AHD-SLP V2 / AHD-SLP V2 J
Searchlight Operation Panel



- ***Switch and pan searchlights***
- ***Multiple control units can be combined***
- ***Various designs are available, matching the Böning device series, with either button or joystick controls***
- ***Remote control via touchscreen visualization on a panel PC***

BÖNING
SHIP AUTOMATION

General information

Searchlights are used for orientation, for giving light signals and can assist in rescuing shipwrecked persons or locating wanted objects in an emergency.

The proven design of the Böning product series for the yachting sector is also featured in the AHD-SLP V2 searchlight panel. It is available in different variants. The searchlight can be controlled using buttons or a joystick, depending on the model.

Operation

AHD-SLP V2 / AHD-SLP V2 J has a signal button for sending light signals or can be switched on and off permanently using the searchlight button. Depending on the variant, the searchlight is positioned with four direction buttons or a joystick. Panning is possible in any direction, even diagonally.

The speed button is used to change the movement speed of the searchlight. If only one speed button is available, the current speed mode is displayed with LEDs.

Via the integrated CAN bus, the searchlight can also be operated in the touchscreen visualization of an external panel PC (for example AHD 12XX or AHD 13XX).

Function

The AHD-SLP V2 / AHD-SLP V2 J control units have been optimized for controlling the HR1012-24V (item no. 10756) or HRL2070-24V (item no. 20132) searchlights. Please enquire about compatibility with alternative types. The function includes the alignment of the searchlight via two motor control outputs (horizontal and vertical) as well as switching the lamp on and off. The searchlight can be easily controlled from several locations on the ship, for example from the bridge or the flybridge. Additional CAN connections at RJ45 sockets are available for easy network connection of several devices or for remote control on panel PCs over CAN.

The 24 V DC operating voltage is used for the common supply of AHD-SLP V2 and of the searchlight lamp; the motors for aligning the lamp position are controlled with max. 12 V in accordance with the manufacturer's specifications. The integrated fault detection prevents the control unit and searchlight from being overloaded.

Connection

The AHD-SLP V2 / AHD-SLP V2 J control units are designed for console mounting and feature a pluggable 11-pin terminal block for connecting:

- 24 V DC power supply
- Searchlight 24 V DC
- Horizontal motor (analog output max. 12 V DC)
- Vertical motor (analog output max.12 V DC)
- CAN (Hi, Lo, Shield)

