

AHD-SLP B / AHD-SLP BJ

Searchlight Operation Panel with buttons or joystick



AHD-SL Xenon



AHD-SLP BJ



AHD-SLP B

- ***Control unit for high-power searchlight (150W Xenon)***
- ***Optimized design with pan, tilt and focus function***
- ***Comfortable control via joystick or buttons***
- ***Multiple control units can be combined, remote control also possible via Böning Panel-PCs***
- ***Unified design of the Böning yacht equipment series***

General

Searchlights are used to emit light signals and can assist in rescuing shipwrecked persons or locating wanted objects in an emergency. They are also essential for maneuvering at night.

For the high-quality searchlight AHD-SL Xenon (HRX-150), Böning offers the specially developed control unit AHD-SLP B with buttons or AHD-SLP BJ with joystick. Both versions fit into the proven design of the Böning product series for yachts.

Function

The design for the control unit AHD-SLP B / AHD-SLP BJ has been optimized for controlling the searchlight AHD-SL Xenon (HRX-150). All functions such as tilting, swiveling, and focusing (close-up or distant view) are directly accessible via control buttons or joystick. By alternately pushing the integrated on-off button, the lamp is switched on or off at once.

The active lamp state is signaled to the operating unit via a feedback signal and indicated there by an illuminated button. A photo sensor for automatic dimming on bridges is also integrated.

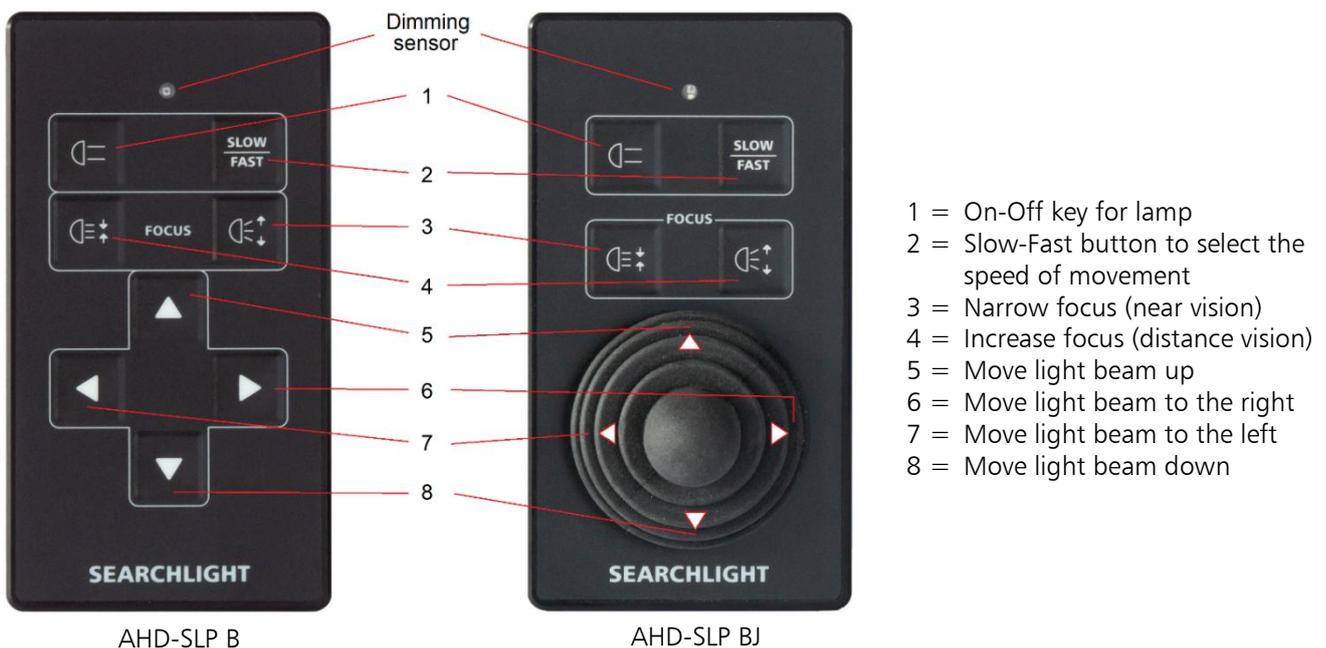
CAN-Bus

By networking several control units via CAN bus, the searchlight can be conveniently controlled from different locations on the ship, for example bridge and flybridge. In addition, the CAN bus can also be connected to Böning Panel PCs of type AHD 12XX or AHD 13XX. Thus, with appropriate configuration, the operation can alternatively be done using the touch screen of the PC.

