

BRIDGE NAVIGATIONAL WATCH ALARM SYSTEM

BNWAS (HBN-117)

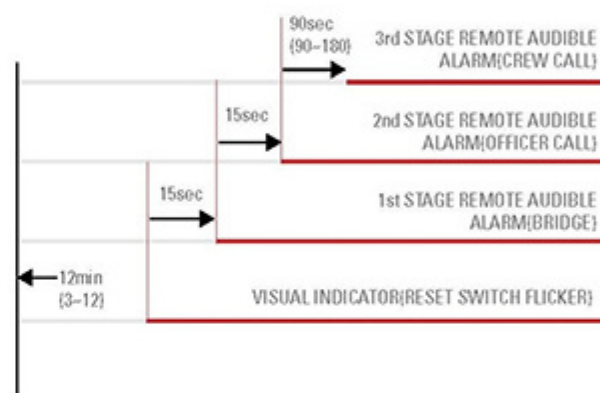
The purpose of a bridge navigational watch alarm system is to monitor bridge activity and detect operator disability which could lead to marine accidents.

The system monitors the awareness of the Officer of the Watch(OOW) and automatically alerts the captain or another qualified OOW if for any reason the OOW becomes incapable of performing the OOW's duties.

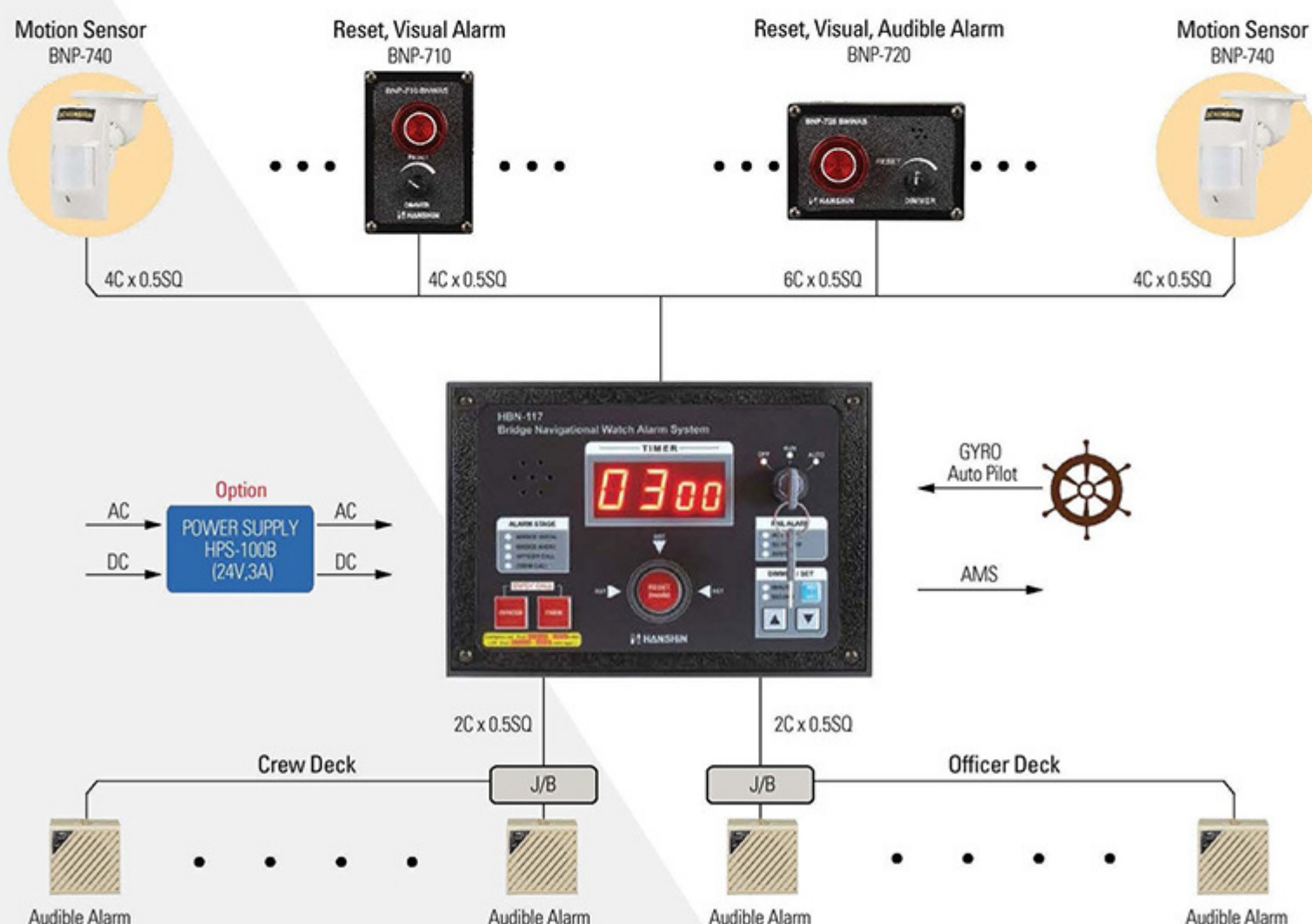
This purpose is achieved by a series of indications and alarms to alert first the OOW and, if he is not responding, then to alert the Captain or another qualified OOW. Additionally, the BNWAS may provide the OOW with a means of calling for immediate assistance if required.

