

# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV GL SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

## This is to certify:

**That the Bridge Navigational Watch Alarm System (BNWAS)**

with type designation(s)  
**beWatch**

Issued to

**besecke GmbH & Co. KG**  
**Bremen, Germany**

is found to comply with the requirements in the following Regulations/Standards:

Regulation **(EU) 2019/1397,**

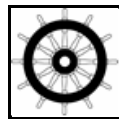
**item No. MED/4.57. SOLAS 74 as amended, Regulations V/18 & V/19, IMO Res. A.694(17),  
IMO Res. MSC.128(75), IMO Res. MSC.191(79), IMO Res. MSC.302(87), IMO MSC.1/Circ.1474**

Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2025-03-01**.

Issued at **Hamburg** on **2020-03-02**

DNV GL local station:  
**Hamburg**



for **DNV GL SE**

Approval Engineer:  
**Jan Reinecke**

Notified Body  
No.: **0098**

**Gerhard Aulbert**  
**Head of Notified Body**

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (module D, E or F), as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment", signed February 27th, 2004, and amended by Decision No 1/2018 dated February 18th, 2019.

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL SE of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.



## Product description

The Bridge Navigational Watch Alarm System beWatch consists of the following equipment:

- Operational Displays, type approved in acc. to IEC60945 (2002) and IEC62288 (2014) with minimum resolution of 800 (H) x 480 (V) pixel.
- Main beWatch Controller, Software Version 1.0.x
- Reset button, WAR 220.1.0.0 or Reset button, Schlegel RRJVATLR, RRJTLRE01 or RRJTLRE02
- Key Switch, Schlegel RRJVASSA28
- Ext. Watch alarm buzzer 1st stage, WAB 220.2.0.0 or Alarm buzzer, Schlegel RRJVANSNG
- Watch alarm panel 2nd stage, WAP 220.2.0.0 or AllViu Duty alarm panel with buzzer
- Signal device with sounding and triangle 3rd stage, WAP 220.4.0.0 or AllViu Duty alarm panel with Buzzer

Optional equipment:

- Failure alarm panel, FAP 220.1.0.0 (only if AllViu duty alarm panels not used)
- PIR Motion sensor, WMS 220.2.0.0
- Distr. Box for PIR Motion sensor, WMS Distr. Box

## Application/Limitation

None

## Type Examination documentation

DNV GL No	Document ID	Rev.	Description
5	467	2005-12-16	Certificate: BSH Compass Safe distance
4		2013-06-20	Report: GL Test Report 2
3		2013-06-20	Report: GL Test Report 1
2		1.0.004	Manual: User Manual beWatch
1		01	Report: Test Report of BNWAS

## Tests carried out

- Performance testing: IEC 62616 (2010) incl. Corr. 1 (2012)
- Environmental testing: IEC 60945 (2002) incl. Corr. 1 (2008)
- Serial interface testing: IEC 61162-1 (2016), IEC 61162-2 (1998)
- Presentation of navigational information: IEC 62288 (2014)
- Bridge Alert Management: IEC 62923-1 (2018), IEC 62923-2 (2018)

## Marking of product

According to IEC 60945, Sect.4.9:

The product to be marked with following information, where practicable:

- Identification of the manufacturer,
- Equipment type number or model identification under which it was type tested,
- Serial number of the unit,
- Compass safe distance.

Alternatively, the marking may be presented on a display at equipment start-up, and in case of fixed equipment compass safe distance may be given in the equipment manual.

According to Article 10 of the Council Directive (MED):



Job Id: **344.1-009132-1**  
Certificate No: **MEDB000053T**

- Wheel mark to be affixed visibly, legibly and indelibly to the product or to its data plate and, where relevant, embedded in its software. Where that is not possible or not warranted on account of the nature of the product, it shall be affixed to the packaging and to the accompanying documents.
- Wheel mark to be affixed at the end of the production phase.

For specific products, manufacturers may use an appropriate and reliable form of electronic tag instead of, or in addition to, the wheel mark.

END OF CERTIFICATE