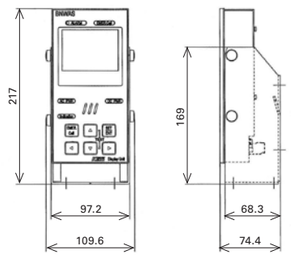
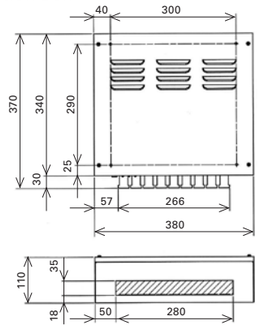
Dimensions

Unit:mm

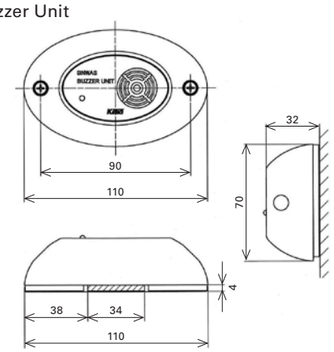
DIspray Unit



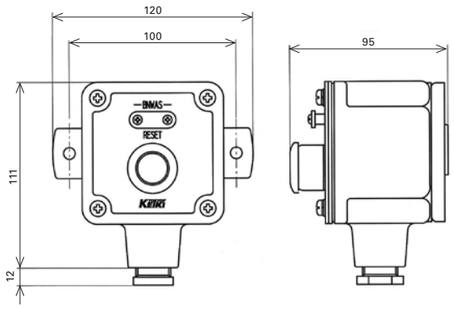
Junction Box



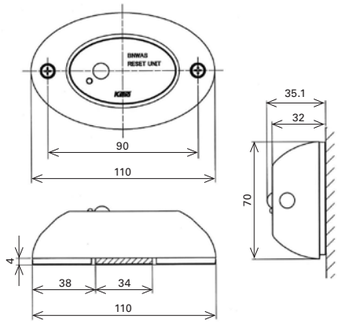
Buzzer Unit



Water Proof Reset Unit



Reset Unit



Interface application with the Autopilot (HCS) is different depending upon the Flag / Classification of the vessel. Please check and confirm.

Design and specifications are subject to change without prior notice, and without any obligation on the part of the manufacturer.

⚠ CAUTION Before operating this equipment, you should first thoroughly read the operator's manual.

TOKYO KEIKI

TOKYO KEIKI INC.

https://www.tokyokeiki.jp/e/

Marine Systems Company

Head Office	2-16-46, Minami-Kamata, Ohta-ku,Tokyo 144-8551 JAPAN	TEL.+81-3-3737-8611	FAX.+81-3-3737-8663
TOKYO KEIKI (SHANGHAI) CO.,LTD.	C-1407, Orient International Plaza. No.85 Lou Shan Guan Rd., Shanghai 200336.CHINA	TEL.+86-21-3223-1252	FAX.+86-21-6278-7667
TOKYO KEIKI U.S.A., INC.	625 Fair Oaks Ave, Suite190, South Pasadena, California 91030 U.S.A.	TEL.+1-626-403-1500	FAX.+1-626-403-7400
Busan Liaison Office	Shindonga bldg. Room 1003, 749-1 Gayadaero, Busanjin-gu, Busan 614-783, KOREA	TEL.+82-51-802-2190	FAX.+82-51-802-2188
Singapore Branch	No. 2 Jalan Rajah #07-26/28, Golden Wall Flatted Factory, Singapore 329134	TEL.+65-6254-1877	FAX.+65-6254-1745

