DNV·GL

Certificate No:
TAA00000DA

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Fire Detector

with type designation(s)
Smoke Detectors FDS511B, FDS551B, FDS512B-J, FDS552B, FDK512B-J, FDK552B;Thermal Detectors FDL511B, FDL551B, FDL511B-J;Flame Detector VDCW501-D-J;Response Indicator FLL518

Issued to
Nohmi Bosai Ltd.
Chiyoda-ku, Tokyo, Japan

is found to comply with
DNV GL rules for classification – Ships and offshore units

Application :

Location classes:

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.

Type	Temperature	Humidity	Vibration	EMC	Enclosure
FDS512B-J FDK512B-J FDL511B-J	A	B	A	B	B
VDCW501-D-J	A	B	A	A	*
All other units	A	B	A	B	A
* Required protection according to the Rules to be provided upon installation on board					

This Certificate is valid until **2020-12-31**.

Issued at **Busan** on **2016-04-04**

for **DNV GL**

DNV GL local station: **Yokohama**

Approval Engineer: **Byoung So Lee**

Baeg Soon Choi
Head of Section

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.

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Product description

Unit	Type number
Ionization Smoke Detector	FDS511B, FDS551B, FDS512B-J, FDS552B
Optical Smoke Detector	FDK512B-J, FDK552B,
Thermal Detector	FDL511B, FDL551B, FDL511B-J
Response Indicator	FLL518
Flame Detector	VDCW501-D-J

Application/Limitation

System application and location of detectors to be in accordance with the Rules

Response indicator to be used only in conjunction with DNV approved NOHMI BOSAI Fire Alarm Unit

Type Approval documentation

Periodical assessment

The scope of the retention/renewal survey is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.
The main elements of the survey are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Retention survey is to be performed at least every second year and at renewal of this certificate.

END OF CERTIFICATE