DNV·GL

Certificate No:
TAA00002D7

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Navigation Light Controllers

with type designation(s)
ITNSL-01

Issued to
Inelteh d.o.o.
RIJEKA, Croatia

is found to comply with
DNV GL class programme DNVGL-CP-0203 – Type approval – Electronic and programmable equipment and systems
IMO Res.MSC.253(83) Performance standards for navigation lights, navigation light controllers and associated equipment

Application :

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

Temperature	**A**
Humidity	**A**
Vibration	**A**
EMC	**B**
Enclosure	**Suitable protection required**

Issued at **Hamburg** on **2019-07-17**
This Certificate is valid until **2024-07-16**.
DNV GL local station: **Rijeka**

Approval Engineer: **Marco Rinkel**

for **DNV GL**

Joannis Papanuskas
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

Main unit ITNSL-01 (Colour LCD diplay)

Power supply unit	ITNSLP-1
Input module	ITNL-10
Input module	ITNL-3
Input module	ITSL-13
Input module	ITSL-7
Power supply	230V (+6% - 10%), 50-60Hz

Power range of laterns/lights 4W up to 120W

Application/Limitation

Equipment for installation outside a distance of 100 cm from a standard or a steering magnetic compass. Used illuminats should be verified for suitability.

Type Approval documentation

Tests carried out

Applicable tests according to class guideline DNVGL-CG-0339, November 2016.
Requirements as per MSC.253(83) have been recognized

Marking of product

The products to be marked with:

- Model name
- Manufacturer name
- Serial number

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