



Marine &amp; Offshore

Certificate number: 22762/C0 MED

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This certificate is not valid when presented without the full attached schedule  
composed of 7 sections  
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Notified Body 2690 - MARINE EQUIPMENT DIRECTIVE 2014/90/EU

## EC TYPE EXAMINATION CERTIFICATE

as per Module B of Directive 2014/90/EU of the European Parliament and of the Council of 23 July 2014 as transposed in the French Regulations and Commission Implementing Regulation (EU) 2021/1158 of 22 June 2021

This certificate is issued to:

**DETECTOMAT SYSTEM**

AHRENSBURG - GERMANY

for the type of product

**FIXED FIRE DETECTION AND FIRE ALARM SYSTEMS COMPONENTS [...] - FLAME DETECTORS: POINT DETECTORS**

Conventional Flame Detectors.

Type: IRY2 and VIREx.

### Requirements:

IMO Res. MSC.36(63) -(1994 HSC Code)- as amended, 7

IMO Res. MSC.97(73) -(2000 HSC Code)- as amended, 7

IMO Res. MSC.98(73) -(FSS Code)- as amended, 9

IMO Res. MSC.391(95) -(IGF Code)- as amended, 11

IMO MSC.1/Circ.1242

EN 54-10:2002 incl. /A1:2005

As applic., electrical and electronic installation in ships:

IEC 60092-504:2016

IEC 60533:2015

This certificate is issued on behalf of the French Maritime Authorities to attest that Bureau Veritas Marine & Offshore did undertake the relevant type-examination procedures for the product identified above which was found to comply with the relevant requirements of the Directive 2014/90/EU of the European Parliament and of the Council of 23 July 2014 as transposed in the French Regulations.


**This certificate will expire on: 11 Oct 2026**

**For Bureau Veritas Marine & Offshore Notified Body 2690,**

At BV SAINT-NAZAIRE, on 11 Oct 2021,

Francois LOPINOT



This certificate does not allow to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark ) to the products corresponding to this type. To this end, the production-control phase module (D, E or F) of Annex II of the Directive is to be complied with and controlled by a written inspection agreement with a notified body.

This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. Bureau Veritas Marine & Offshore is designated by the French Maritime Authority as a "notified body" under the terms of the French Regulations Division 140 Chapter 140-2. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

## **THE SCHEDULE OF APPROVAL**

### **1. PRODUCT DESCRIPTION:**

- Product model or type designation :  
type **IRY2** and **VIREx**

- Product description:  
Conventional Flame Detectors.

#### **1.1 - Main Characteristics of IRY2 Detector:**

<b>IRY2</b>	<b>Conventional Detector.</b>
Principle	Point Detector using Infrared Radiations.
Response Threshold Value	Adjustable (Class 1 & Class 2).
Protection Index	IP 20 Indoor.
Working Temperature	-10°C to 55°C
Power Supply	12 to 28 VDC
Software Version	1.0x

#### **1.2 - Main Characteristics of VIREx Detector:**

<b>VIREx</b>	<b>Intrinsic Safety Conventional Detector (Ex ia IIC T6).</b>
Principle	Point Detector using Infrared Radiations.
Sensitivity	Adjustable (Class 1 & Class 2).
Protection Index	IP 20 Indoor.
Working Temperature	-10°C to 55°C
Power Supply	20 VDC (9 to 28 VDC) through I.S. Barrier.
Software Version	1.0x

### **2. DOCUMENTS AND DRAWINGS :**

#### **FARE:**

	<b>IRY2</b>	<b>VIREX</b>
Electrical Scheme	B3095E rev. A dated 14-11-1997	B3095E rev. A dated 14-11-1997
BOM	NOM262 rev.B dated 04-07-2017	NOM259 rev..B, dated 28-04-2015
<b>Software revision</b>	FIL_A3764L V1.05 dated 22-04-2020	FIL_A3764L V1.05 dated 22-04-2020
PCB technical booklet	A3642C0, dated 09-09-2015	A3642C0, dated 09-09-2015
Technical Booklet - Installation and wiring	IRY2M_NTP_108 Rev. C dated 08-02-2019	VIRExM_NTP_728 Rev. A dated 20-05-2019

### **3. TEST REPORTS:**

#### **CNPP:**

VIREx: Test Report No. DE 08 00 57 A, dated 20 Mar 2015.

