Certificate no.:
TAA00003RE

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Navigation Light Controllers

with type designation(s)
ASC NL120N / ASC NL121N

issued to
Glamox Sp. z o.o.
Dobczyce, **Poland**

is found to comply with
DNV 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.

Temperature	**B**
Humidity	**B**
Vibration	**A**
EMC	**B**
Enclosure	**Required protection according to the Rules shall be provided upon installation on board.**

Issued at **Høvik** on **2026-04-13**
This Certificate is valid until **2031-04-12**.
DNV local unit: **Katowice CMC**

for **DNV**

Approval Engineer: **Tommi Juhani Rifaat**

Product description

Navigation light controller
Type Navigation Light Control System ASC NL120N / ASC NL121N

Item group description	System ITEM no.
ASC NL120N NAV LIGHT CTRL TP	34660xxxxx - with touch screen
ASC NL121N NAV LIGHT CTRL HW	34640xxxxx – with Hard Wired Panel

Navigation light controller modular components:

Components		Description	Channels	A/N
1	MANUAL OVERRIDE MODULE DIM	Nav. Lamp connection	8x8	8346412700
2	Power Supply Unit with appropriate approval	Redundant Power Supply – 24V, 5-40A	N/A	N/A
3	PLC WAGO PFC family with BUS interfaces	Control Unit	32+32	N/A
4	EMERGENCY SWITCH FOR NAV.LANTERN S66	Nav.Lamp connection	8x8	8342556800

Functionalities:

- Designed for incandescent or LED navigation lights with integrated lifetime shut off
- Lamp failure monitoring according to EN 14744 § 4.10.1 for color and luminosity
- Manual emergency control of single monitoring override outputs
- Independent power supply (Main / Emergency) with manual or automatic switch over
- Control Panels include marine touch screen with dimming functionality
- System fault indication
- Alarm acknowledging button with log file
- Serial interfaces

Navigation light control system consists of:

- Any combination of single components mentioned above up to 8x8 circuits
- Controller Power supply (main and standby): 24VDC, 110-240VAC
- Navigation Light Power supply (LED or standard bulbs), main and standby 24VDC
- Control panel NL120N or NL121N
- Control cabinet – Aqua Signal Control – Control Cabinet Navy Light

Optional:
Electrical control devices may be served from additional external back-up supply.
The Control Touch Panel can be replaced by any type of approved touchscreen in combination with type approved SPS unit based on type WAGO PFC family.
Control cabinet can be replaced by a type approved cabinet with similar or better EMC properties.

Application/Limitation:

- Operation instruction manual of the manufacturer to be observed.
- The control system shall only be connected to lights required in COLREG and signal lights required by various canal and water way authorities.
- All parts of the system are to be installed in navigational bridge or any other appropriate areas and be easy accessible for repair and maintenance.
- Control system shall only be connected to lights required in COLREG, and signal lights required by various canal and water way authorities.
- The Manual override modules are to be connected to LED lights that fulfil the requirements stated in product instruction and User Manual.
- The Module must be mounted in such a way that it can be reached without using tools in order to fulfill class requirements.
- Alert interface only suitable for legacy alert handling and may interface to a Bridge Alarm Panel using ALR.

Type Approval documentation

DNV No	Drw No	Rev	Title
2	PS-8346412700	2	Doc: Glamox, Product Specification Manual Override Module DIM
5	7346600200	1	Drawing: Glamox, Dimension drawing cabinet for NL120N
6	073146.014.22	1	Report: MTN, NL120N DNVGL-CG-0339, MIL-STD-461G EMC Test Report
8	TR01222280		Report: NL120N Test Report
9	073146.014.22		Report: MTN, NL120N Cabinet DNV-CG-0339 EMC Test Report
10	BOS/4057/BE/24		Report: Bosmal, NL120N DNV-CG-0339 Temperature Test Report
11	BOS/5471/BE/24		Report: Bosmal, NL120N DNV-CG-0339 Vibration Test Report
12	ES0639/2024/01		Report: Glamox, Temporal stability Test Report
13	ES0640/2024/01		Report: Glamox, IEC 622888 4.3 Test Report
14	ES0654/2024/01		Report: Glamox, IEC60945 7.2, 7.3, 10.7
15	7346600700	2	Manual: Glamox, ASC Type NL120N General System Description
20			Doc: Luminance meter certificate translation
23	No DPL/003/066/26		Report: PGZ, Aqua Signal Control – Control Cabinet Navy Light NL121N DNV-CG-0339 Radiated Emission Test report

Tests carried out

Class Guideline DNV-CG-0339, August 2021
IMO Resolution MSC.253(83)

Marking of product

The products to be marked with:

- manufacturer name
- model 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.