



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx PRE 14.0045X Issue No: 1 Certificate history:  
Status: **Current** Page 1 of 5 [Issue No. 1 \(2015-03-09\)](#)  
Date of Issue: **2015-03-09** [Issue No. 0 \(2014-12-12\)](#)

Applicant: **Bartec Technor AS**  
Post Box 658, Dusavikv. 39,  
4007 Stavanger  
**Norway**

Electrical Apparatus: **Excite Explosion-Proof Sounder & Beacon - BHB 125 & BHB 150**  
*Optional accessory:*

Type of Protection: **Flameproof and dust Ignition Protection by enclosure**

Marking:  
Ex d IIC T4~T6  
Ex tb IIIC T135°C~T85°C Gb (Tamb=-40 °C ~+70°C ) IP 66

Approved for issue on behalf of the IECEx  
Certification Body:

Asle Kaastad

Position:

Certification Manager

Signature:  
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](#).

Certificate issued by:

**DNV Nemko Presafe AS**  
Gautadalleen 30  
P.O.Box 73 Blindern  
0314 Oslo  
Norway





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Manufacturer: **Bartec Technor AS**  
Post Box 658, Dusavikv. 39,  
4007 Stavanger  
**Norway**

Additional Manufacturing  
location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

## STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

**IEC 60079-0 : 2011** Explosive atmospheres - Part 0: General requirements  
Edition:6.0

**IEC 60079-1 : 2007-04** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:6

**IEC 60079-31 : 2008** Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:1

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

## TEST & ASSESSMENT REPORTS:

*A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in*

### Test Report:

[CN/CQM/ExTR13.0039/00](#)

[NO/NEM/ExTR13.0026/00](#)

[NO/PRE/ExTR14.0040/01](#)

### Quality Assessment Report:

[NO/NEM/QAR07.0003/06](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

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 (M36\*1.5). 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 additional 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 sizes of cable entries (M20/M25 or 1/2NPT, 3/4NPT) could be chosen as request.

### Designation

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.

### CONDITIONS OF CERTIFICATION: YES as shown below:

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.



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## EQUIPMENT (continued):

### Electrical Ratings:

Beacon / Light, Voltage  $\leq 48$  VDC, 100~240V AC(50/60Hz),  $\leq 25$ W  
Alarm Sounder, Voltage  $\leq 48$  VDC, 100~240V AC(50/60Hz),  $\leq 20$ W  
Loudspeaker, Voltage  $\leq 115$  VAC,  $\leq 50$ W

### 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.

### 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



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):**

Marking plate updated with word 'Excite' under Type