

## TYPE APPROVAL CERTIFICATE

Certificate no.: **TAA00002XA**Revision No:

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that the Public Address and General Alarm System

with type designation(s) **Promatrix 9000** 

issued to

# Bosch Security Systems B.V. EINDHOVEN. Netherlands

is found to comply with

DNV rules for classification – Ships, offshore units, and high speed and light craft IMO A.1021(26) Code on alerts and indicators (2009) LSA Code VII 7.2 IMO MSC Circ 808

#### **Application:**

See page 2.

\*) Call station have been tested to Temperature- and EMC Class B

Temperature A+B\*
Humidity A
Vibration A
EMC A+B\*
Enclosure A

Issued at Høvik on 2024-05-02

for **DNV** 

This Certificate is valid until **2025-08-15**. DNV local unit: **Netherlands CMC** 

Approval Engineer: Steinar Kristensen

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This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



Job ID: **262.1-034679-2** Certificate no.: **TAA00002XA** 

Revision No: 1

### **Product description**

The Promatrix 9000 Public Address and General Alarm system can be provided as either:

- PA system only
- GA system only
- Integrated PA and GA system

When used for PA on passenger vessels or integrated PA and GA on any vessel, the system shall be duplicated (A+B system). When used for passenger vessels the A and B systems shall be installed in separate fire zones.

Promatrix 9000 Public Address and General Alarm System consists of the following equipment 1):

Equipment type	Description	Type no.
Central	System Controller Large	PM9-SCL
Equipment	System Controller Large	PM9-SCS
	Amplifier, 600W, 8 Channels	PM9-AD608
	Amplifier, 600W, 4 Channels	PM9-AD604
	Multifunction Power Supply Large	PM9-MPS3
	End-of-Line device	PM9-EOL
Network	Ethernet switch	PRA-ES8P2S
Equipment	Power supply module, 48V	PRA-PSM48
	Fiber Transceiver Module, Multimode	PRA-SFPSX
	Fiber Transceiver Module, Single Mode	PRA-SFPLX
Call Stations	Call Station Desktop	PM9-CSLD
	Call Station Wallmount	PM9-CSLW
	Call Station Extension	PM9-CSE
Software	Software Promatrix 9000 Software version SW 2.XX	

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<sup>&</sup>lt;sup>1)</sup> Actual configuration may vary based on requirements for individual installations. Only modules listed in certificate are approved for installation.



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#### Application/Limitation

- 1. The Promatrix 9000 system may be used in cargo ships, passenger vessels, high speed-, light- & naval surface craft and mobile offshore units for compliance with the following codes/rules/regulations:
  - SOLAS
  - HSC Code
  - MODU Code
  - DNV Statutory Interpretations, DNV-SI-0364 [July 2023]
- 2. Call Stations which are not used for emergency PA activation shall have a lower priority than GA.
- Call Stations with functions for activation of Emergency PA and GA are to be installed in locations with access control.
- 4. Call Stations with functions for activation of Emergency PA and GA shall be provided with means to avoid unintended use, e.g. cover for protection of keys. Keys shall be clearly labelled.
- 5. When used as combined PA/GA system, a minimum two independent speaker loops are required.
- Interconnection to other IP network/LAN and use of Open Interface is subject to separate case-by-case approval.

#### Type Approval documentation

DNV GL No	Document ID	Rev.	Description
28	171201096 003	Ver 2.00	Report: Telefication, EMC and environmental test report (DNVGL-CG-0339) for PA/GA system
25	GO017606	0.3	Report: Bosch, Test Results Performance Tests DNV-GL SW1.1.901
24	171201096-001	Ver 4.00	Report: Telefication, EN 54-1 test report for PA/GA system
22	M20.001- P20.001 Telefication B.V.	2020-02-03	Report: Sebert Trillingstechniek B.V., Vibration testing of VACIE system
21	BSH/4531/1043 3339/20/S3202	2020-02-17	Report: BSH, Compass safe distance test report for PA/GA CSxx call station modules
20	Promatrix 9000 1.10	V0.02	Manual: Dynacord, Promatrix 9000 Public Address and Voice Alarm system, Installation manual
19	Configuration Manual	V0.02	Manual: Dynacord, Promatrix 9000 Public Address and Voice Alarm system, Configuration manual

#### **Tests carried out**

Environmental testing: DNV-CG-0339 [2021]

Performance testing: Functional tests according to DNV Type Approval program 848.22

#### Marking of product

The Manufacturer and Type Designation to be applied to the equipment in a clearly visible location. In addition the equipment shall be marked with serial number, reference to Type Approval certificate, safe distance to magnetic compass, power consumption and/or supply voltage.

#### Periodical assessment

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

The scope of the periodical/renewal assessment is to verify that the production quality conditions stipulated for the type approval are complied with and that no alterations are made to the product design or its components and/or materials without appraisal by the Society.

This certificate is only valid if required periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in <a href="https://approvalfinder.dnv.com">https://approvalfinder.dnv.com</a>

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