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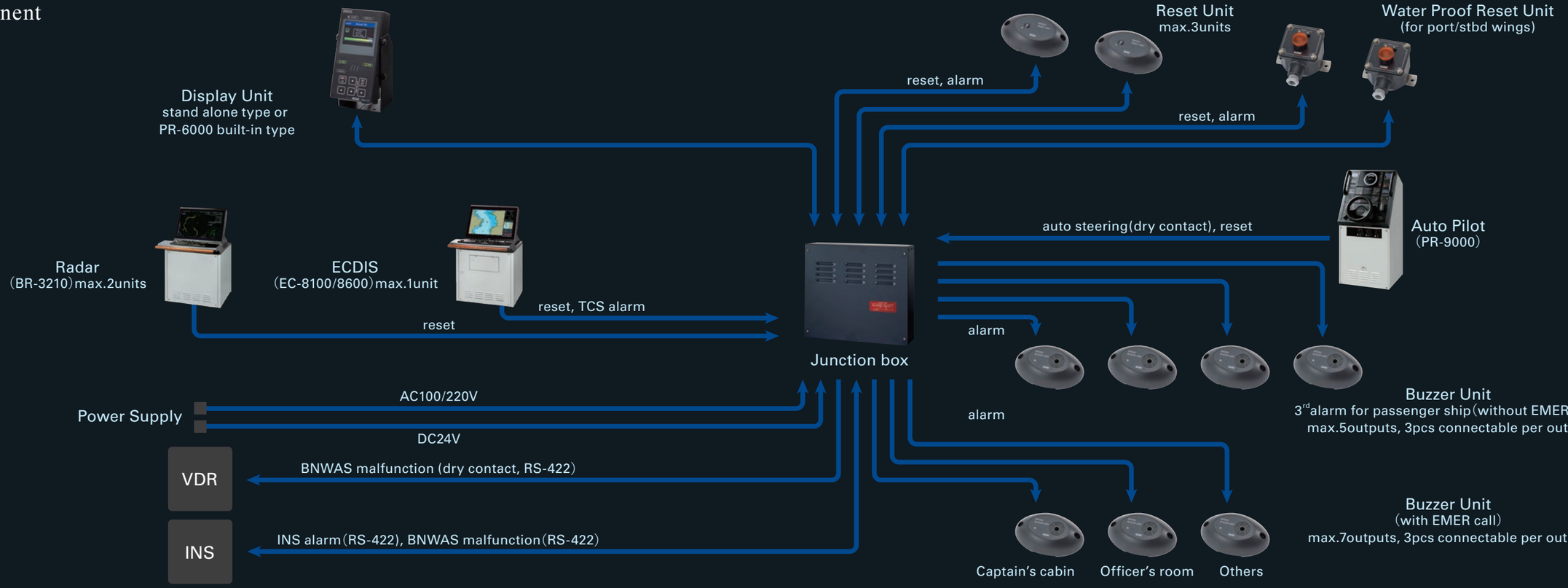
TOKYO KEIKI

WAS-1000

Bridge Navigation Watch Alarm System (BNWAS)

System component



Bridge Navigation Watch Alarm System (BNWAS)

This system gives an alarm to prevent accidents at sea if it detects abnormalities in the watch officer's condition. If the system is not reset within the designated time period, the system will give visible and audible alarms in stages, as well as inform other officers.

In accordance with the SOLAS Chapter 5 regulation 19 revision, it is required that all new building vessels built on and after July 1, 2011 (passenger vessels and all other vessels of 150gt and over) have BNWAS installed. Also, existing vessels built before July 1, 2011, with relation to the vessel type and size, must also have BNWAS as per the SOLAS defined time periods.

■ Function and features

- Conforms with IMO MSC. 128 (75)
- Emergency Call transfer feature for selected rooms
- Self Diagnostic Check
- Timer reset option when connected with RADAR/ECDIS/AUTOPILOT
- Reset via motion sensor on the reset unit
- Option to build the display unit into the PR-9000 Autopilot for new building vessels

■ Components

- Display Unit ·····×1pc
- Junction Box ·····×1pc
- Reset Unit ·····×Max 3pcs
- Water Proof Reset Unit ···×Max 2pcs
- Buzzer Unit ·····×Max 36pcs

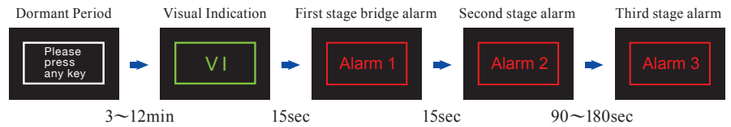
■ Power

AC100~220V 1ϕ 50/60Hz(Max.120VA)
DC24V(Max.5A)

Display Unit

System condition with relation to watch observation

Each stage's display



Alarm pattern for each stage

Green flash Orange flash Red flash Audible alarm

Display	VI	Alarm 1	Alarm 2	Alarm 3
Display Unit	✸	✸ 🔊	✸ 🔊	✸ 🔊
Reset Unit	✸	✸	✸	✸
Water Proof Reset Unit	✸	✸ 🔊	✸ 🔊	✸ 🔊
Buzzer Unit(Alarm2)			Selected units only 🔊	🔊
Buzzer Unit(Alarm3)				🔊

By performing the following, the system will reset and return to the Dormant Period

- Pushing a button on the Display Unit
- By movement near the motion sensor on the reset unit
- By pressing the button on the Water tight reset unit
- By performing an operation on the RADAR/ECDIS/or Autopilot (if connected to the BNWAS system)