

- [2] **EQUIPMENT OR PROTECTIVE SYSTEM INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES DIRECTIVE 94/9/EC**
- [3] **EC-Type Examination Certificate Number:** PRESAFE 14 ATEX 5382X **Issue 1**
- [4] **Equipment or Protective System:** Excite
Explosion proof Sounder & Beacon – BHB 125/150
- [5] **Applicant – Manufacturer or Authorized representative:** Bartec Technor AS
- [6] **Address:** Post Box 658, Dusavikv. 39,
4007 Stavanger, Norway
- [7] **This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.**
- [8] **DNV Nemko Presafe AS, notified body number 2460 in accordance with Article 9 of Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system 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 reports listed in section 14.
- [9] **Compliance with the Essential Health and Safety Requirements has been assured by compliance with:**
EN 60079-0:2012 (IEC 60079-0:2011) , EN 60079-1:2007 (IEC 60079-1:2007) and
EN 60079-31:2009 (IEC 60079-31:2008)
- [10] **If the sign “X” is placed after the certificate number, it indicates that the equipment or protective system 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 and construction of the specified equipment or protected system. If applicable, further requirements of this Directive apply to the manufacturer and supply of this equipment or protective system.**
- [12] **The marking of the equipment or protective system shall include the following:**



II 2 G

Ex d IIC T4~T6 Gb

Ex tb IIIC T135°C~T85°C IP66

Date of issue: 2015-03-09

Asle Kaastad
For DNV Nemko Presafe AS
Information on electronic signature www.presafe.com



[13]

Schedule

[14] **EC-TYPE EXAMINATION CERTIFICATE No.:** PRESAFE 14 ATEX 5382X Issue 1

Certificate History

Issue	Description	Report no.	Issue date
0	Original issue	D0001566	2014-12-17
1	Marking plate updated with word 'Excite' under Type	D0001566	2015-03-09

[15] Description of Equipment or Protective System

This certificate covers two types of sounder & Beacons (combination units); BHB-125 is stainless steel and BHB-150 is GRP. These products consist of two different structures; single unit and a combination of several units called wall mounted combination. The single unit product is made up of; Main body, back-cover and front-cover, connected together by a spigot joint (flameproof joint). Furthermore the product has a sounder driver which is screwed into the front-cover by an Ex thread. A sintered disc is press fitted into a slot of this and kept in place by a press fitted ring. A glass dome is installed in the back-cover by using a cemented joint. Inside the enclosures it's installed different PCB, terminals and light sources. In addition a horn arrangement is attached to the front cover to distribute the sound coming out of the sound driver.

The structure of the wall mounted units is based on the same techniques as above but the units are individually (sounder, Beacon, Junction box). To electrically connect the different units together it's installed a connection device (type CT 20) with cemented joint. This is screwed into the different units by using Ex threads (M20* 1,5).

Each individually unit have four optional sizes of cable entries (M20/M25 or 1/2NPT, 3/4NPT) could be chosen as request.

Type Identification

Type BHB-125/150-1, single unit of sounder and beacon.

Type BHB-125/150-(X), wall mounted combination of one sounder and X numbers of beacons.

Type BHB-125/150-(X)J, wall mounted combination of one sounder, X numbers of beacons and one junction box.

Type BHB-125/150-(X)P, wall mounted combination of one sounder, X numbers of beacons and one pushbottom.

Electrical Data

Beacon / Light, Voltage ≤ 48 VDC, 100~240V AC(50/60Hz), ≤ 25 W

Alarm Sounder, Voltage ≤ 48 VDC, 100~240V AC(50/60Hz), ≤ 20 W

Loudspeaker, Voltage ≤ 115 VAC, ≤ 50 W

Degrees of protection (IP Code): IP 66

Ambient temperature:

Product	Ambient temperature	Marking
BHB 125 / 150	Tamb=-40°C~+70°C	Ex d IIC T4 Gb. Ex tb IIIC T135°C IP66.
	Tamb=-40°C~+60°C	Ex d IIC T5 Gb. Ex tb IIIC T100°C IP66.
	Tamb=-40°C~+55°C	Ex d IIC T6 Gb. Ex tb IIIC T85°C IP66.

[16] Project No.: PRJC-513004-2014-PRC-NOR

Descriptive Documents

Number	Title	Rev.	Date	Sheets
55070100000	General Drawing SB 125	1.01	13.03.05	1
55070100001	Dispense Drawing SB 125	1.01	13.03.05	1
55070100002	Part List SB 125	1.01	13.03.05	1
55050110102	Back Cover BC 125	1.01	13.03.05	1
55050110101	Main body SB 125	1.01	13.03.05	1
55050110103	Front cover SB 125	1.01	13.03.05	1
55060170107	Glass cover	1.01	13.03.05	1
55020100010	CT 20	1.01	13.03.05	1
55070100000 / -NJ / -NP	General Drawing SB 125	1.01	13.03.05	3
55070100001 / -NJ / -NP	Disperse Drawing SB 125	1.01	13.03.05	3
55070100002 / -NJ / -NP	Part List SB 125	1.01	13.03.05	3
55070200000	General Drawing SB 150	1.01	13.03.05	1
55070200001	Dispense Drawing SB 150	1.01	13.03.05	1
55070200002	Part List SB 150	1.01	13.03.05	1
55050250101	Main body SB 150	1.01	13.03.05	1
55060250102	Back cover SB 150	1.01	13.03.05	1
55050250104	Front Cover SB 150	1.01	13.03.05	1
55070200002-N/ -NJ / - NP	Part List SB 150	1.01	13.03.05	3
55070200000-N/ -NJ / -NP	General Drawing SB 150	1.01	13.03.05	3
55070200001-N/ -NJ / -NP	Disperse Drawing	1.01	13.03.05	3
55060250401	Alternative lid screw for 150 series	1.01	13.08.25	1
55060250402	Alternative lid screw for 150 series	1.01	13.08.25	1
BSA-05-5	Nameplate Combined sounder & Beacon	A	14.10.21	1
BSA-10-5	List of types for Lights and sounders	A	14.12.03	1

Routine Test

A routine pressure test according to EN 60079-1 clause 16 shall be carried out on all enclosures with the following pressures

BHB 125 -1.4MPa

BHB 150 -1.4MPa

[17] Special Conditions for Safe Use

Repairs of the flameproof joints must be made in compliance with the structural specifications provided by the manufacturer. Repairs must not be made on the basis of values specified in tables 1 and 2 of EN/IEC 60079-1.

[18] Essential Health and Safety Requirements

See part 9 of this certificate

END OF CERTIFICATE