



Marine & Offshore

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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:

OLYMPIA ELECTRONICS

EGINIO - GREECE

for the type of product

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

BSR-6160/MAR and BSR-6157/MAR

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 MSC.1/Circ.1242

EN 54-5:2017 incl. A1:2018

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: 28 Jul 2027


For Bureau Veritas Marine & Offshore Notified Body 2690,

At BV PIRAEUS, on 28 Jul 2022,

Spyros KONTOULIS

This certificate was created electronically and is valid without signature



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 :

BSR-6160/MAR -Analogue addressable rate-of-rise heat detector with integrated short circuit isolator.

BSR-6157/MAR -Analogue addressable optical smoke and rate-of-rise heat detector with integrated short circuit isolator.

1.1 - Main Characteristics of BSR-6160/MAR:

| | |
|-------------------------|-------------------------------|
| Communication Protocol | Olympia A Protocol |
| Main Voltage | 12-30 Vdc |
| Output | Remote LED driver |
| Temperature Sensitivity | Adjustable from 57°C to 120°C |
| Class | A1R/A1S/BS/CS adjustable |
| Operating Temperature | -10°C to 55°C |
| Degrees of protection | IP42 |

1.2 - Main Characteristics of BSR-6157/MAR:

| | |
|-------------------------|---|
| Communication Protocol | Olympia A Protocol |
| Main Voltage | 12-30 Vdc |
| Output | Remote LED driver |
| Temperature Sensitivity | Adjustable from 57°C to 90°C in 1.5°C steps |
| Class | A1R/A1S |
| Operating Temperature | -10°C to 55°C |
| Degrees of protection | IP42 |

2. DOCUMENTS AND DRAWINGS :

OLYMPIA:

- BSR-6157 MAR Technical Characteristics-Installation Process, No. 921615701_09_001.
- BSR-6160 MAR Technical Characteristics-Installation Process, No. 921616001_09_001.
- BSR-6157 MAR Drawings Nos.: 808165501_64_001, 92165700_64_001, 921615700_41_002.
- BSR-6160 MAR Drawings Nos.: 808165501_64_001, 92165500_64_001, 921616000_01_004, 921616000_41_001.
- Fire Risk Analysis Assessment, date 03-08-2021.

3. TEST REPORTS :

EKTOS:

- Type approval test Report No. P21-0069 Rev.1, dated 20-10-2021.

EVPU:

- Test Report No. 0-0052E/21, dated 01-03-2021.
- Test Report No. 9-0053/21, dated 01-03-2021.
- Test Report No. 9-0052/19, dated 16-12-2019.
- Test Report No. 0-0393E/19, dated 16-12-2019.
- Test Report No. 9-0002/1/21, dated 11-01-2021.
- Test Report No. 9-0002/21, dated 11-01-2021.
- Test Report No. 0-0004E/21, dated 11-01-2021.

Labor s.a.:

- IP Test Report No. 0125.024.3.01, dated 06-04-2022.

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 - The equipment is not to be fitted in hazardous areas and refrigerated chambers.
- 4.4 - Hardware successfully tested in compliance with the regulations as referred to in page one, according to the declaration of the manufacturer are covered by this certificate.
- 4.5 - Prior to fit on board, assessment of compatibility or connectability with fire alarm unit is to be performed.
- 4.6 - The following component(s) shall comply with the requirements of MED2014/90/EU, as amended, and be wheelmarked:
- BSR-6160/MAR and BSR-6157/MAR

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, **OLYMPIA ELECTRONICS** has declared the following manufacturing site(s):

OLYMPIA ELECTRONICS
72 KM PEO THESSALONIKI-KATERINI
60300 EGINIO
GREECE

6. MARKING OF PRODUCT :

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 :

It is **OLYMPIA ELECTRONICS**'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.

*** END OF CERTIFICATE ***