

TYPE APPROVAL CERTIFICATE

This is to certify:
That the Peripheral Equipment

with type designation(s)
T15BR, T15BM

Issued to
Beijer Electronics Inc
Salt Lake City, United States

is found to comply with
Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and Det Norske Veritas' Offshore Standards

Application :

Location classes:

Type	Temperature	Humidity	Vibration	EMC	Enclosure
T15BR	D	B	B	B	C (panel front only)
T15BM	B	B	A	B	C (panel front only)

This Certificate is valid until **2018-12-31**.

Issued at **Høvik** on **2014-08-22**

DNV GL local station: **Long Beach**

Approval Engineer: **Nils Jarem**

for **DNV GL**

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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. If any person suffers loss or damage which is proven to have been caused by any negligent act or omission of the Society, then the Society shall pay compensation to such person for his proven direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question. The maximum compensation shall never exceed USD 2 million. In this provision the "Society" shall mean DNV GL AS as well as all its direct and indirect owners, affiliates, subsidiaries, directors, officers, employees, agents and any other person or entity acting on behalf of DNV GL AS.

Certificate No: **A-13829**
File No: **899.60**
Job Id: **262.1-017633-1**

Product description

T15BR / T15BM touchscreen operator panel.
15.4", 1280 × 800 pixel, LED lighted, TFT color display

Nominal voltage: 24V DC

Compass safe distance:
Standard compass: 120 cm,
Steering compass: 80 cm

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 Ships Pt.4 Ch.9 Control and Monitoring Systems.

Application/Limitation

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

Datasheet : iX T15BR datasheet
Manual: T15BR Installation Manual, MAEN165, dated 2014-04
Test reports: 247721-2.2 dated 2013-11-25
247500-3.2 dated 2013-11-22
11244-1S Rev. 2

DNV GL Long Beach initial assessment report dated 2014-06-13

Tests carried out

Applicable tests according to Standard for Certification No. 2.4, April 2006.
The 'Compass safe distance' was measured according to section 11.2 of IEC 60945 4th edition (2002).

Marking of product

The products to be marked with model name, manufacturer name and 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 at least every second year and at renewal of this certificate.

END OF CERTIFICATE