IRY2: Test Report No. DE 08 00 52 A, dated 20 Mar 2015

IRY2 Test Report No. DE 08 00 59 A, dated 03 Apr 2015.

#### **EMITECH:**

Test Reports No. RS-030-M45-07-102417-3-A dated 08/11/07 and No. RC-030-M45-07-102417-1-A dated 06/11/07.

#### **LCIE:**

VIREx: EC Type Examination Certificate No. LCIE 03 ATEX 6349 X / 02, dated Feb 4, 2016

#### **FARE:**

VIREx: CEM Directive 2004/108/CEE Conformity Declaration No. VIR\_DF A06 dated 17 October 2007.

#### **AFNOR:**

VIREx: Declaration of performance No. 0333-CPR-075233, dated Apr 8, 2015

IRY2: Declaration of performance No. 0333-CPR-075235, dated Apr 8, 2015

#### **LNE:**

Test Report No. P190832\_DEC/1, dated Apr 03, 2019.

**4. APPLICATION / LIMITATION :**

- 4.1 - As per Requirements of Regulations stated on the front page of this certificate.
- 4.2 - The equipment fulfils the EMC requirements for installation on the Bridge and Deck Zone.
- 4.3 - Only VIREx Detector is to be fitted in hazardous areas. The detectors are not to be used in refrigerated chambers.
- 4.4 - Prior to fit on board, assessment of compatibility or connectability with fire alarm unit is to be performed.
- 4.5 - Only Hardware and Software successfully tested together in compliance with the regulations as referred to in page one, according to the declaration of the manufacturer are covered by this certificate.
- 4.6 - Ex-certification is not covered by this certificate, Applications in hazardous areas are to be approved in each case according to the Rules and Conditions for Safe Use specified in a valid Ex-Certificate issued by a Notified or Recognised Certification Body.
- 4.7 - In case of installation in Hazardous Area, a type approved I.S barrier, is to be fitted in safe Area, to limit the electrical power on the detection line.
- 4.8 - The following component(s) shall comply with the requirements of MED2014/90/EU, as amended, and be wheelmarked:  
- IRY2 and VIREx.

**5. PRODUCTION SURVEY REQUIREMENTS :**

- 5.1 - This certificate alone does not allow the applicant to issue the Declaration of Conformity and to affix the mark of conformity (wheelmark) to the products corresponding to this type. To this end, the production-control phase module D Production Quality Assurance or module E Product Quality Assurance or module F Product Verification of Annex II of the Directive is to be complied with and controlled by a written inspection agreement with a Notified Body.
- 5.2 - For information concerning the production phase modules, **DETECTOMAT SYSTEM** has declared the following manufacturing site(s):

**FARE  
ZA de la Guinette  
Rue duhamel du monceau  
45300 DADONVILLE  
FRANCE**

**6. MARKING OF PRODUCT :**

- 6.1 - Maker's name or trade mark,
  - Serial number of the units,
  - Equipment type number or model identification under which it was type-tested.
  - Standard N°
  - Wiring terminal designation
  - Software version N°
  - Ex marking, as relevant.

6.2 - Reference is made to MED 2014/90/EU chapter 2.

In particular Article 10.3 specifies that the wheelmark shall be followed by the identification number of the Notified Body involved in the production control phase (module D, E or F) and by the year in which the mark is affixed (4 digits or last 2 digits).

**7. OTHERS:**

- 7.1 - It is **DETECTOMAT SYSTEM**'s responsibility to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.
- 7.2 - This certificate supersedes the EC Type Examination Certificate No. 22762/B2 MED issued on 25 Sep 2019 by the Society.

\*\*\* END OF CERTIFICATE \*\*\*