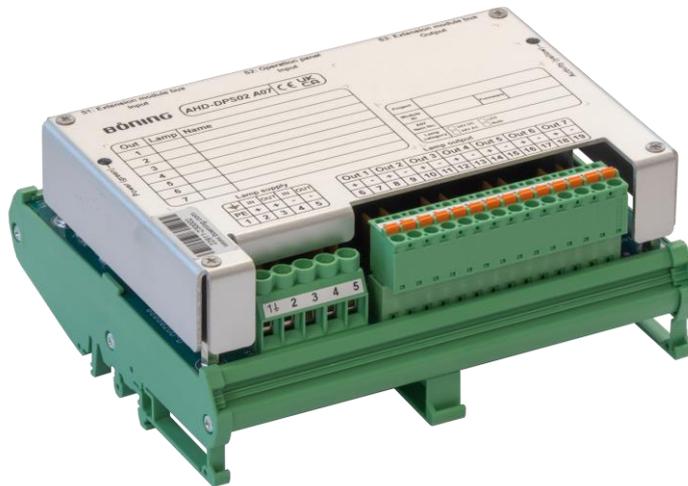


AHD-DPS02 A07 Expansion Module Position and Signal Lights Control and Monitoring



- ***AHD-DPS02 A07 expands the Böning AHD-DPS02 system and connects directly to the existing AHD-DPS02 G14 base module***
- ***AHD-DPS02 A07 has 7 additional lamp circuits for controlling and monitoring position and signal lights***
- ***Each lamp circuit is individually fused; in the event of a short circuit or wire break an alarm is triggered***
- ***Power supply via basic module AHD-DPS 02 G14, permanently monitored main and emergency power supply***
- ***In the event of an electronics failure, the lamp switching function remains fully operational via the conventional control units AHD-DPS02 BS / B14...42 or emergency control AHD-DPS02 E07***
- ***Storage of operating time and switching cycles for each lamp circuit with notification when the lamp service life is reached (via basic module AHD-DPS02 G14)***
- ***Versions available for 115 VAC or 230 VAC and 24 VDC***
- ***Serial direct connection for control units AHD-DPS02 BS / B14.. .42 or emergency control AHD-DPS02 E14 via ribbon cable***
- ***Module housing for installation on standard mounting rails in desks, consoles, switchboards, or switch boxes***
- ***Approvals: ABS, BV, CRS, DNV, LR, PRS, RINA***

Description

The AHD-DPS02 system is used to control and monitor position and signal lights on ships. The AHD-DPS02 A07 expansion module extends the system with 7 additional lamp circuits working with the existing AHD-DPS02-G14 basic module. It has identical safety circuits and can be used as a classified system:

- Dual power supply for main and emergency power with separate voltage monitoring (in the AHD-DPS02 G14 basic module)
- All lamp circuits with 2-pole shutdown and integrated overload protection
- Monitoring of all lamp circuits, alarm in case of short circuit or wire break.
- Internal direct connection for all position and signal lights, so that they can still be controlled even if the electronics fail.
- Operating hours monitoring for LED lanterns with early replacement warning.

Up to 4 AHD-DPS02 A07 expansion modules can be combined, allowing the system to be easily adapted to specific requirements. Seven versions are available to accommodate different lamp voltages (24VDC, 115VAC, or 230VAC) and lamp types (filament or LED). A complete system consists of:

- AHD-DPS02 G14 base module with 14 integrated lamp circuits
- up to 4 AHD-DPS02 A07 expansion modules (each with 7 lamp circuits)
- AHD-DPS02 BS / B14...42 control unit (various versions)
- Optional switch units for basic and expansion module (emergency control)

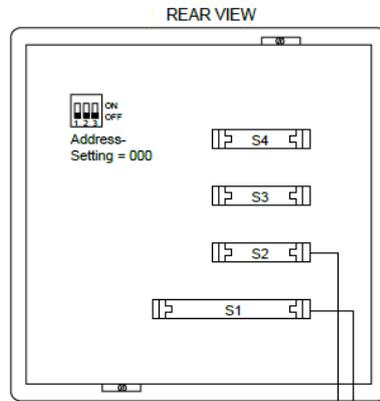
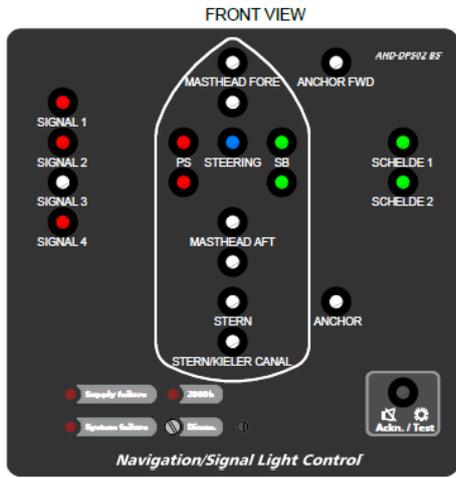
The lamps are controlled as standard via separate Böning control units of type AHD-DPS02 BS / B14...42. The CAN bus integrated in the basic module allows alternative lamp control via the touchscreen of a Böning displays or PCs from the AHD series.

