RINA

TYPE APPROVAL CERTIFICATE
No. **ELE207024XG**

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

Description	**Alarm, monitoring and control system**
Type	**AHD-IAMCS**
Applicant	**Boening Automationstechnologie GmbH & Co. KG**
	Am Steenöver 4
	27777 Ganderkesee
	GERMANY
Manufacturer	**Boening Automationstechnologie GmbH & Co. KG**
Place of manufacture	**Am Steenöver 4**
	27777 Ganderkesee
	GERMANY
Reference standards	**Rules for the Classification of Ships - Part C - Machinery Systems and Fire Protection; Ch. 3; Sec. 8, Table 1**

Issued in **Hamburg** *on* **September 12, 2024**. *This Certificate is valid until* **September 11, 2029**

RINA Services S.p.A.
Giuseppe Russo

This certificate consists of this page and 1 enclosure

.**AHD-IAMCS** consisting of:

Type	Description
AHD 570	5.7" LCD color display
AHD 570 DP	5.7" LCD color display
AHD 652	6.5" Color TFT-display
AHD 880 TC	8" Operating panel with touch screen
AHD 880 E	8" Operating panel with touch screen
AHD 880 G	8" Operating panel with touch screen
AHD 1115 F (foil)	15" Touch screen display
AHD 1115 G (glass)	15" Touch screen display
AHD 1119 F (foil)	19" Touch screen display
AHD 1119 G (glass)	19" Touch screen display
AHD 1215 F (foil)	15" Touch screen panel PC
AHD 1215 G (glass)	15" Touch screen panel PC
AHD 1219 F (foil)	19" Touch screen panel PC
AHD 1219 G (glass)	19" Touch screen panel PC
AHD 1110 F (foil)	10" Touch screen display
AHD 1110 G (glass)	10" Touch screen display
AHD 1200	Embedded PC
AHD 1224 G (glass)	24" Touch screen panel PC
AHD 1310 F (foil)	10" Touch screen panel PC
AHD 1310 G (glass)	10" Touch screen panel PC
AHD 406-2	Cabin/Duty Alarm panel
AHD-DPU 9	Data processing station
AHD 882	Central unit
AHD-SAS 15 M12	Data station for analogue and binary sensors
AHD-UCC	CAN-Repeater
AHD-UIC	Compact protocol converter (RS485/CAN)
AHD-R101	CPU-controlled relay board
AHD-R101-2	CPU-controlled relay board
AHD-PS 15, 30, 47, 15B	Data station with binary inputs, B-type: with duty selection function
AHD-WAOP K	Compact protocol converter
AHD-WAOP	Personnel alarm system
AHD-DPS 02 A07	Extension module for navigation and signal light control and monitoring
AHD-DPS 02 BS	Operation and indicator module for console
AHD-DPS 02 E07	Emergency switch unit with 7 switches
AHD-DPS 02 E14	Emergency switch unit with 14 switches
AHD-DPS 02 G14	Basic module for navigation and signal light control and monitoring

Type	Description
AHD-GAP F	Bridge Navigational Watch Alarm System (BNWAS)
AHD-DRM R	Control unit for color displays and monitors with rotary push drive
AHD-DRM T	Control unit for color displays and monitors with track ball

Remarks

The following documentation is to be sent to RINA for approval before each delivery on board:
- Drawings showing the systems layout and the details of power supply to the various subsystems.
- Description of functions / controls implemented and the relevant FMEA., to prove the compliance case by case with the applicable Marine Requirements (eg. SOLAS)
- Documentation of the applied software versions.

Hamburg September 12, 2024

Giuseppe Russo