Versions



Classic design

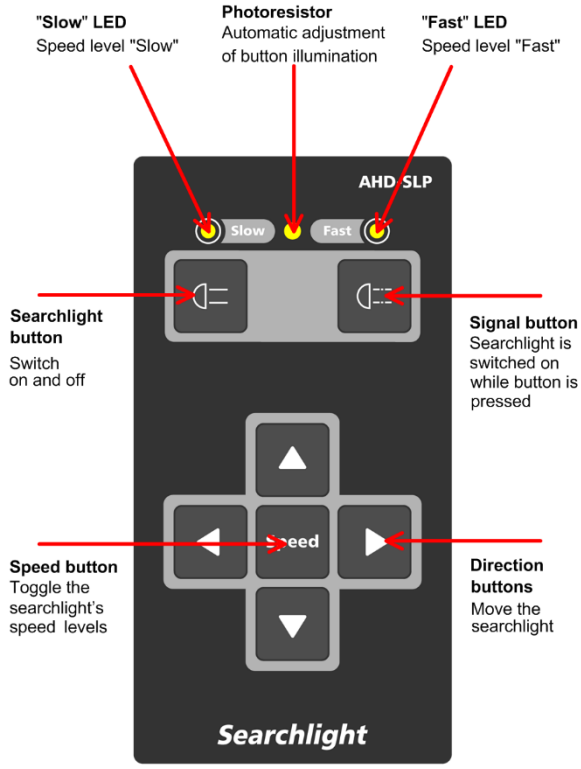


2 x Speed button

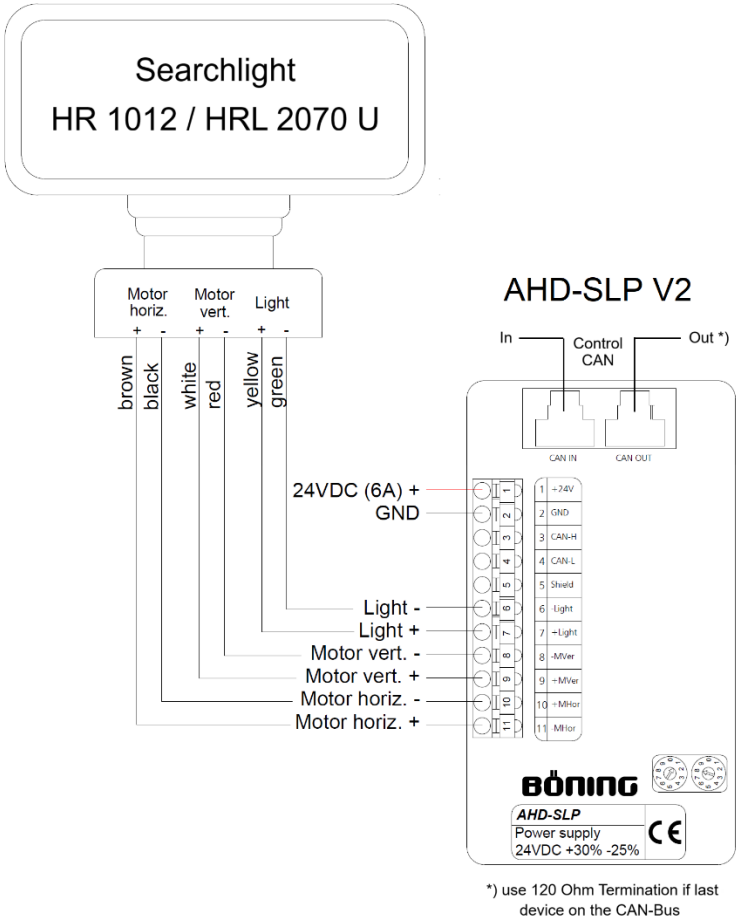


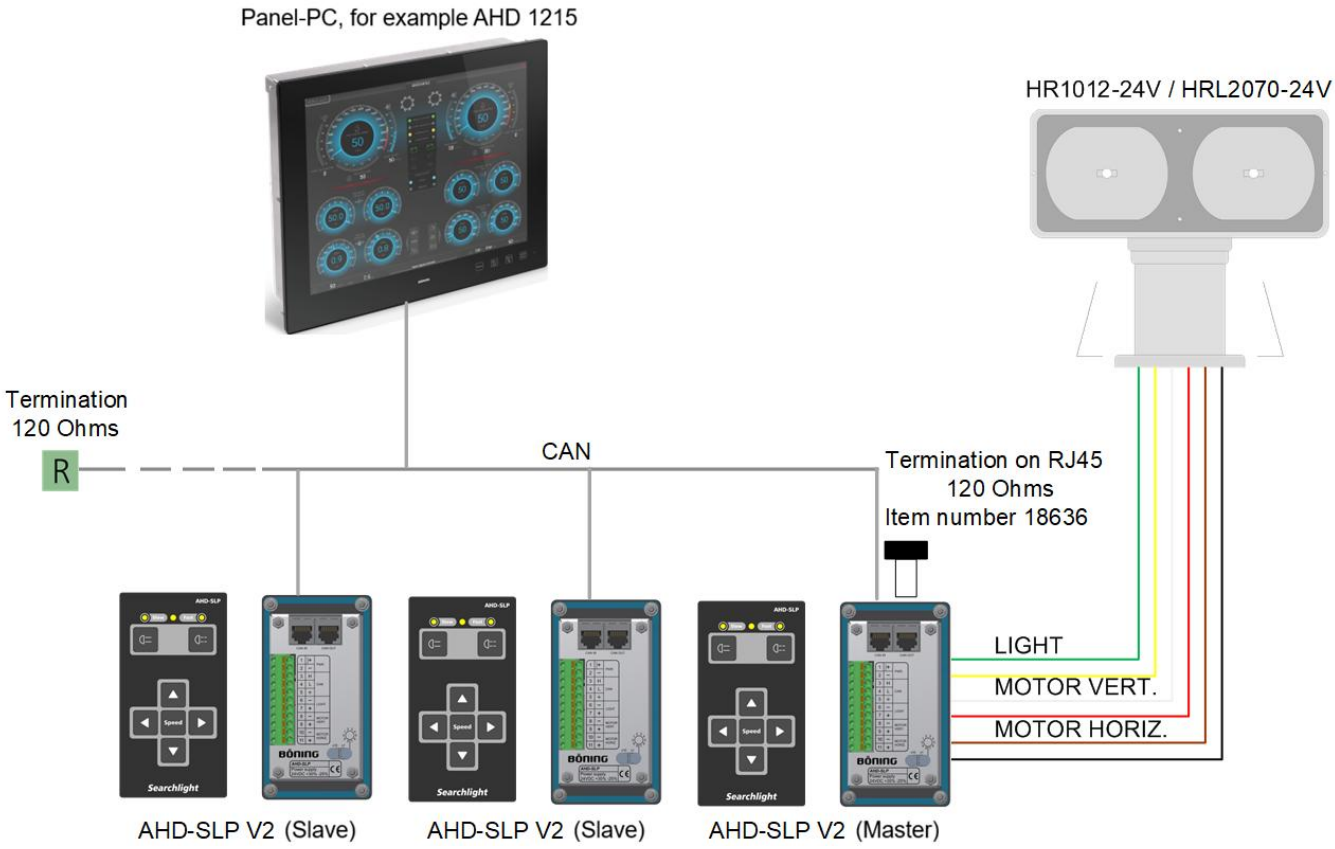
