

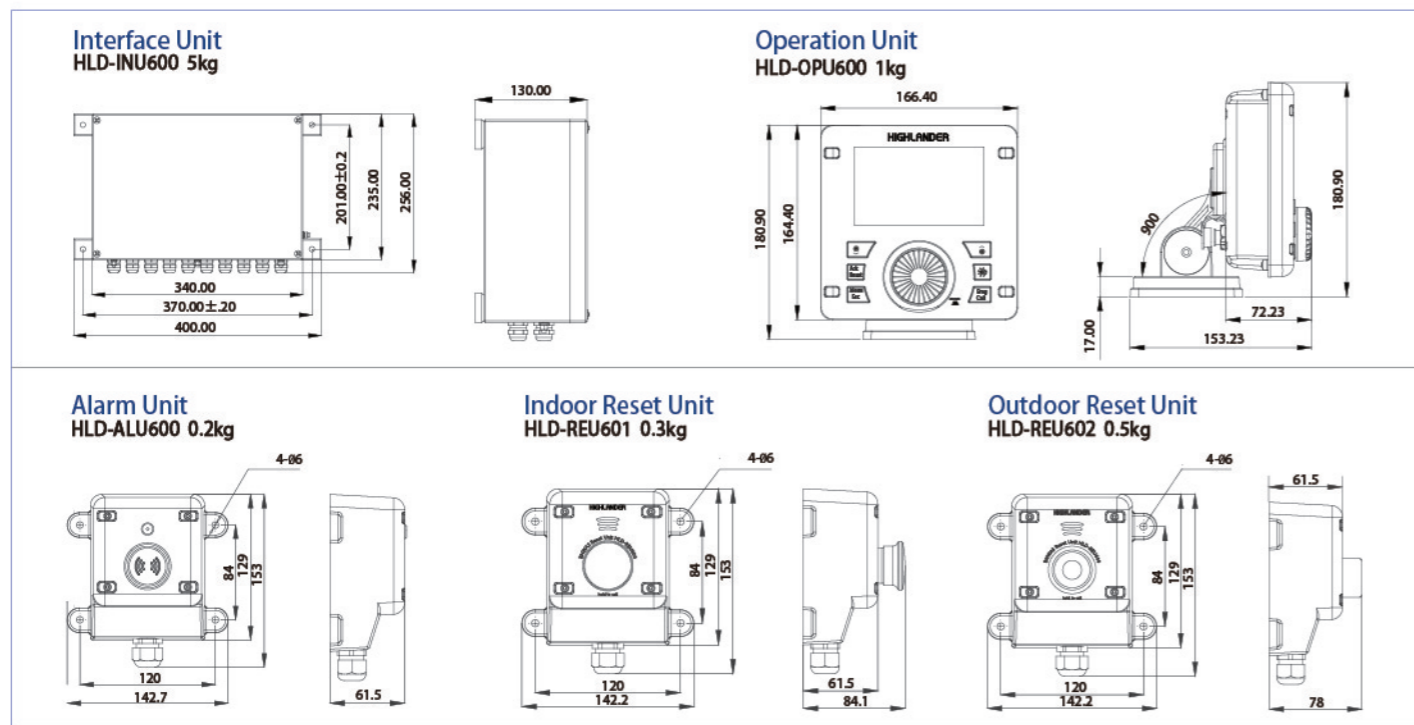
China Classification Society (CCS) type approval
EU MED B + D Type Approval

BNWAS

BRIDGE NAVIGATIONL WATCH ALARM SYSTEM

HLD-BNwas 600

【Dimensional Drawings】



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The HLD-BNWS 600 is Highlander's 2nd generation of bridge navigational watch alarm, a mandatory and highly cost-effective shipboard safety system built with the very best in electromechanical componentry and microelectronic design. Its purpose is to ensure that the ship's watch officer is rightly on bridge duty and to immediately notify his fellow crew members in the event he falls asleep or becomes incapacitated.

The BNWAS works on the basis of the logic sequence stipulated in IMO Resolution MSC.128(75) and IEC 62616 whereby the officer of the watch (OOW) needs to periodically press a button to reset a countdown sequence. At the end of that sequence, called the "dormant period," which is selectable from 3 to at most 12 minutes, the BNWAS flashes lights in the bridge wheelhouse. The OOW then has 15 seconds to press the reset button. If he fails to do so, an audible alarm is sounded, just in the wheelhouse. He then has 15 more seconds to press the reset button. If he still does not, a "2nd stage" alarm is triggered whereby loud alarms are emanated by small speaker devices fitted in the back-up officer's and/or master's cabins. Finally there is a "3rd stage" alarm in which even more speaker devices, located in the cabins of additional crew members, sound off. 3rd stage alarming happens when the system is not reset during the first 90 seconds of the 2nd stage alarming.

