

Bridge Navigational Watch Alarm System (BWAS-2000)

CABLE-LESS & SIMPLEST INSTALLATION
EXACT COMPLANT WITH IMO & CLASS REGULATION



B-I INDUSTRIAL CO., LTD.

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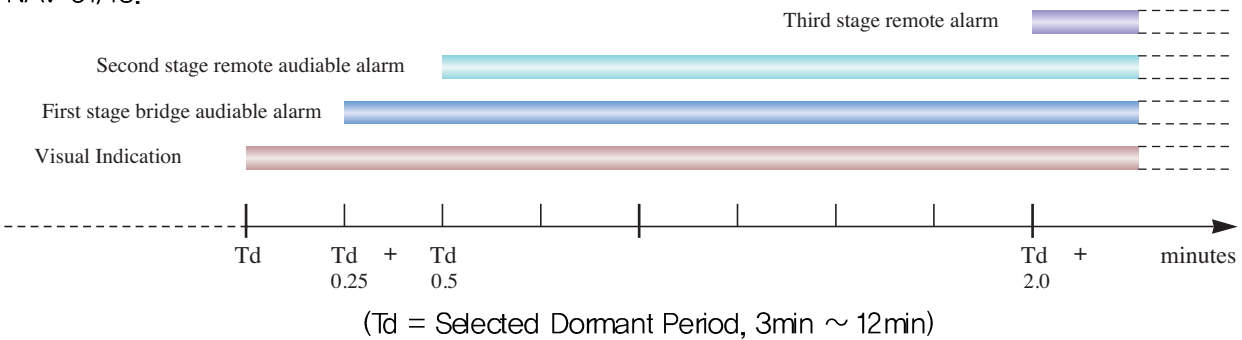
BWAS-2000

IMO NEW REGULATION FOR BNWAS



The purpose of a bridge navigational watch alarm system (BNWAS) is to monitor bridge activity and detect operator disability which could lead to marine accidents. The system monitors the awareness of the Officer of the Watch (OOW) and automatically alerts the Master or another qualified OOW if for any reason the OOW becomes incapable of performing the OOW's duties.

BNWAS should be conformed to the requirements of IMO Resolution MSC.128(75), MSC 81/23/2 and NAV 51/18.



- Ships of 150 G/T and upwards and passenger ships irrespective of size constructed on or after [1–July–2011]
- All Passenger ships irrespective of size constructed before [1 July 2011] : First S/E survey after [1 July 2012]
- Ships of 3,000 gross tonnage and upwards constructed before [1 July 2011] : First S/E survey after [1 July 2012]
- Ships of 500 gross tonnage and upwards but less than 3,000 gross tonnage, constructed before [1 July 2013]

