

VL - BNWAS - Bridge Navigation Watch Alarm System

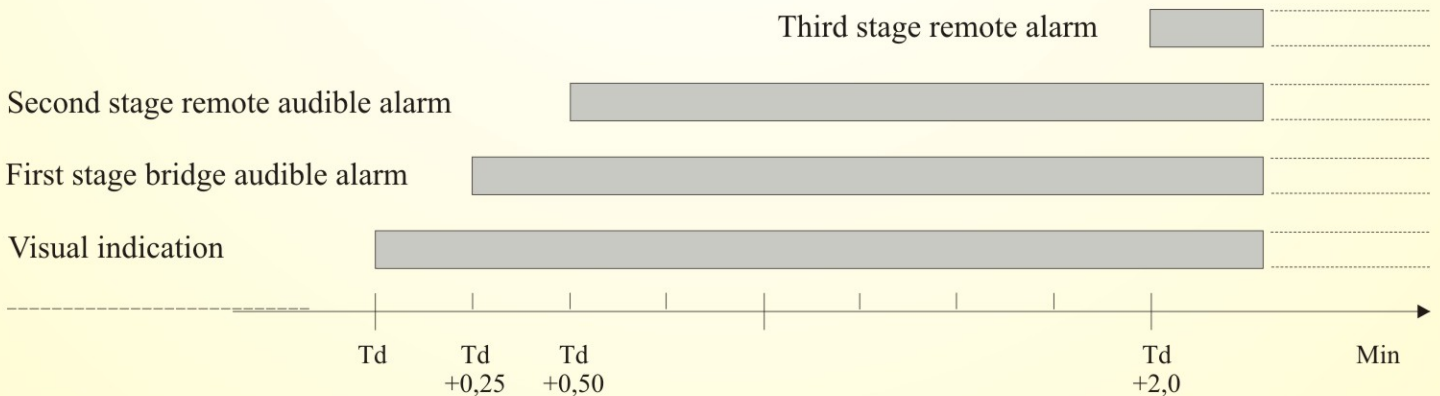
The VL-BNwas was developed to detect the awareness of the officer of watch (OOW) to avoid accidents. In case the OOW is incapable, the system automatically generates several alarm stages. Due to its modular design it will be possible to suit on each dimension of vessel. The Bridge Navigation Watch Alarm System also have the capability to generates alarms at un-acknowledges alarms from nautical equipment.



The system meets the following standards:

- IEC 60 945
- IEC 62 162-1
- IEC 62 616
- IEC 62 288
- IEC 61 162
- IMO A.694 (17)
- IMO A.830 (19)
- IMO MSC.128 (75)

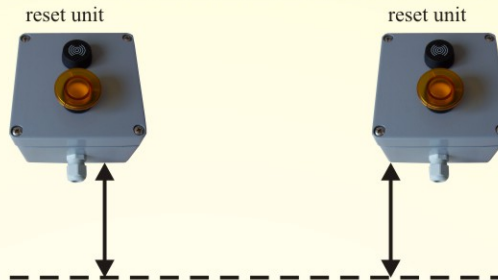
Operational sequence of indications and alarms



(Td = selected dormant period)

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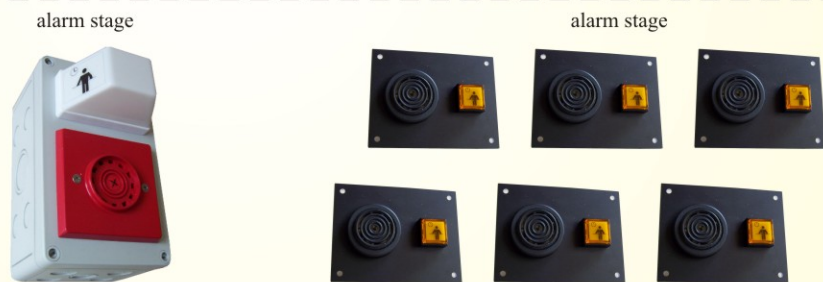
Bridge Wings



Bridge Area



Crew Area



A Bridge Navigation Watch Alarm System (BNWAS) has to be installed as follows:

- ships of 150 gross tonnage and upwards and passenger ships irrespective of size constructed on or after 1 July 2011,
- passenger ships irrespective of size constructed 1 July 2011, not later than first survey after 1 July 2011,
- ships of 3,000 gross tonnage and upwards constructed before 1 July 2011, not later than the first survey after 1 July 2012,
- ships of 500 gross tonnage and upwards but less than 3,000 gross tonnage constructed before 1 July 2011, not later than the first survey after 1 July 2013
- ships of 150 gross tonnage and upwards but less than 500 gross tonnage constructed before 1 July 2011, not later than the first survey after 1 July 2014