

## **AHD-SLP V2**

### **Searchlight Operation Panel**



- **Switching and panning**
- **Several panels cascable**
- **Uniform design of yacht device series**
- **Searchlights can be controlled on displays**

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## Introduction

Searchlights are a powerful tool for maneuvering at night. They are used for signaling and in an emergency, they aid in rescuing shipwrecked persons and finding objects.

The established design of Böning yacht products also applies to the searchlight operation panel AHD-SLP V2. The uniform design of our operation panels creates a harmonic appearance of the console on the bridge or flybridge.

The device is available in 3 designs.

## Operation

By pressing the 'Searchlight' button the searchlight is permanently switched on or off. When it is switched off, the 'Signal' button switches the searchlight on as long as the button is kept pressed.

The direction and elevation of the searchlight with slow or fast speed is controlled with four direction buttons. When two buttons for opposite directions are pressed simultaneously, the movement is stopped. By pressing for example 'up' and 'right' at the same time, the searchlight can additionally be panned diagonally.

The speed for the searchlight's horizontal and vertical movement is selected by pressing the 'Speed' button. The 'Speed' LEDs indicate the current speed for both horizontal and vertical searchlight movement. The LED of the 'Searchlight' and 'Signal' buttons is lit permanently when the searchlight is switched on.

Additionally, the search light can be operated with the visualization on the Panel PCs AHD 12XX and AHD 13XX.

## Technical Characteristics

The control unit AHD-SLP V2 has been optimized for the control of a searchlight of the type HR1012-24V (Art.-No. 10756) or HRL2070-24V (Art.-No. 20132). Please ask for compatibility with other manufacturers. The basic functionalities are searchlight movement and switching the lamp on and off. The searchlight can conveniently be controlled from different places on board (for example bridge and flybridge) by linking several AHD-SLP V2 panels in the CAN bus.

The 24 V DC power supply is used for the panel and for controlling the search light. The lamp of the searchlight is supplied with 24 V DC, its two motors for positioning with 12 V DC (according to specification for HR 1012-24V or HRL-2010-24V). The error detection at the control outputs for the searchlight prevents an overload of the operation panel and the searchlight. This does not only protect the panel but also the searchlight.

