

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00005CV
Revision No:
1

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV AS under the authority of the Government of Norway.

This is to certify:

That the Fixed fire detection and fire alarm systems components for control stations, service spaces, accommodation spaces, cabin balconies, machinery spaces and unattended machinery spaces: Heat detectors and Short circuit isolators

with type designation(s)
800 Ex series addressable fire detectors

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

is found to comply with the requirements in the following Regulations/Standards:
Regulation (EU) 2022/1157,

item No. MED/3.51c. SOLAS 74 as amended, Regulation II-2/7 & X/3, 1994 HSC Code 7, 2000 HSC Code 7, FSS Code 9 and IMO MSC.1/Circ.1242

item No. MED/3.51d. SOLAS 74 as amended, Regulation II-2/7 & X/3, 1994 HSC Code 7, 2000 HSC Code 7, FSS Code 9, IGF Code 11 and IMO MSC.1/Circ.1242

item No. MED/3.51g. SOLAS 74 as amended, Regulation II-2/7 & X/3, 1994 HSC Code 7, 2000 HSC Code 7, FSS Code 9, IGF Code 11 and IMO MSC.1/Circ.1242

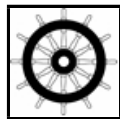
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2027-08-01**.

Issued at **Høvik** on **2022-11-24**

DNV local station:
UK & Ireland CMC & VMC

Approval Engineer:
Frode Nygård



Notified Body
No.: **0575**

for **DNV AS**



Digitally Signed By:
Steinar Kristensen
Location: DNV Høvik, Norway
on behalf of

Sverre Olav Bergli
Head of Notified Body



The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

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

800 Ex series addressable fire detectors.

801 HEx	Addressable heat detector
801 PHEX	Addressable optical smoke & heat detector
MUBEx	Intrinsically safe base (standard base with additional Ex label)
EXI800	Loop interface module

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.

The equipment are found to comply with following location/application dependent requirements (for definition of each of the location classes, see below the table):

MODEL	TEMPERATURE	VIBRATION	EMC	ENCLOSURE
800 Ex series	TEM-D	VIB-A	EMC-A	IP44 Salt mist test

Definition of the location classes with reference to relevant standards:

Temperature:

TEM-D Location (-25°C to +70°C) (ref. IEC 60092-504 (2016) table 1 item 6-7)

Vibration:

VIB-A (ref. IEC 60092-504 (2016) table 1 item 10)

EMC:

EMC-A Power distribution zone (ref. IEC 60092-504 (2016) table 1 item 13-20)

Type Examination documentation

Equipment	Scope	Document	No.
801 Hex,	Product data	17A-02-HEx, rev 5.0	44
	EN 54-5	TE 93552 dated 2000-08-10	45
	EN 54-5	BMA 08070 dated 2008-07-21	50
	EN 54-5	TE278401/1 dated 2015-09-14	40
	EN 54-5	0786-CPR-20593 dated 2022-08-29	144
	EN 60092-504*	TE278401/1 dated 2013-02-04	37
	EN 60092-504*	TE278401/1 dated 2015-09-14	40
801 PHEX	Product data	17A-02-PHEX, rev 6.0	42
	54-7	TE 93553 dated 2000-11-18	46
	EN 54-5, EN54-7	BMA 08069 dated 2008-07-10	35
	EN 54-5, EN54-7*	TE278401/1 dated 2015-09-14	40
	EN 54-5, EN 54-7	0786-CPR-20595 dated 2022-08-29	145
	EN 60092-504*	TE278401/1 dated 2013-02-04	37
	EN 60092-504*	TE278401/1 dated 2015-09-14	40
MUBEx	Product data	17A-02-MUBEx rev 2	43
EXI800	Product data	17A-02-EXI, rev 3.0	44
	EN 54-17	(same tests as in EN 54-5, EN54-7)	
	EN 54-5, EN54-7	Tested in No. 37, 40 and 50	
	EN 60092-504*	103836150LHD-001m dated 2019-04-02	01
	*Supplemental tests		



Job Id: **344.1-009344-19**
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Tests carried out

EN 54-5:2017 incl. A1:2018
EN 54-7:2018 (For Multisensor only)
IEC 60092-504:2016
IEC 60533:2015

Marking of product

For identification to this type examination certificate the products shall be marked with:

- Manufacturer's name or trade mark
- Type designation
- Mark of Conformity (wheel mark), followed by
 - identification number of the NoBo involved in production control (MED D)
 - the year the mark is affixed.
 - Example: 0575/2022