acoustic signals and visual warning signals.

Electrical data

Electronic Sounder/Beacon Type BExCS110-05D:

Supply voltage	12 Vdc	24 Vdc	48 Vdc	115 Vac	230 Vac
Sounder Current [mA]	195	265	130	110	56
Beacon Current [mA]	750	300	180	140	55

Loudspeaker/Beacon Type BExCL15-05D:

Supply voltage	12 Vdc	24 Vdc	48 Vdc	115 Vac	230 Vac
Beacon Current [mA]	750	300	180	140	55

Loudspeaker Type	100 V line	8 Ohms	16 Ohms
Supply voltage [V]	100	10,95	15,49

Apello/Beacon Type BExCA110-05D:

Supply voltage	24 Vdc	115 Vac	230 Vac
Apello Current [mA]	480	90	45
Beacon Current [mA]	300	140	55

Installation instructions

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

Marking

The relation between the combined Sounder/Beacon, the ambient temperature range and the marking for gas application is given in the table below.

GAS	
Ambient temp.	-50 °C to +70 °C
BExCS110-05D	II 2 G Ex d IIB T4
BExCL15-05D	II 2 G Ex d IIB T4
BExCA110-05D	II 2 G Ex d IIB T4

(16) **Test Report**

KEMA No. 213833600.

(13) **SCHEDULE**

(14) **to EC-Type Examination Certificate KEMA 03ATEX2545 X** Issue No. 2

(17) **Special conditions for safe use**

In case of repair, contact the manufacturer for information on the dimensions of the flameproof joints.

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

Covered by the standards listed at (9).

(19) **Test documentation**

As listed in Test Report No. 213833600.