Certificate status of BWAS-2000

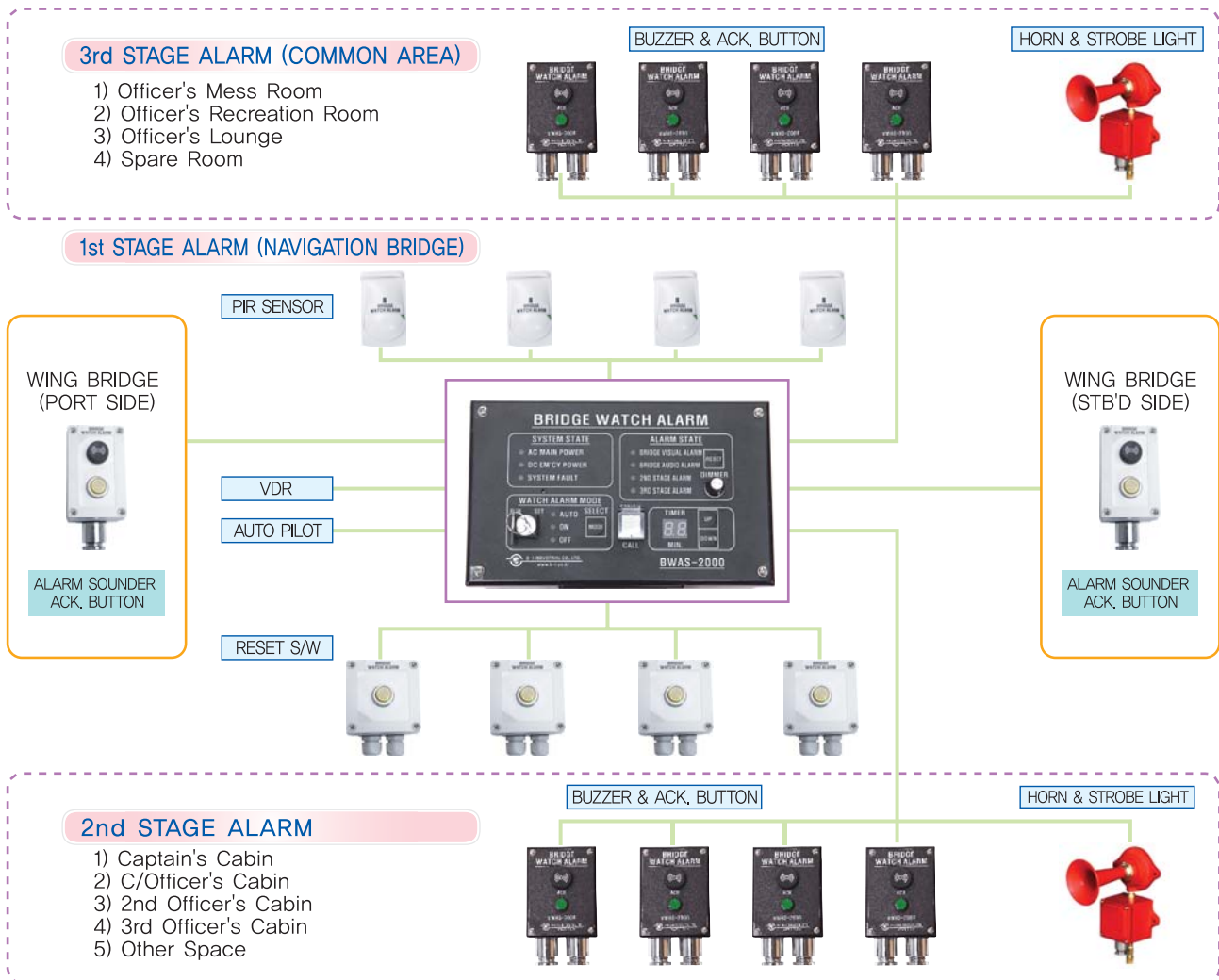
- DNV (Det Norske Veritas)
- LR (Lloyd's Register of Shipping)
- KR (Korean Register of Shipping)



REMARK

BWAS-2000 holds a type approval certificate issued by DNV, LR, KR & KG. If other class's certificate is required, we will apply and obtain it within 2 months.

System Configuration



Key Features

- Cable-less & Minimum Cable Layout using LAN / Power Line Communication
- Simple & Cost saving installation can be undertaken by competent ship's engineer
- Exact Compliant with IMO resolution MSC 128(75)
 - Applied all marine class type approval & certificate.
 - Monitors the watch officer's presence
 - Various Interface with RS 485, NMEA, etc.
- High Reliable operation (PIR Motion Sensor)
 - Wide Detecting Range (12m x 12m, 85' Wide)
 - Applicable to Various Application using Quad Zone Logic
 - Emergency Call Function
- Interface to VDR, Auto-pilot & Ship's alarm system

Specification for **BWAS-2000**

1) Main Control & Alarm Panel (MCU)

- Main Power Source : 110 / 220V AC
- Wall or Flush Mounting
- Output : RS 485, 422, NMEA0183 VDR (No interface box needed)
- Automatic Dimmer Function
- Interface Signal
 - 2nd Stage Alarm Unit
 - Reset Switch
- Back up Power Source : DC 24V
- Input : RS 485, 422, NMEA0183 Autopilot
- Emergency Call Facility
 - 3rd Stage Alarm Unit
 - PIR Motion Sensor

2) 2nd & 3rd Stage Alarm Unit

- Power : DC 12V
- Construction (Mild Steel Enclosure)
 - Internal Buzzer
 - Alarm LED
 - Reset Button

3) Alarm Reset Switch

- Watertight Type (Wing Bridge)
- Mild Steel Enclosure
- Non Water Tight Type (Nav. Bridge)

4) PIR Motion Sensor

- Power Source : 12V DC
- Detecting Range : 12m / 85°
- Applicable to various Application using QUAD zone logic



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