AHD-GAP F
General alarm control unit with fire alarm function

- ***Operation of the horn on the bridge in the event of an emergency***
- ***Pre-programmed signals***
  - ***Abandon ship***
  - ***General alarm***
  - ***Fire alarm***
- ***Manual signal sequences possible by pressing a button***
- ***Integrated priority circuitry***
- ***Dual feed for main and emergency power supply***

The operating unit AHD-GAP F is used to control acoustic and optical ship signal transmitters in emergency situations. In addition to manual operation, the common signals for "abandon ship", "general alarm" and "fire alarm" are already pre-programmed and can be emitted in selectable intervals. A fixed signal sequence can be started with the first key press, a second key press deactivates the previous signal. The program logic ensures that the "abandon ship" signal is always given the highest priority and overrides all other signals.

When the manual signal generator is activated, currently running signal sequences pause for 20 seconds and then resume. Generally, manual signals can also be issued if the electronics malfunction.

General- The general and fire alarm can also be activated via the remote inputs. The signal for this can come, for example, from the Böning Watch Alarm Panel AHD-WAOP (BNWAS). The available outputs can also be used to control external devices that trigger an alarm. Or an operation that is already in progress (e.g. loudspeaker announcement) is interrupted.

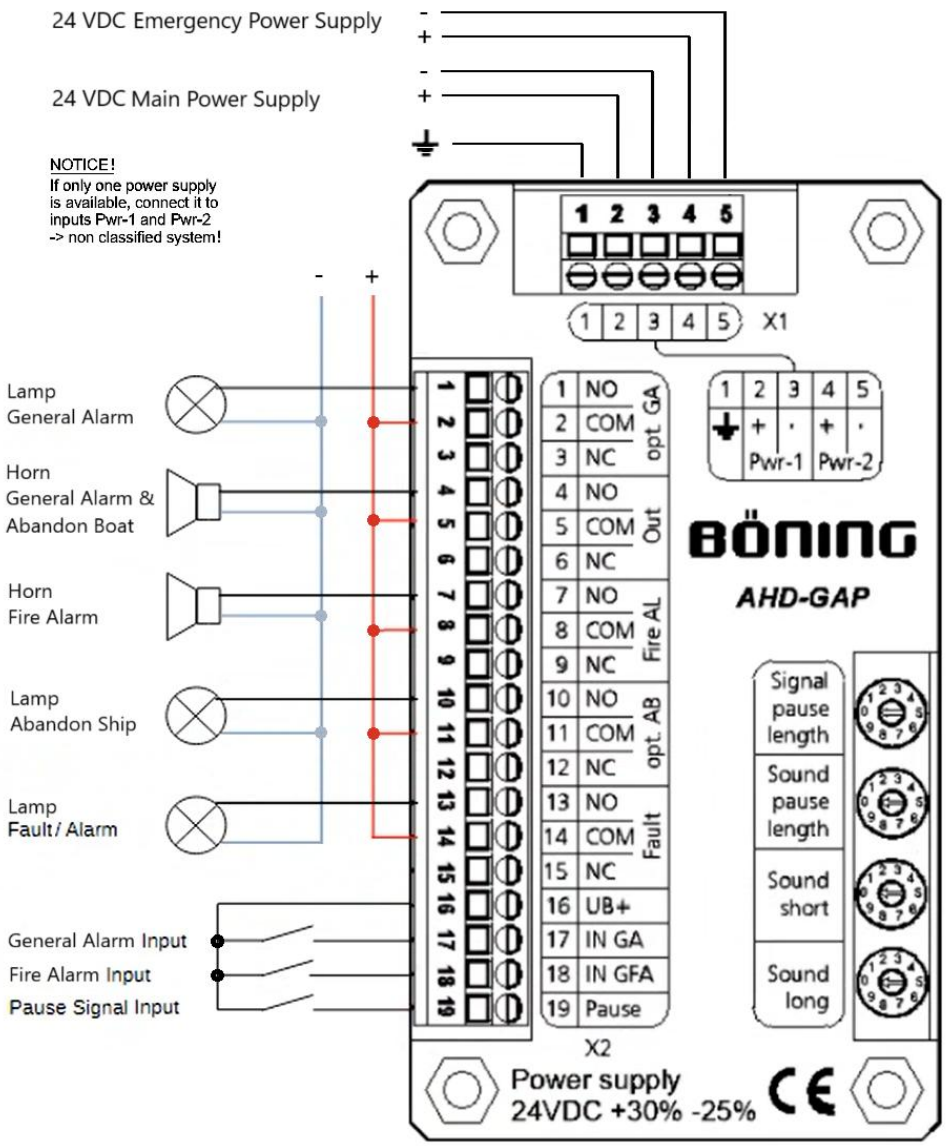
The rotary switches on the rear allow the internal time intervals to be individually adjusted directly on the device. This applies to signal pauses between individual tones and a signal sequence, as well as to the durations of short and long signals.