When using remote control, we recommend using the optional switch unit AHD-DPS02 E07. This is connected directly to the expansion module AHD-DPS02 A07 and serves as an emergency control in the event of a communication failure.

The AHD-DPS02 A07 module is supplied in a profile housing for DIN rail mounting and is connected directly to the AHD-DPS02 G14 base module via a ribbon cable.

Application with AHD-DPS02 A07

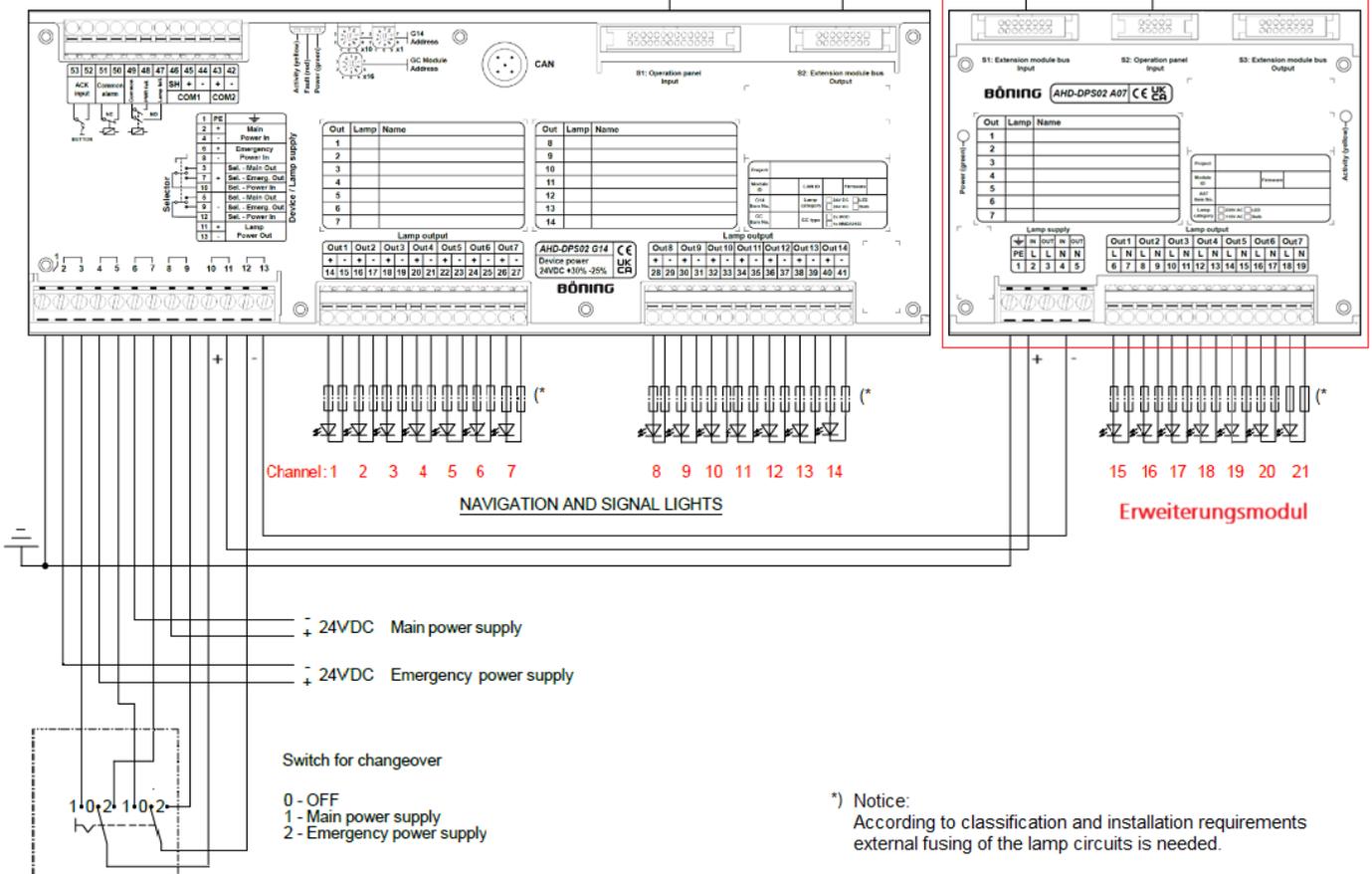
Configuration with one extension module and 21 lamp circuits



