



Certificate no.:
TAA00003M4

TYPE APPROVAL CERTIFICATE

This is to certify:

that the **Network and Communication Components**

with type designation(s)
Lynx-RedBox

issued to

Westermo Network Technologies AB
Stora Sundby, Sweden

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.

Location classes:

Temperature	D
Humidity	B
Vibration	A
EMC	B
Enclosure	A / IP2X

Issued at **Høvik** on **2025-10-13**

This Certificate is valid until **2030-10-12**.

DNV local unit: **Sweden CMC**

for **DNV**

Approval Engineer: **Nikolai Arntzen**

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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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

Product description

Westermo Lynx Industrial Switches, comprising the following unit:

Art. No.	Type Designation	Rated voltage	Description Ports
3643-3050	Lynx-RB-FT3G-LV	24-125 VDC	3 SFP Fiber, 3 Copper RJ45

Dielectric strength – Ethernet to other isolated ports:

1.5 kVAC

Dielectric strength – Power to other isolated ports:

2.0 kVAC

Manufactured by**Westermo Network Technologies AB**Wij 4,
635 35 Stora Sundby,
Sweden**Approval conditions**

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV rules for classification of ships Pt.4 Ch.9 Control and monitoring systems.

Application/Limitation

Compass safe distance for all units: Standard: 15 cm, Steering: 10 cm.

Shielded CAT6 Ethernet cable is required to fulfil class requirements for EMC.

Type Approval documentation**Tests carried out**

Applicable tests according to class guideline DNV-CG-0339, August 2021.

30 g, 11 ms shock test according to IEC 60255-21-2:1988.

'Compass safe distance' was measured according to section 11.2 of IEC 60945:2002.

Marking of product

Westermo

Art. No. and Type as listed under Product description

Unique serial number

Power supply voltage and current rating

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