DNV·GL

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB000053T

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:
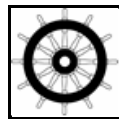Regulation **(EU) 2019/1397,**
item No. MED/4.57. SOLAS 74 as amended, Regulations V/18 & V/19, IMO Res. A.694(17), IMO Res. MSC.128(75), IMO Res. MSC.191(79), IMO Res. MSC.302(87), IMO MSC.1/Circ.1474

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

Approval Engineer:
Jan Reinecke

Notified Body
No.: **0098**

for **DNV GL SE**

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Gerhard Aulbert
Head of Notified Body

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 RRJVANSG
- 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):

- 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