AHD-DC RS
Display Control Unit with Rotary Push Drive

- *Remote Control for Böning Color Displays (Panel Computer and Monitors of the AHD 11XX and AHD 12XX, beginning with Model Year 2012) as well as devices by other manufacturers*

- *Multi control for displays*

- *Data communication via CAN bus*

- *Comfortable control of the display menus and visualization with lit and ergonomic rotate-shift rotary switch*

- *Robust and elegant design for sophisticated demands*

- *Compact unit for installation in panels, consoles or arm rests*

The Control Unit for Color Displays AHD-DC RS includes all necessary functions for operating Böning color displays, in the version for panel computers with integrated PC (AHD 12XX and AHD 13XX series) as well as for monitors (AHD 11XX series). With the control unit, all visualization pages, for instance, can be opened in the display, and the control elements present at the time can be activated. Further, devices by other manufacturers can also be controlled with the control unit (in conjunction with an AHD-CUC). Moreover, it also assumes the functions of the Control Unit AHD-DC, so that the AHD-DC RS can also be used to select the display, which reduces the number of installed devices even more.

The Control Unit for Color Displays AHD-DC RS is equipped with a plug connector for the CAN bus and a 5-pin terminal strip (24 V DC power supply as well as an alternate connection for the CAN bus).

The control unit includes an acknowledge key for acoustic and optical alarms as well as a SOURCE ON/OFF button for switching the displays on and off. Quick access to the display menu via a press of the button is also available.

As with all other display control panels, the buttons are dimmed automatically with the display.

The control CAN bus is separate from the other CAN bus systems (e.g. SAS-CAN for the ship alarm and monitoring system or engine CAN bus) to achieve problem-free data communication.

For safety reasons, every control panel connected to the control CAN has a separate 24 V DC power supply.

Böning
Automationstechnologie
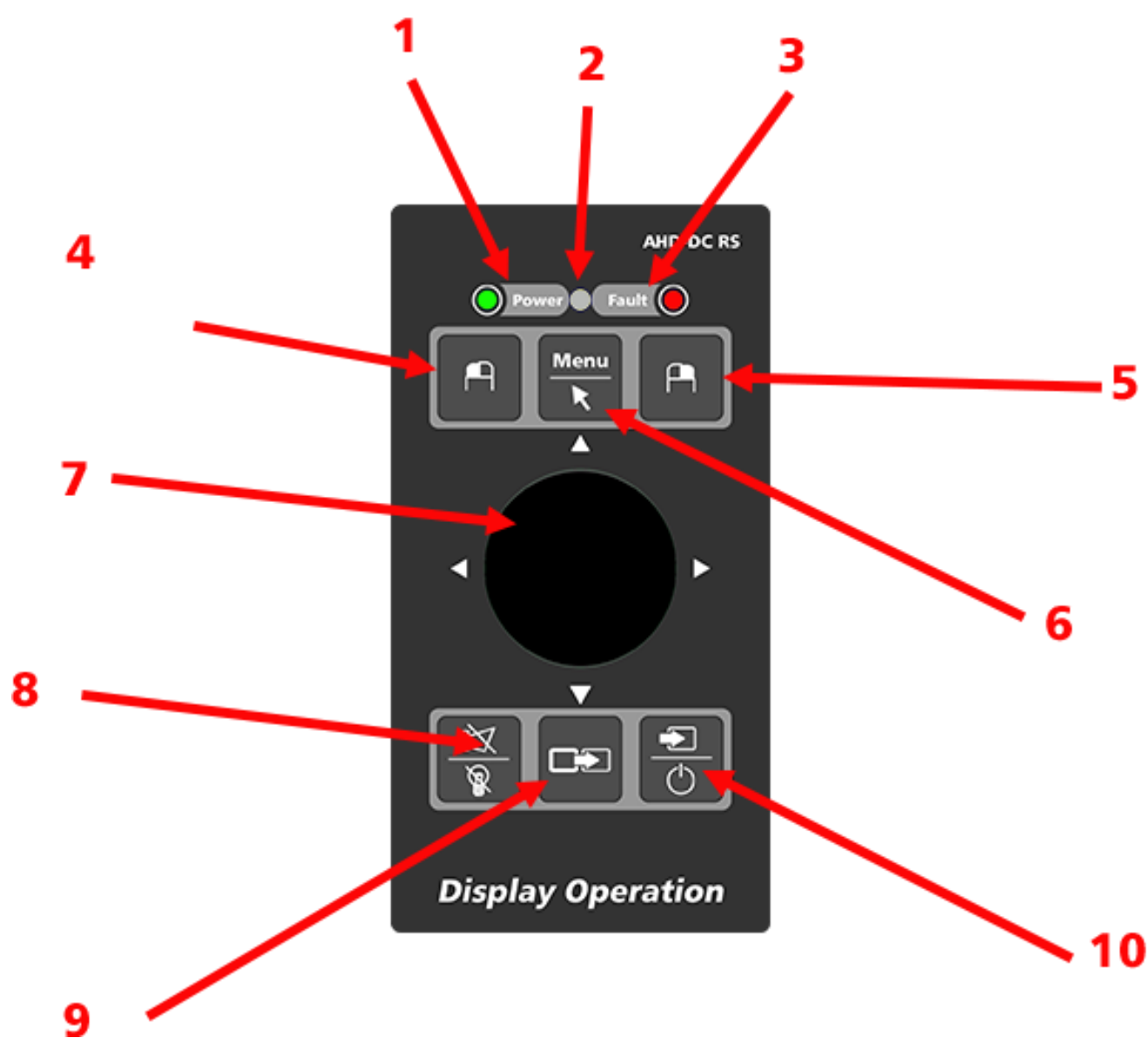
Control Elements of the AHD-DC RS