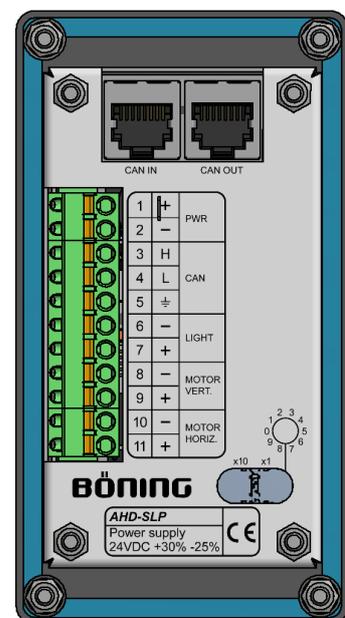
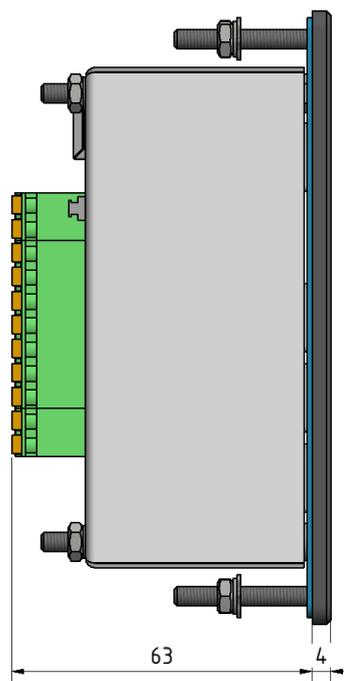
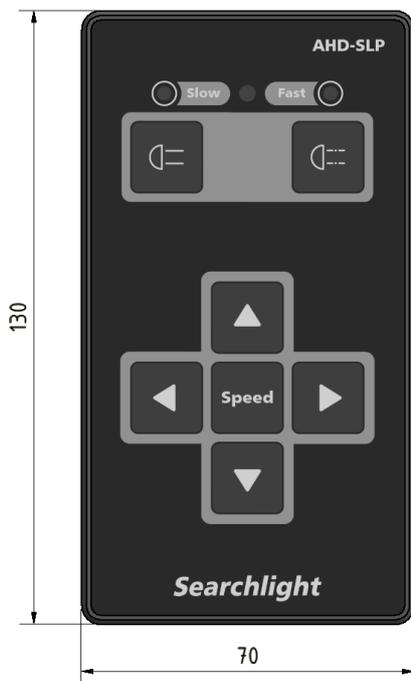
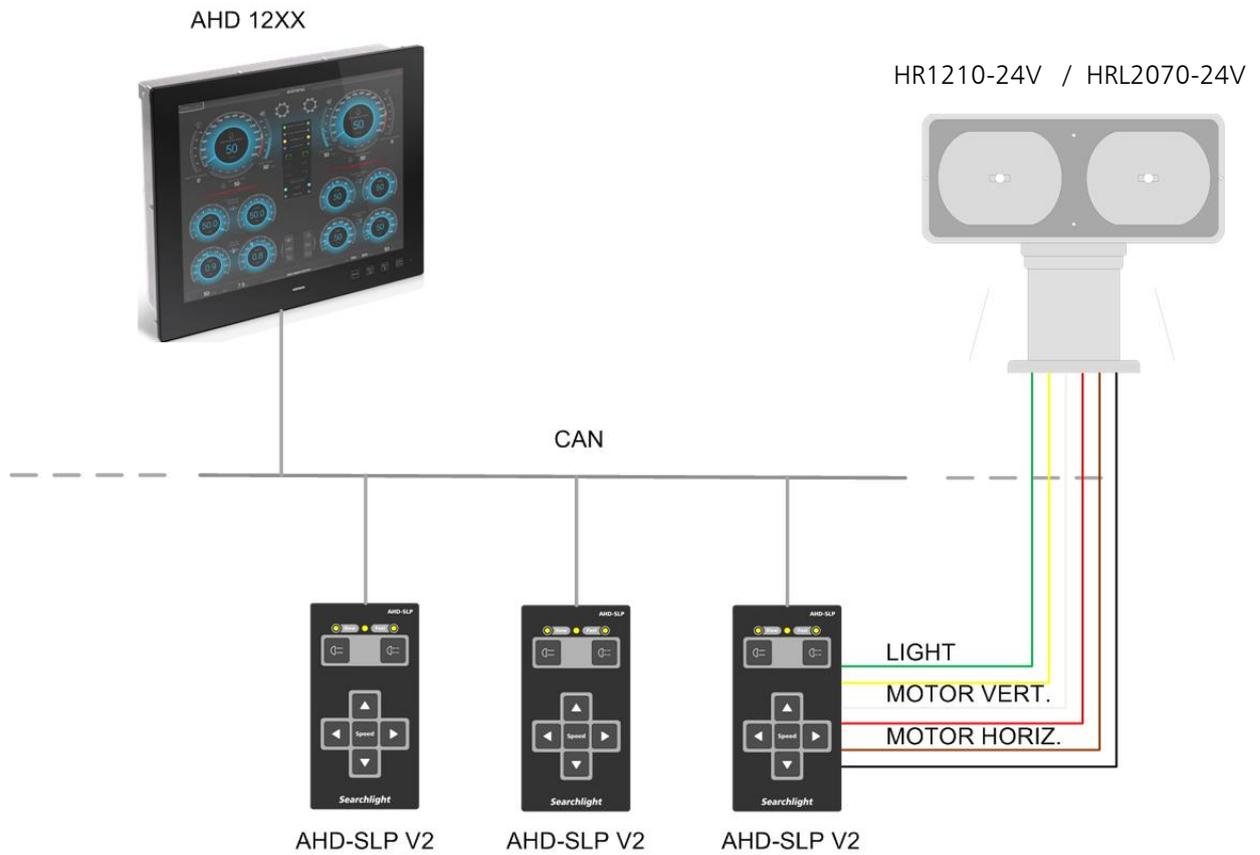
The panel is intended for flush-mounting and is equipped with a plug-in 11-pin terminal block for connection of:

