EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB0000BWZ
Revision no.:
0

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

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: - control and indicating equipment**

with type designation(s)
Conventional Fire Detection and Alarm System FMS3000

issued to
DECKMA-Decksmaschinen und Automation Vertriebsgesellschaft mit beschränkter Haftung
Rosengarten-Klecken, **Germany**

is found to comply with the Implementing Regulation **(EU) 2025/1533** for
Item no. **MED/3.51a** (Row **2 of 2**)
according to the following requirements:
SOLAS 74 Reg. II-2/7, IMO Res. MSC.36(63)-(1994 HSC Code) 7, IMO Res. MSC.97(73)-(2000 HSC Code) 7, IMO Res. MSC.98(73)-(FSS Code) 9, IMO Res. MSC.302(87), IMO Res. MSC.391(95)-(IGF Code) 11, IMO MSC.1/Circ.1242, IMO MSC.1/Circ.1487, IMO MSC.1/Circ.1528, SOLAS 74 Reg. X/3, IMO Res. MSC.98(73)-(FSS Code) 9

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

Date of issue: **2025-12-16**

Expiry date: **2030-12-15**

DNV local unit:
Hamburg – CMC North/East

Approval Engineer:
Heinz Scheffler

Notified Body
no.: **0098**

for **DNV SE**

Christine Mydlak-Röder
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 SE 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 USD 300 000.

Product description

Please see Appendix: Product Description

Application/Limitation

Project documentation for a FMS 3000 Fire Detection System:
According to Chapter 9 of the FSS Code, the required project documents must be submitted to the flag administration.
If DNV is the recognized organization (RO of the flag administration), the following documents must be submitted:
• Reference to this type approval certificate
• DNV type approval certificate for electronic built-in devices not produced by the manufacturer
• Functional description (including description of the functions covered by the software)
• Configuration of the application software and software release
• System block diagram
• Description of the user interface
• Electrical diagram with interfaces (including list of control and monitoring points)
• Power supply layout (may be part of the system block diagram)
• Arrangement Drawing if this drawing is part of this project
• Test program for application software from the manufacturer

Periodical testing and Maintenance:
The testing shall comply with instructions from flag administration and maker's maintenance manual

Type Examination documentation

Tests carried out

• EN 54-2:1997 incl. AC:1999 and A1:2006.
• IEC 60945:2002 incl. IEC 60945 Corr. 1:2008
• IEC 62923-1:2018
• IEC 62923-2:2018
• IEC 60092-504:2016
• IEC 60533:2015.

Marking of product

For identification to this type examination certificate the products shall be marked with:
• Manufacturer name
• Type designation with device type
• Serial Number
• According to Chapter 2 -The Wheel Mark- of the Council Directive (MED)

APPENDIX
Product Description

Certificate no.:
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Revision no.:
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Control and indicating equipment of the Conventional Fire Detection and Alarm System FMS 3000

The FMS 3000 is flexible system and can contend with the following components:

Type	Equipment Name	Technical Remarks	Software Module
HT01-E	Panel	max. 1 Main Panel and 1 Repeater Panel	4.0.x
AM01-E	Output Module	8x relay output / 3 x 24 VDC outputs /1 Input (max. 2 x AM01-E Module)	3.2.x
VM01-E	VDR Module	NMEA 0183 protocol via RS485 or RS232 (max. 1 module)	4.0.x
DM01-E	Printer Module	Centronics interface (max. 1 modules)	3.2.x
FM01-E	Fire Detection Module	Conventional for up to 8 loops (max. 4 modules)	3.2.x
MBM01-E	BAM-CAM Module	Max. 38600 baud rate, ASCII (max.1 modules).	4.3.x (BAM-CAM)