DNV·GL

Certificate No:
MEDB00001VW

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)
BNWAS Platinum

Issued to
Wärtsilä SAM Electronics GmbH
Hamburg, Germany

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2015/559,**
Annex A.1, item No. A.1/4.57 and Annex B, Module B in the Directive; SOLAS 74 as amended, Regulation V/18, IMO Res. A.694(17), MSC.128(75) & 191(79)

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

This Certificate is valid until **2017-10-18**.

Issued at **Hamburg** on **2016-12-05**

DNV GL local station:
Hamburg

Approval Engineer:
Jan Reinecke

Notified Body
No.: **0098**

for **DNV GL SE**

Sven Dudszus
Head of Notified Body

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.

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Product description

The Bridge Navigational Watch Alarm System, type BNWAS Platinum, consists of the following equipment:

- Duty Alarm Panel, DAP2200, Software Vers. 2.1.yy.v v
- Watch Alarm Push Button, 271.150.720 or 271.153.864

with
- Data Processing Unit, DPU2010, Software Vers. 1.1.yy.v v, Vers. 2.0.yy.v v , Vers. 2.1.yy.v v
- Binary Input Module, BIM2200 or Binary Relay Module BRM2200 or Binary Input and Output Module BXM2200
- Interface Module, IFM2200
- Power Filter Module, PFM2200

or
with
- Data Processing Unit, DPU2020, Software Vers. 1.1.yy.v v, Vers. 2.0.yy.v v , Vers. 2.1.yy.v v
- Binary Output Module RO-20-CO (Relay 20 channels) or Solid State Output Module SS.16-1.25A.

Optional equipment:
- Alarm Buzzer, 24V, IP65, 271 126 309
- Accommodation Alarm Panel, AAP2010
- Accommodation Alarm Panel, DAP2200
- Buzzer Roshni, ROLP/R/S
- Buzzer Roshni, ROLP/R/D
- Alarm Panel, AP401
- Buzzer Digisound, B/SM28
- Dead Man Alarm reset Box (bulkhead mounted), 271.118.427
- Watch Alarm Acknowledge Box, 271.153.860
- Watch Alarm Motion Sensor Kit, WMS220.2.0.0
- Serial Interface Module, SIO2010
- Serial Interface Module, SIM401
- Binary Solidstate Module, BSM2200
- Binary Input Module BI.40-SUP-E (40 channels) or BI.40-INT-EXT (40 channels with supervision)
- Power Filter Module, PF.C1

Application/Limitation

None

Type Examination documentation

Tests carried out

Applicable tests according IEC60945(2002) incl. Corr.1(2008),
IEC61162series, IEC62288 Ed.2.0(2014), IEC62616(2010) incl. Corr.1(2012).

Marking of product

According to Article 10 of the Council Directive (MED):
· The wheel mark shall 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.
· The wheel mark shall be affixed at the end of the production phase.
· The wheel mark shall be followed by the identification number of the notified body, where that body is involved in the production control phase, and by the year in which the mark is affixed.
· The identification number of the notified body shall be affixed by the body itself or, under its instructions, by the manufacturer or the manufacturer's authorised representative.

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