Certificate No:
TAA00003A5

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Fire Alarm Central Unit

with type designation(s)
T1306 range of marine panels, T1306-BBS and T1306-BBL Battery boxes

Issued to
Tyco Fire & Security GmbH
Neuhausen am Rheinfall-Schaffhausen, SH, Switzerland

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:

Type	Temperature	Humidity	Vibration	EMC	Enclosure
T1306 range of marine panels	B	B	A	B	A / IP32
T1306-BBS and T1306-BBL Battery boxes	B	B	A	B	B / IP55

Issued at **Høvik** on **2023-12-14**
This Certificate is valid until **2028-12-13**.
DNV local unit: **UK & Ireland CMC & VMC**

Approval Engineer: **Frode Nygård**

for **DNV**

Frederik Tore Elter
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.

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 300,000 USD.

Product description

Control and indicating equipment for T1306 range of addressable marine fire control panel (AC and DC) with battery boxes and AC/DC Repeaters.

Type	Product No.	Description / Ratings
T1306-DC	557.200.114	Addressable Marine DC panel, 2 loops (Mild metal enclosure - IP 32) Main voltage: 24V DC, -15%/+10%, Maximum current drawn: 10A
T1306-AC	557.200.115	Addressable Marine AC panel, 2 loops (Mild metal enclosure - IP 32) Main voltage: 110/230 V AC Maximum current drawn: 0.8A @240VAC
T1306-RDC	557.200.116	Repeater panel (24VDC) (Mild metal enclosure - IP 32) Main voltage: 18 to 32 VDC Maximum current drawn: 132 mA.
T1306-RAC	557.200.117	Repeater panel (240VAC) (Mild metal enclosure - IP 32) Main voltage: 110/230 V AC, -15%/+10% Maximum current drawn: 0.8A @240VAC
T1306-BBS	557.200.118	Small Battery Box for T1306-DC, T1306-AC, T1306-RAC, 24VDC / 17 Ah
T1306-BBL	557.200.119	Large Battery Box for T1306-DC, T1306-AC, T1306-RAC, 24VDC / 38 Ah
T1306-DC	557.200.120	Console Mounted Repeater (24VDC) (Mild metal enclosure - IP 32) Main voltage: 18 to 32 VDC Maximum current drawn: 132 mA.

FW version 1.01

Place of manufacture

Tyco Fire & Security Czech Republic s.r.o.
Osvobození 363
Ráječko
679 02 Rájec-Jestřebí
Czech Republic
CZ 679 02

Application/Limitation

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

Approval conditions

The Type Approval covers hardware and software listed under Product description.
Reference is made to DNV rules for classification of ships Pt.4 Ch.9 Control and monitoring systems.

When the hardware is used in applications to be classed by DNV the following documentation of the actual application is to be submitted for approval in each case:
- Reference to this Type Approval Certificate
- System block diagram
- Power supply arrangement (may be part of the System block diagram)

Correct configuration and set up for each delivery to be tested during commissioning after installation.

Software control
All changes in software are to be recorded as long as the system is in use on board. Documentation of major changes is to be forwarded to DNV for evaluation and approval before implemented on board.

Type Approval documentation

Tests carried out

Applicable tests according to:
- Class guideline DNV-CG-0339, August 2021
- EN 54-2:1997 incl. AC:1999 and A1:2006
- EN 54-4:1997 incl. AC:1999, A1:2002 and A2:2006

Marking of product

The products to be marked with:
- manufacturer name
- item number
- 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