2m, 26-pole ribbon cable

0.4m, 16-pole ribbon cable

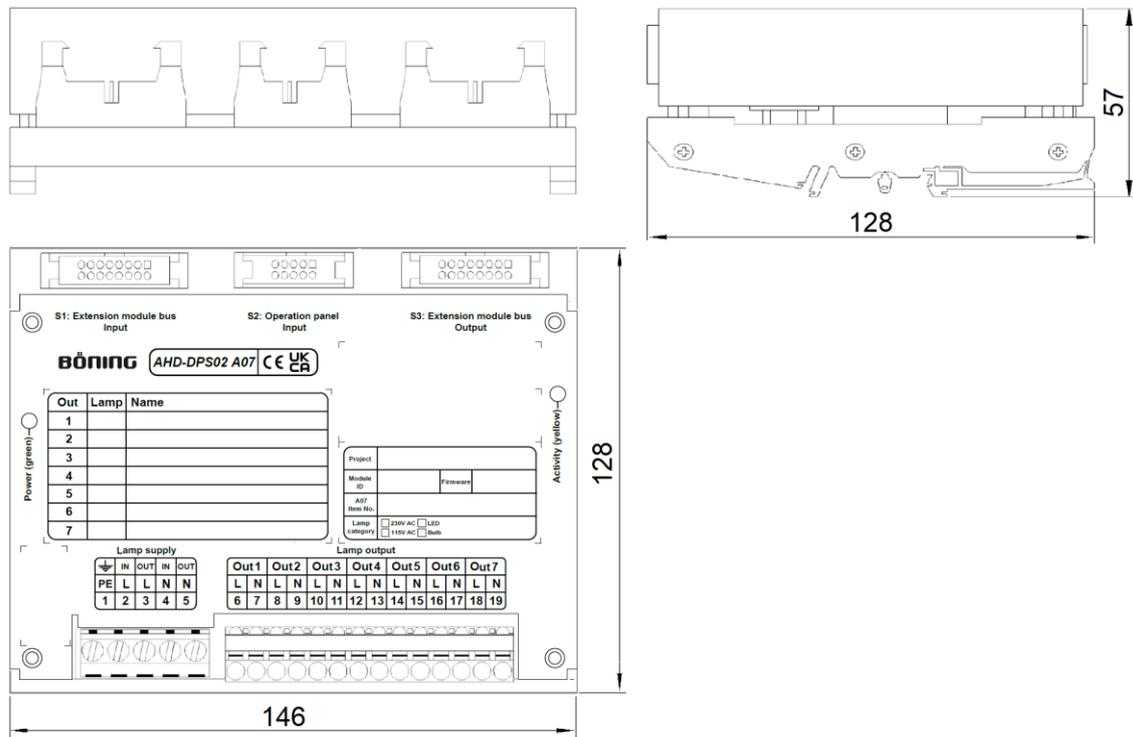
2m, 10-pole ribbon cable



AHD-DPS02 A07

Navigation light monitoring – expansion module with 7 lamp channels

7 versions for 24VDC, 115VAC, 230VAC (filament or LED lamp) and 24VAC (filament lamp)



Technical data

AHD-DPS02 A07 (V2) Expansion Module

Power supply (Electronic unit)	24 V DC (+30% / -25%)
Current consumption	50...200 mA (24 VDC)
Lamp voltage (depending on model)	24 V DC (+30% / -25%) 24 V AC / 47...65 Hz 115 V AC / 47...65 Hz 230 V AC / 47...65 Hz
Operating temperature	-25 °C...70 °C
Storage temperature	-30 °C...85 °C
Weight	0.98 kg
Protection class	IP 20
External dimensions	146 x 128 x 57 mm
Inputs/outputs	7x lamp output, 2-pole switched and fused
Interfaces	3x internal communication bus (control unit, to the base module, to the next modular unit)
Installation	On TS 32 and TS 35 rail
Approvals	ABS, BV, CRS, DNV, LR, PRS, RINA

Item no.	Voltage / Lamp type
22910	24 VDC bulb
22908	24 V AC bulb
22906	115 VAC bulb
22904	230 VAC bulb
22911	24 VDC LED
22909	115 VAC LED
22907	230 VAC LED