It is possible to operate the visualizations used on the Böning displays as well as the functions of devices by other manufacturers (when used with an AHD-CUC) with the Control Unit for Color Displays AHD-DC RS.
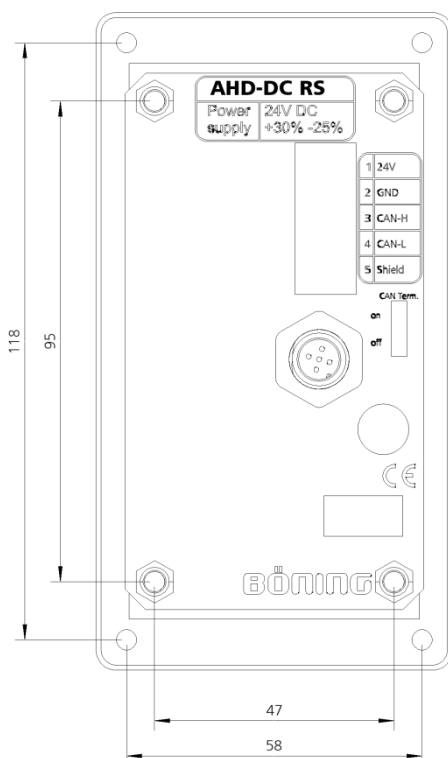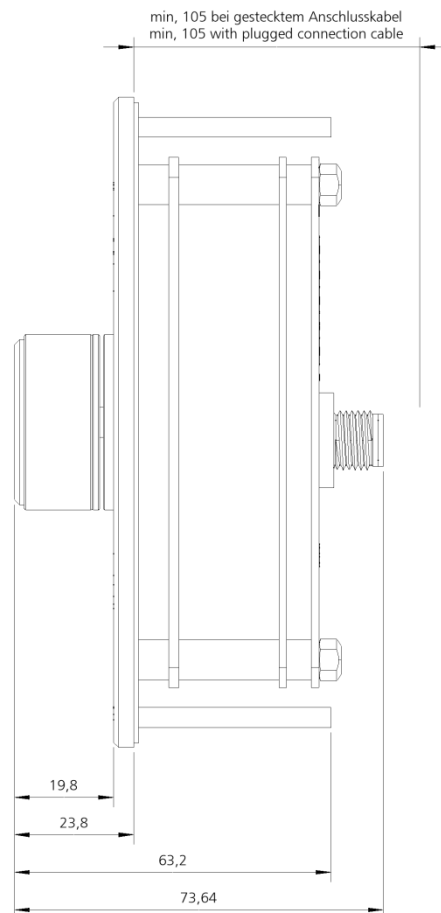
Control Elements (Standard)

No.	Function
1	Power LED
2	Light sensor
3	Fault LED
4	Key press left
5	Key press right
6	Short press: Direct selection of the main menu on the active PC. Long press: Switch to mouse mode (the key is lit). Another long key press switches back to the menu selection mode.
7	Rotary push drive with shift function. Rotate: Change to the next/previous GUI element. Tilt: Change to the next GUI element in the respective direction
8	Alarm acknowledgment/optical
9	Select the next PC. The selection begins with the device that has the lowest ID, moving to the next one; if the highest ID has been reached, it switches back to the lowest.
10	Short key press: Switch the PC to an external video source for the active display. Long key press: Switches the active display off.

Control elements for devices by other manufacturers (depending on the configuration of the AHD-CUC). Here is an example for the Furuno TZ Touch Blackbox.

No.	Function
4	Key press left
5	Center Vessel – Centers the ship when in map view.
6	Short key press: Change to menu Long key press: Switch to mouse mode (the key is lit). Another long key press switches back to the menu selection mode.
7	Key press: Opens the context menus (opens the respective sub-menus of the active page) Rotate: Zoom in (right), zoom out (left) in the map/radar view or change to next/previous GUI element (in the menu view). Tilt: Moves the map (right/left/up/down) in the map view or controls the mouse pointer when in mouse mode.
8	During incoming alarms, the active display switches to the visualization for alarm acknowledgment. If no alarms are pending, pressing this key closes the open sub-menu.
9	Select the next PC. The selection begins with the device that has the lowest ID moving to the next one; if the highest ID has been reached, it switches back to the lowest.
10	Short key press: Switch to the next video source for the active display. Long key press: Switches the active display off.

Technical Information:

AHD-DC RS

Power | Fault

Menu

Display Operation

70

min, 105 bei gestecktem Anschlusskabel
min, 105 with plugged connection cable

19,8

23,8

63,2

73,64

AHD-DC RS

| Power supply | 24V DC +30% -25% |

1	24V
2	GND
3	CAN-H
4	CAN-L
5	Shield

CAN Term.
on
off

118

95

47

58

Technical Data:

• Mechanical Data:

Dimensions, W x H x D:	70 x 130 x 86 mm (ger.)
Weight:	appr. 0.3 kg

• Environmental Data:

Operating Temperature:	-30 °C … +70 °C
Storage Temperature:	-50 °C … +85 °C
Protection Class:	IP 44 (frontside) IP 20 (rear)

• Electrical Data:

Power Supply:	24 V DC (+30% -25%)
Current Consumption, max.:	Appr. 40 mA (24 V DC)

• Ports:

1x CAN	Data communication with displays on control CAN
5-pin terminal strip	Connection for the 24 V DC power supply Alternate connection for the CAN bus