



TYPE APPROVAL CERTIFICATE

Certificate No:
TAA00001Z4
Revision No:
1

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
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
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 **2023-09-14**

for **DNV**

This Certificate is valid until **2027-12-31**.

DNV local unit: **UK & Ireland CMC & VMC**

Approval Engineer: **Frode Nygård**

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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.



Form code: TA 251

Revision: 2022-12

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Product description

The type approval covers the following modules:

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

Place of manufacture

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

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

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.

Information on Ex-Certification received from manufacturer – Not verified by DNV		
Equipment	Certified	Certificate No.
801HEX, 801PHEX, 801CHEX	II 1 G EEx ia IIC T5	BAS01ATEX1394X iss.9

Type Approval documentation

Description	Detectors	
	811H	801HEX
Data sheets:	17A-02-H, issue 3	17A-02-HEX, issue 2
Circuit diag.:	C125-585-634, issue 3	EECS C125.585.902, issue 2
Assy. dwgs.:	516-800-502T, issue 1	DL516-800-532, issue 2
Comp. lists:	CL516-800-502T, issue 1	(CL) EECS 516-800-532

Description	Detectors	
	811PH	801PHEX
Data sheets:	17A-02-PH, issue 3	17A-02-PHEX, issue 3
Circuit diag.:	C125-585-631, issue 7	EECS C125.585.900, issue 2
Assy. dwgs.:	516-800-500T, issue 1	DL516-800-530, sh1 is2, sh2 is5
Comp. lists:	CL516-800-500T, issue 2	(CL) EECS 516-800-530, issue 1

Publications	Detectors	
	811CH	801CHEx
Data sheets:	17A-02-CH, issue 2	17A-02-CHEx, issue 1-11/02
Circuit diag.:	C125-585-633, issue 7	EECS C125.585.901, issue 1
Assy. dwgs.:	516-800-501T, issue 3	DL516-800-531, issue 2
Comp. lists:	CL516-800-501T, issue 3	(CL) EECS 516-800-531

Description	Mounting Base MUB/MUBEx and Deckhead Mounting Kit DHM69
Data sheet:	17A-02-MUB/17A-02-MUBEx
Assy. dwgs.:	DL517-050-610

Publications	Loop Interface Module
	EXI800 MX I.S.
Data sheets:	17A-02-EXI, issue 1-11/02
Circuit diag.:	C125-585-831, issue 2
Assy. dwgs.:	514-001-063, issue 3
Comp. lists:	CL 514-001-063
800 Series Design Info.	17A-02-DET, issue 7

Publications	Publication Reference Nos.
BASEEFA	Certificate BAS01ATEX1394X issue 9 dated 8. June 2017
IECEX	Certificate IECEX BAS 07.0063X issue 6
Test Reports: LPC and BRE	TE 93239, TE 93238, TE 93552, TE 93553, TE 93465, TE 93829 and 208642 dated 18. October 2002
Test report, VDS	BMA 01023 dated 24. October 2001 G 208113 dated 15. July 2020, G 208108 dated 12. June 2020 G 208128 dated 12. June 2020
EMC Test report, intertek	103836150LHD-001f dated 27. June 2019

Type approval renewal assessment report for TAA00001Z2, Sunbury, U.K. on 2022-11-22.
Type approval renewal assessment report Production place, DNV Czech Republic on 2023-07-26.

Tests carried out

Applicable tests according to:

- Class guideline DNV-CG-0339, August 2021,
- EN 54-5:2000 incl. A1:2002 (for heat detectors)
- EN 54-7:2000 incl. A1:2002 and A2:2006 (for smoke detectors)
- EN 54-17:2005 incl. AC:2007 (for short circuit isolators)

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