The BNWAS should be operational whenever the ship's heading or track control system is engaged, unless inhibited by the Captain.

Time Chart



| System Diagram |



BRIDGE NAVIGATIONAL WATCH ALARM SYSTEM

LOUD & CLEAR



| System Feature |

- User-friendly
- Dimmer control
- Emergency call facility
- Infrared motion sensor
- Auto-run input (Auto pilot, Gyro)
- Power supply DC24V or AC220V
- Fail indicator
- Alarm
 - Standard : 30ea
 - Option : max. 90ea
- Dimension (W x D x H mm) / Weight
 - Wall type : 270 x 110 x 188 / 3Kg
 - Flush type : 210 x 105 x 145 / 2Kg

MODEL	BNP-710F	BNP-710W	BNP-720F	BNP-720W
RESET & ALARM UNIT				
MOUNTING TYPE	FLUSH	WALL	FLUSH	WALL
DESCRIPTION	RESET, VISUAL ALARM	RESET, VISUAL ALARM	RESET, VISUAL, AUDIBLE ALARM	RESET, VISUAL, AUDIBLE ALARM
POWER SOURCE	DC24V, 25mA	DC24V, 25mA	DC24V, 25mA	DC24V, 25mA
SOUND LEVEL	none	none	85dBm, ver.vol & tone	86dBm, ver.vol & tone
IP GRADE	IP40	IP40	IP40	IP40
DIMENSION (WxDxH mm)	120 x 91 x 80	80 x 106 x 120	120 x 91 x 80	120 x 106 x 80
MATERIAL	STEEL	STEEL	STEEL	STEEL

MODEL	BNP-730F	BNP-730W	BNP-750A / R	BNP-740	MODEL	HPS-100B
RESET & ALARM UNIT					POWER SUPPLY	
MOUNTING TYPE	FLUSH	WALL	WALL	CEILING	MOUNTING TYPE	WALL
DESCRIPTION	AUDIBLE ALARM	AUDIBLE ALARM	RESET, VISUAL, AUDIBLE ALARM	MOTION SENSOR	IN PUT	AC110/220V, DC24V
POWER SOURCE	DC24V, 30mA	DC24V, 31mA	DC24V, 200mA / 15mA	DC24V, max. 17mA	OUT PUT	DC24V, 3.6A
SOUND LEVEL	80dBm	80dBm	83dBm	none	IP GRADE	IP20
IP GRADE	IP22	IP22	IP65	IP30	DIMENSION (WxDxH mm)	150 x 170 x 112
DIMENSION (WxDxH mm)	80 x 56 x 80	80 x 59 x 80	185 x 143 x 255	87 x 149 x 127	MATERIAL	STEEL
MATERIAL	ABS	ABS	ABS	ABS		