DNV·GL

Certificate No:
TAA00001Z4

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Fire Detector

with type designation(s)
811H/801HEx/811HExn;
811PH/801PHEx/811PHExn;
811CH/801CHEx/811CHExn,
EXI800 MX I.S.

Issued to
Tyco Fire & Security GmbH
Schaffhausen, Switzerland

is found to comply with
DNV GL 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 GL.

Location classes:

Type	Temp.	Hum.	Vibr.	EMC	Enclosure
811H/801HEx/811HExn; 811PH/801PHEx/811PHExn; 811CH/801CHEx/811CHExn	**D**	**B**	**A**	**A**	**With MUB/MUBEx: Class A With MUB/MUBEx and DHM69: Class B**
EXI800 MX I.S.	**D**	**B**	**A**	**B**	**Required protection according to the rules to be provided upon installation onboard**

Issued at **Høvik** on **2018-08-30**
This Certificate is valid until **2022-12-31**.
DNV GL local station: **Southampton**

for **DNV GL**

Approval Engineer: **Nils Jarem**

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.

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Product description

Type Number	Equipment
811H / 801HEx / 811HExn	Addressable Heat Detector
811PH / 801PHEx / 811PHExn	Addressable Optical Smoke and Heat Detector
811CH / 801CHEx / 811CHExn	Carbon Monoxide and Heat Detector
MUB/MUBEx	Universal Mounting Base
DHM69	Deckhead Mounting Kit
EXI800 MX I.S.	Interface Module

Approval conditions
The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV GL, 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 GL rules for classification of ships Pt.4 Ch.9 Control and monitoring systems.

Application/Limitation
Approved for use with Type Approved Fire Alarm Central Units configured in "MX CONSYS".

System application and location of detectors to be in accordance with relevant parts of the Rules.

Ex installations 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.

Ex-certification is not covered by this certificate and the following paragraph, which is for information only, is based on information received from the manufacturer, but not verified by DNV GL.

Information on Ex-Certification received from manufacturer – Not verified by DNV GL		
Equipment	Certified	Certificate No.
801HEx, 801PHEx, 801CHEx	⟨Ex⟩ II 1 G EEx ia IIC T5	BAS01ATEX1394X

Type Approval documentation

Tests carried out
Applicable tests according to DNV Standard for Certification No. 2.4.

Marking of product
The products to be marked with:
- manufacturer name
- model name
- 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