



## KW810 (BNWAS)



### BRIDGE NAVIGATION WATCH ALARM SYSTEM

The IMO Committee approved the draft amendments to the SOLAS Regulation that requires the mandatory carriage of a bridge navigation watch alarm system.

#### BACKGROUND:

A bridge watch alarm system is a device which triggers an alarm if an Officer on Watch (OOW) becomes incapable of performing the OOW's duties. IMO had adopted the performance standard as MSC. 128 (75) as there are ships which have already installed this type of equipment on a voluntary basis.

Currently, there are two systems, i.e., one which requires the watch officer to press a button at intervals (if he fails to do so an alarm is triggered), the second system which detects movements of the watch officer, through motion sensor technology. (So far as the sensor finds movements of the watch officer the alarm will not go off).

The draft amendments stipulate the following dates for implementation:

1st July 2011 on or after for all new builds of 150 gt or over.

Ships constructed prior to the 1st July 2011 will have to fit the BNWAS by the 1st survey after:

1st July 2012 for cargo ships of 3000 gt or over and all passenger ships.

1st July 2013 for cargo ships of 500 gt or over but less than 3000 gt.

1st July 2014 for cargo ships of between 150 gt or over but less than 500 gt.

These requirements also apply to ships not engaged on international voyages.



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### SPECIFICATIONS

**Power:** 28VDC  
**Input 1:** NMEA0183 GPS Speed \$GPVTG  
**Input 2:** NMEA0183 Autopilot or Autopilot Engaged  
**Output:** NMEA0183 for VDR  
**Dimensions:** Mild steel enclosure 300 x 300 x 155mm IP57

**Power:** 12VDC  
**Input:** All Alert stages and Audible Alarm  
**Dimensions:** ABS Moulded plastic 135 x 185 x 85mm IP65.

**Power:** 12VDC  
**Input:** Bridge Alert and Audible Alarm  
**Dimensions:** ABS Moulded plastic 120 x 90 x 50mm IP65.

**Power:** 12VDC  
**Input:** Watch Alert and Audible Alarm  
**Dimensions:** ABS Moulded plastic 120 x 90 x 50mm IP65.

**Power:** 12v DC

**3 x Dry Contacts for:**

**OTHER OUTPUTS**  
 3rd Stage Active Watch Alarm for General Ship Alarm.  
 4th Stage for activating SSAS Distress system  
 System Faults.

**APPROVALS:**

IEC60945



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