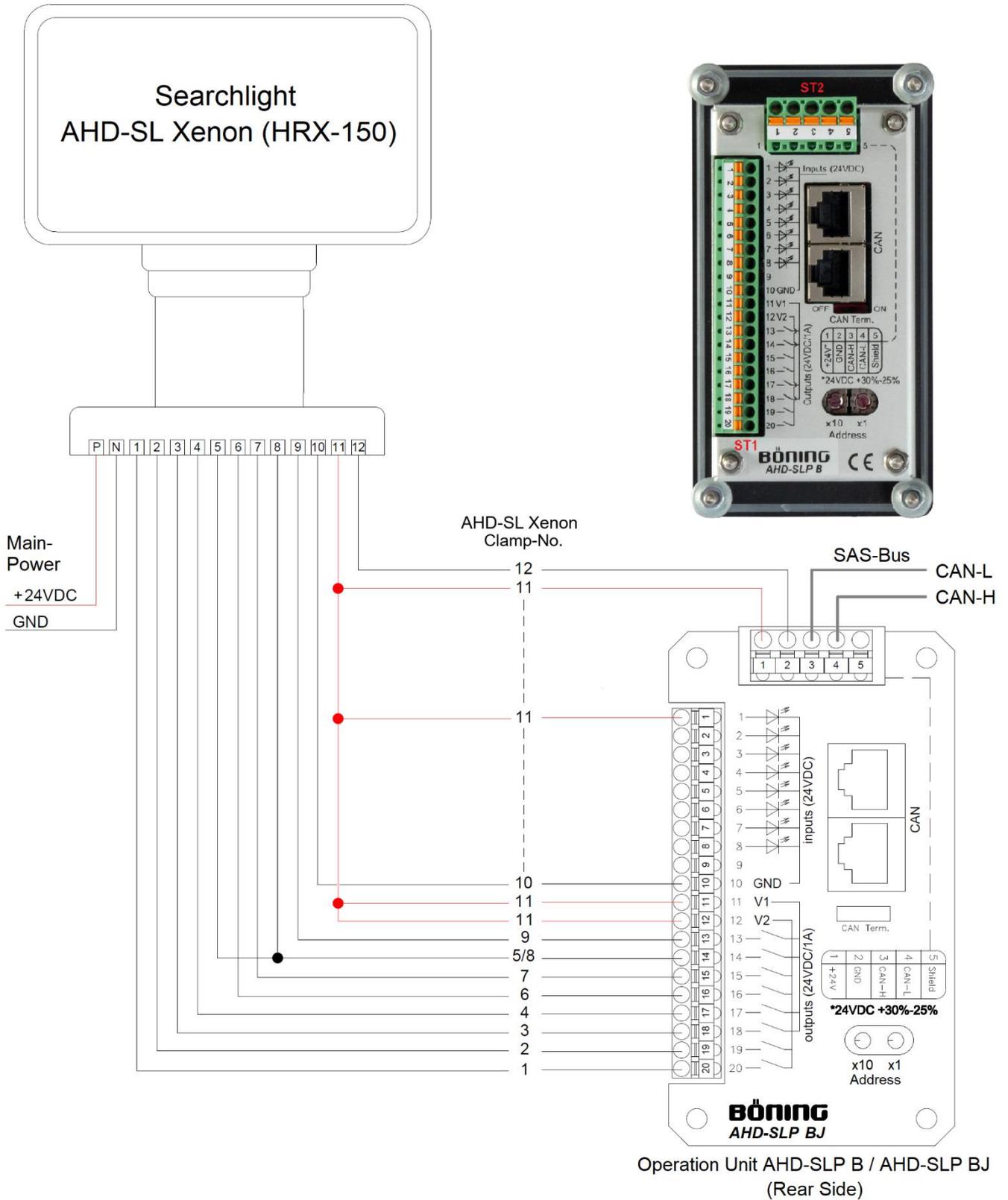
Connection and supply

The control unit is designed for panel mounting, the connection is made via two pluggable terminal strips (20-pole and 5-pole). The CAN bus is accessible via terminal or alternatively via RJ45 sockets. The supply (24 V DC) is provided via a common feed point for the lamp and control unit.

Operation



Connection diagram



Connection terminals

Signal	AHD-SL Xenon	AHD-SLP-BJ		Function
		ST-1 (20pol)	ST-2 (5pol)	
Wide	1	20		Set focus to distance vision
Narrow	2	19		Set focus to near vision
Down	3	18		Move light beam down
Up	4	17		Move light beam up
H.Speed	5	14		High-speed mode, in combination with horizontal moving (Right, Left)
Right	6	16		Move light beam to the right
Left	7	15		Move light beam to the left
H.Speed	8	14		Activate pin 5 simultaneously with HRX-150
Power	9	13		Switch on lamp
LED	10	10		Lamp Feedback (minus signal)
Positive	11	1,11,12	1	Power Out (+24V)
Ground	12		2	0V (ground)

24V DC power supply via connection "P" and "N" of the searchlight

Technical data

Operating unit AHD-SLP B with pushbutton

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
Inputs	8 x optocoupler
Outputs	8 x relay (30VDC / 0,5A)
Interfaces	1 x CAN (RJ45 and Terminals)
Item number	22627

Operating unit AHD-SLP BJ with joystick

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. 0.3 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
Inputs	8 x optocoupler
Outputs	8 x relay (30VDC / 0,5A)
Interfaces	1 x CAN (RJ45 and Terminals)
Item number	22628

Searchlight AHD-SL Xenon (HRX-150)

Power supply	24 V DC (+30% / -25%)
Current consumption	8,5 A
Weight	24 kg
Protection class	IP 56 (Aluminum housing sea water resistant)
Outer dimensions (WxHxD)	240x428x375 mm
Flange diameter	280 mm
Lamp	Xenon, 150W max. 6.000.000 cd
Range	up to 500 m, spread = 1°
Positioning	360° with endless rotation, vertically 18° up, 30° down
Positioning speed for rotation	27°/s „fast“ 11°/s „slow“
Positioning speed vertical	ca. 7,5°/s
Item number	20789