DNV·GL

Certificate No:
TAA00000YR

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Fire Technical Ancillary Equipment

with type designation(s)
FQI515-C Short Circuit Isolator,
FRR529-FC/FRR530-FC Address Module,
FRR530-SLC/FRR530-DC Output Module,
FRR530-DAC Input Module,
FTQ501 Timer

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

is found to comply with
DNV GL rules for classification – Ships, offshore units, and high speed and light craft

Application :

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

Location classes:

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

This Certificate is valid until **2021-12-31**.

Issued at **Høvik** on **2017-01-13**

for **DNV GL**

DNV GL local station: **Yokohama**

Approval Engineer: **Nils Jarem**

Odd Magne Nesvåg
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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Job Id:
Certificate No: **TAA00000YR**

Product description

Type	Equipment	SW Version No.	Mounting
FQI515-C	Short Circuit Isolator	-	Exposed
FRR529-FC	Address Module	RR28E0	
FRR530-FC	Address Module	1.10	
FRR530-SLC	Output Module	1.10	
FRR530-DC	Output Module	1.10	
FRR530-DAC	Input Module	1.10	
FTQ501	Timer	-	

Application/Limitation

System application and location of loop equipment to be in accordance with relevant parts of DNV GL Rules.

Ex-certification is not covered by this certificate. Application in hazardous area to be approved in each case according to the Rules and Ex-Certification**/** Special Condition for Safe Use listed in valid Ex-certificate issued by a notified/recognized Certification Body.

Type Approval documentation

Tests carried out

Relevant tests according to DNV Standard for Certification No. 2.4.

Marking of product

The products to be marked with:
- manufacturer name
- model name
- serial number
- power supply ratings

Periodical assessment

The scope of the periodical assessment 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 assessment 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

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.

END OF CERTIFICATE