Joystick

Operating elements and connection diagram



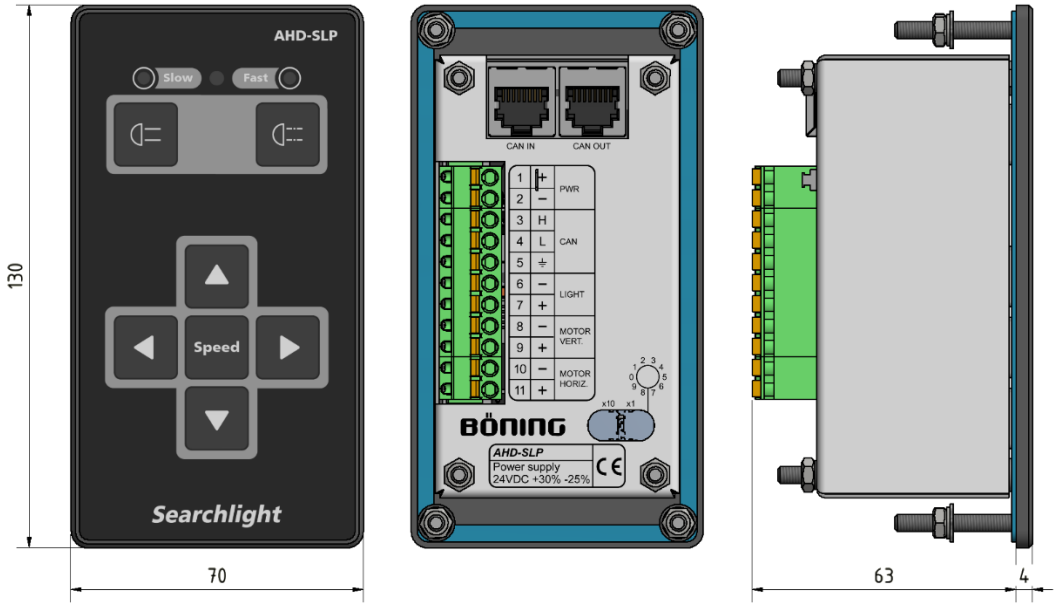
Classic design (1 x Speed button)