The device is equipped with a key lock to prevent unintentional operation. Additional special functions for coupling the "Horn" and "Fire Alarm" outputs or for adjusting the optical signal outputs expand the flexibility of the AHD-GAP F for almost any application.

AHD-GAP F is designed for installation in consoles on bridges or secondary control stands. All operating elements are illuminated without glare and automatically dimmed for nighttime operation.

BÖNING
SHIP AUTOMATION

Connection Diagram



AB = "Abandon ship" Alarm (Optical signal may be switched to continuous signal)

GA = General Alarm (Optical signal may be switched to continuous signal)

Fire AL = Fire Alarm (Horn signal and optical signal are both always continuous signals)

Terminal Assignment

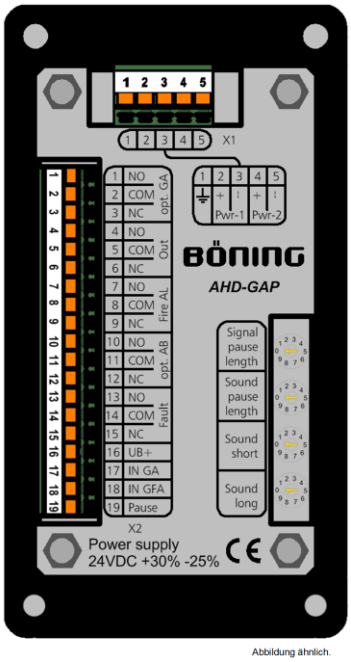


Abbildung ähnlich.

Note:

NO = Normally Open, contact is closed when activated.

NC = Normally Closed, contact is opened when activated.