【Attributes and Features】

- Handsome, stylish devices, yet robust construction.
- Highly legible colour touch screen operation unit, resolution 800x480, with distinct day and night display modes.
- Simple, intuitive operation. Controls are identified by both alphanumeric labels and graphic mimic objects.
- The flashing light uses a revolving mirrored mechanism like emergency vehicles.
- Reset units also perform visual and audible alarming.
- Motion detectors are high quality, covering large areas and not prone to false resetting.
- High-capacity battery guarantees no interruptions.
- Signal input and outputs on IEC 61162 serial connection and dry contacts.



MENU



DAY MODE



NIGHT MODE

【Technical Specifications】

- Power Supply: 110/220 VAC 50/60Hz and 24VDC 30W Input
- Inputs:
 - GPS: For date & time
 - Autopilot, Radar, ECDIS: For Reset & Back-up Navigator call
- Output: VDR, external Alarm System

【Functions】

MODE	FUNCTION	DESCRIPTION
Operational Modes	On	Vessel is at sea.
	Off	Vessel is moored and BNWAS is not needed.
Alarm	Visual Indication	The HLD-BNWS 600 has a settable dormant period of 3 to 12 minutes (the value is set at the operation unit). At the end of the dormant period the system triggers the visual alarm. Now the OOW has 15 seconds to perform RESET (this may also be achieved by his movement alone).
	First Stage Audible Alarm	If the RESET fails to occur, the 1st stage audible alarm sounds in the bridge wheelhouse (and nowhere else). Once again, the OOW has 15 seconds to perform RESET (this may also be achieved just by his movement).
	Second Stage Remote Audible Alarm	If the RESET still does not happen, the 2nd stage remote audible alarm sounds in the back-up officer and master's cabins. Now the OOW has 90 seconds to perform RESET (this may also be achieved by his movement alone).
	Third Stage Remote Audible Alarm	If RESET has still not taken place, the 3rd stage remote audible alarming commences. To the loud alarming in the back-up officer and master's cabins is added more alarming in additional crew locations.
	Emergency Calling	Pressing the EMERG. CALL key on the operation unit summons the master and back-up officer to the bridge.
Resetting	Back-up Navigator Alarm	The back-up officer can be summoned to the bridge through the alarm unit fitted in his cabin.
	Manual Reset	<ul style="list-style-type: none"> • Press the RESET key on the operation unit to dismiss the visual alarm and initiate a new dormant period. • Press any key on the operation unit or touch any point on the display screen to reset the system. This dismisses the visual alarm and initiates a new dormant period. • Press the RESET unit button (normally mounted at the bridge control console and/or in the bridge wings) to dismiss the visual alarm and initiate a new dormant period. • Motion sensors detecting the presence of a person in movement will reset the system and initiate a new dormant period.
Connectivity	IEC61162 Format	VDR or other external devices.
	Dry Contact Signal Output	Central alarm system.

【Configuration】

Parts	MODE	Dimension/mm (LxWxH)	Weight/kg	Number	Installation	Note
Standard components						
Interface Unit	HLD-INU600	340 ×235×120	5	1	Bridge/Wall Mount	IP22
Operation Unit	HLD-OPU600	165 ×165×40	1	1	Flush Mount/Desk Mount	IP22
Alarm Unit	HLD-ALU600	96 ×96×60	0.2	5- 18	Flush Mount / Wall Mount	IP22
Indoor Reset Unit	HLD-REU601	96 ×96×60	0.3	1-2	Flush Mount / Wall Mount	IP22
Outdoor Reset Unit	HLD-REU602	153 ×143×63	0.5	2-4	Wall Mount	IP56
Optional components						
Motion Detection Unit	HLD-MDU600	292x179x136	0.2	1-4	Flush Mount / Wall Mount	IP22
Visual Alarm Unit	HLD-VAU600	96 ×96×140	0.4	1-2	Flush Mount / Wall Mount	IP22
Battery Unit	HLD-BAU600	340 ×235×120	10	1	Wall Mount	IP22