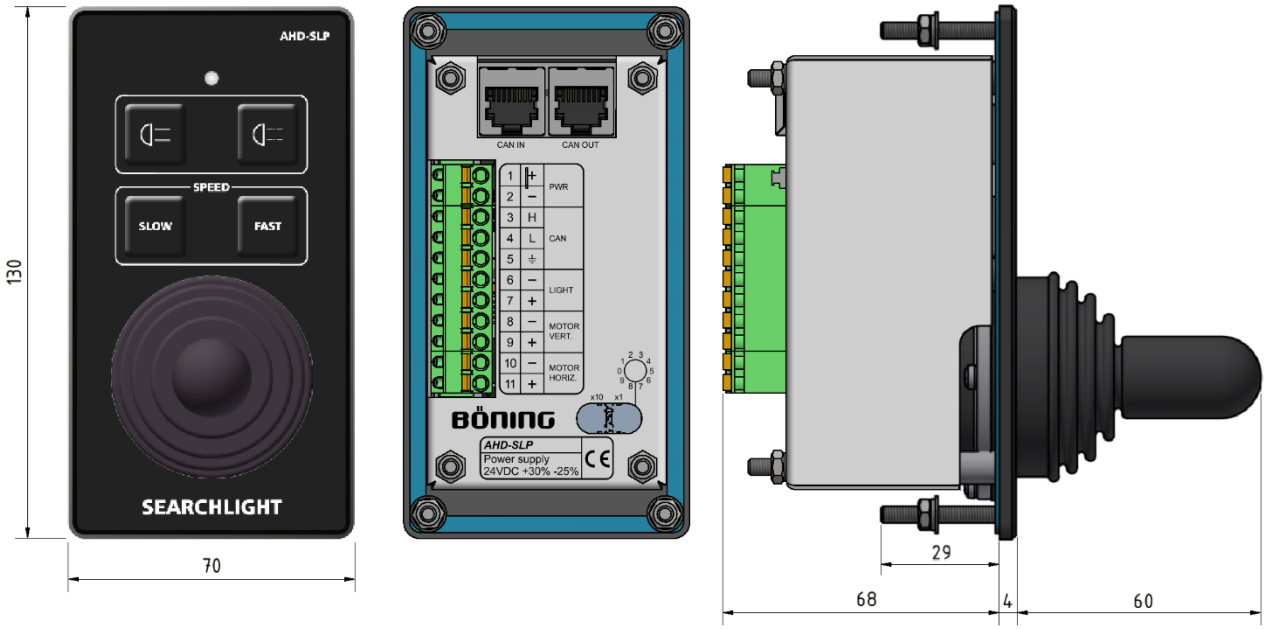
Dimensioned drawing / Connections

AHD-SLP V2



Panel cut-out = 60 x 110 mm

AHD-SLP V2 J



Panel cut-out = 60 x 110 mm

Technical Data

Operation Panel AHD SLP V2 with Key-Control

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 56, 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)
Control outputs	2 x analog max. 12 V DC
Approvals	DNV, LR
Item number	
AHD-SLP V2 "classic"	18617
AHD-SLP V2, 2x Speed button	18617V2

Operation Panel AHD SLP V2 with Joystick-Control

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 56, rear IP 20
Dimensions	70 mm x 130 mm x 132 mm
Panel cutout	60 mm x 110 mm
Interfaces	1 x CAN (RJ45 and terminals)
Control outputs	2 x analog max. 12 V DC
Approvals	DNV, LR
Item number	
AHD-SLP V2 J with joystick	22624

LED HR2070-24V 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	Max. 500 m, spreading approx. 7°
Positioning	360° with unlimited rotation, vertical 9° up, 17° down
Positioning speed horizontal	30°/s fast 20°/s slow
Positioning speed vertical	approx. 3,0°/s
Connection	includes round cable, 6-pin, approx. 4.8 m, connected on the lamp side
Item number	20132

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 horizontal	31°/s fast 20°/s slow
Positioning speed vertical	2,8°/s
Connection	includes round cable, 6-pin, approx. 4.8 m, connected on the lamp side
Item number	10756