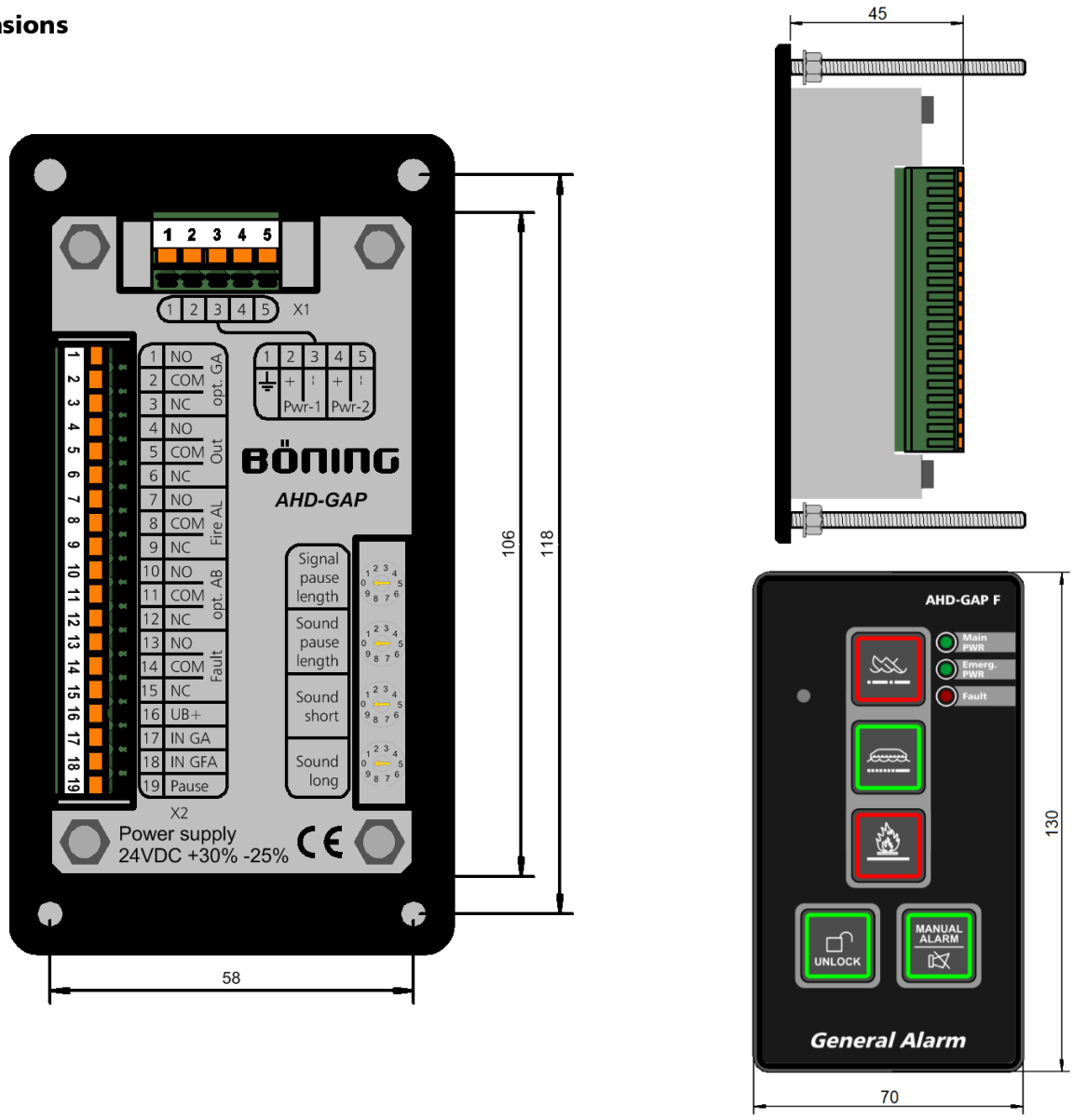
GA = General Alarm

GFA = Fire Alarm

AB = Abandon Boat
(Leave the ship)

Terminal	Function
Terminal Strip X1	**Power Supply**
1	Earthground
2	VCC Main supply (24 V DC)
3	GND Main supply
4	VCC Emergency supply (24 V DC)
5	GND Emergency supply
Terminal Strip X2	**Outputs**
1	Lamp GA NO (General Alarm)
2	Lamp GA GND (General Alarm)
3	Lamp GA NC (General Alarm)
4	Horn Out NO (Abandon Boat)
5	Horn GND (Abandon Boat)
6	Horn NC (Abandon Boat)
7	FA NO (Fire Alarm)
8	FA GND (Fire Alarm)
9	FA NC (Fire Alarm)
10	Lamp AB NO (Abandon Boat)
11	Lamp AB GND (Abandon Boat)
12	Lamp AB NC (Abandon Boat)
13	Status-Relay NO (Fault Alarm)
14	Status-Relay GND (Fault Alarm)
15	Status-Relay NC (Fault Alarm)
Terminal Strip X2	**Inputs**
16	UB+
17	IN GA (General Alarm)
18	IN GFA (Fire Alarm)
19	Pause Signal

Dimensions



Technical Data

Dimensions W x H x D	70 x 130 x 45 mm
Pultauschnitt	60 x 110 mm
Weight	Ca. 0,3 kg
Operating temperature	-25°C … +70°C
Storage temperature	-50°C … +85°C
Protection class	IP 44, front side IP 20, rear side
Power supply	24 V DC (+30%/-25%)
Current consumption	Max. 100 mA
Required distance to magnetic compass	Steering compass: 0.30 m Standard compass: 0.40 m
Inputs	General alarm Fire alarm Pause
Outputs	5 x Relay, potential-free, max. 0,5 A 4 x control of acoustic and optical signaling devices 1 x failure status
Programmed signal sequences	General Alarm (7 x short, 1 x long) Abandon Ship (short, long, short, long) Fire alarm (steady tone)
Approvals	ABS, CRS, LR, RS
Installation	Panel mounting
Item number	14002