- Power supply
- Searchlight with built-in motors
- CAN

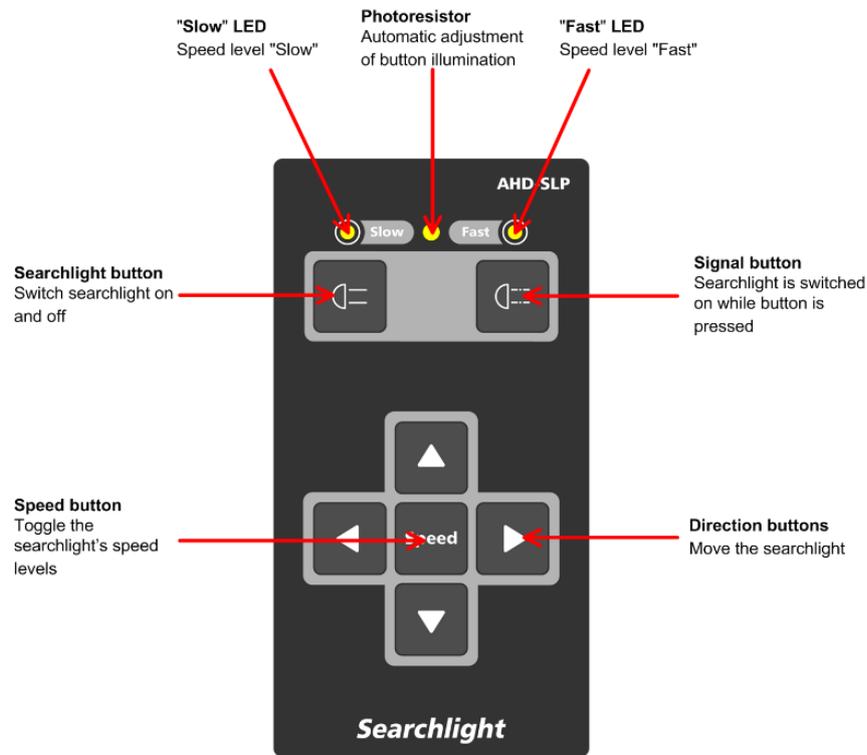
For linking multiple several panels and for control with the Panel PCs AHD 12XX and AHD 13XX CAN connections via RJ45 connectors and on the terminal strip are provided.

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## Connection Diagram, Dimensions, Connections



### Use of the Buttons



#### Operation Panel AHD SLP V2 for Searchlights

Power supply	24 V DC (+30% / -25%)
Quiescent current	150 mA
Ambient temperature	-10 °C...70 °C
Storage temperature	-30 °C...85 °C
Weight	Approx. 0.15 kg
Protection class	Front IP 67, rear IP 20
Dimensions	70 mm x 130 mm x 67 mm
Panel cutout	60 mm x 110 mm
Interfaces	1 x CAN (RJ45 and terminals)
Item number	18617

#### Halogen HR1012-24V Searchlight

Power supply	24 V DC (+30% / -25%)
Current consumption	5 A
Weight	Approx. 3.25 kg
Protection class	IP 56
Dimensions	230 mm x 200 mm x 210 mm
Lamp	2 x Halogen 55 W with reflector insert
Range	Up to 500 m, horizontal spread approx. 7°, vertical 5°
Positioning	360° with unlimited rotation, vertical 9° up, 17° down
Positioning speed for rotation	31°/s fast 20°/s slow
Positioning speed vertical	2.8°/s
Item number	10756

#### LED HRL2070-24V Searchlight

Power supply	24 V DC (+30% / -25%)
Current consumption	1,6 A
Weight	Approx. 4,2 kg
Protection class	IP 56
Dimensions	230 mm x 200 mm x 210 mm
Lamp	LED, max. 200.000 cd
Range	Up to 500 m, Spreading approx. 7°
Positioning	360° with unlimited rotation, vertical 9° up, 17° down
Positioning speed for rotation	30°/s fast 20°/s slow
Positioning speed vertical	Approx. 3,0°/s
Item number	20132