

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate No:
MEDB00002R7
Revision No:
1

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)

FL 80/1AN, FL 80/1AM, FL 80/1AM-1, FL 80/1AM-EW, FL 80/1AM-EW-1A, FL 80/1AM-EW-VG1

Issued to

Egon Harig GmbH
Oststeinbek, Germany

is found to comply with the requirements in the following Regulations/Standards:

Regulation **(EU) 2018/773,**

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

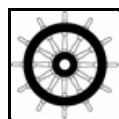
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2022-09-24.**

Issued at **Hamburg** on **2019-07-15**

DNV GL local station:
Hamburg

Approval Engineer:
Heinz Scheffler



Notified Body
No.: **0098**

for **DNV GL SE**

Gerhard Aulbert
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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.



Job Id: **344.1-006938-4**
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Product description

Optical UV-Flame Detector types:

- FL80/1Ax
 - FL80/1Ay
- x = N: Relays K1 and K2 with potential-free contacts
y = M, M-1, M-EW, M-EW-1A, M-EW-VG1: Relays K1 and K2 with signal lines adaptation for the relevant fire alarm control panel

Technical data:

- Alarm sensibility: according to EN54 part 10, class 1
- Optical Location Angle: 180°
- Response time: typical < 2s
- Power supply: 24 V DC
- Current consumption: quiescent 35mA, alarm condition 55mA
- Outputs: One potential-free close contact for voltage failure, 1 A, 250 V AC
One potential-free close contact for fire alarm, 1 A, 250 V AC

Application/Limitation

The equipment are found to comply with requirements for equipment install in the bridge and deck zone. Function of the potential free contact is part of the relevant project.

Type Examination documentation

Test Reports: 17-9045 Rev.1; 071694.140.17 V1.2; BMA 10046, 12-L-00139-01, 12-4065

Documents: Datasheet 4.0248; Operating Instruction 4.0249; Description 4.0250; Pamphlet sheet S-PB-4.9194-1; Overview Drawing List 4.03244, Rev. 14

Tests carried out

- EN 54-10:2002 incl. A1:2005
- 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
- Type designation with device type
- Serial Number
- Mark of Conformity

END OF CERTIFICATE