# EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
**MEDB00008K9**

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV GL 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: Flame detectors – Point detectors**

with type designation(s)
**DF1500**

Issued to
**Dräger Safety AG & Co. KGaA**
**Lübeck**, **Germany**

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2023/1667,**
**item No. MED/3.51e. 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 **2028-11-01**.

Issued at **Hamburg** on **2023-11-02**

DNV local unit:
**Hamburg – CMC North/East**

Approval Engineer:
**Dariusz Lesniewski**

Notified Body
No.: **0098**

for **DNV GL SE**

**Christine Mydlak-Roeder**
**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 GL 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This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 300,000 USD.

## Product description
Dräger DF1500 IR3 flame detector.

Tested software rev. v1.xx

Nominal voltage 24V DC.

## 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 is found to comply with following location/application dependent requirements:

- EMC: General distribution zone and Bridge and open deck zone (ref. IEC 60092-504 (2016) table 1 items 16, 19, 20)
- Vibration: General applications (ref. IEC 60092-504 (2016) table 1 item 10)
- Temperature: -25°C to +55°C - weather-protected and non-weather protected locations (ref. IEC 60092-504 (2016) table 1 item 6, 7)
- Enclosure: IP66

## Type Examination documentation

## Tests carried out
EN 54-10:2002 incl. A1:2005
IEC 60092-504:2016
IEC 60533:2015

## Marking of product
The products to be marked with:
- manufacturer name
- model name
- serial number
- power supply ratings