

EC TYPE EXAMINATION (MODULE B) CERTIFICATE

This is to certify that:

LLOYD'S REGISTER VERIFICATION LIMITED (LRV), designated as a "notified body" under the terms of the Merchant Shipping (Marine Equipment) Regulations 2016 (S.I. 2016 No.1025), did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the essential Fire protection requirements of Marine Equipment Directive (MED) 2014/90/EU subject to any conditions in the Design Appraisal Document attached hereto.

Manufacturer (Applicant) Address	Olympia Electronics N. Lakasas - P. Arvanitidis S.A. 72klm Old National Road Thessaloniki-Katerini Kolindros Greece
Reference/Regulation Item (No & Item designation)	A.1/3.51 FIXED FIRE DETECTION & FIRE ALARM SYSTEMS COMPONENTS FOR CONTROL STATIONS, SERVICE SPACES, ACCOMMODATION SPACES, CABIN BALCONIES, MACHINERY & UNATTENDED MACHINERY SPACES (g) Short circuit isolators
Product Type	BSR-7070/A/MAR
Product Description	Line Isolator
Specified Standard	EN 54-17:2005/AC:2007, IEC 60092-504 3 rd Ed.: 2001 +Cor1: 2011, IEC 60533:1999 Edition 2.0

The attached Design Appraisal Document (schedule) forms part of this certificate.

This certificate remains valid unless cancelled or revoked, provided the conditions in the attached schedule are complied with and the equipment remains satisfactory in service.

Date of issue 10 March 2017 Expiry date 09 March 2022

Certificate No. MED 1700007 Signed



Sheet No. 1 of 3 Name P. A. Huntley-Hawkins
For and on behalf of Lloyd's Register Verification
LRV EC Distinguishing No. 0038

Note:

This certificate is issued under the authority of the MCA.

This certificate is not valid for equipment; the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify the notified body named on this certificate of any modification or changes to the equipment in order to obtain a valid Certificate.

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Lloyd's
Register

Lloyd's Register Verification Limited

71 Fenchurch Street, London, EC3M 4BS

Telephone 020 7423 2416 Fax 020 7423 2053

Email med@lr.org

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DESIGN APPRAISAL DOCUMENT

Date 10 March 2017	Quote this reference on all future communications SOUTSO/ETS/TA/AAP/PAHH/WP28695042
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ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 1700007

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions and European Union legislation for the EC Type Examination of Marine Equipment for use on Merchant Ships Registered in the European Economic Area.

This Design Appraisal Document (schedule) forms part of the Certificate.

APPROVAL DOCUMENTATION

<u>Document No.</u>	<u>Rev</u>	<u>Title</u>	<u>Date</u>
921707002_09_002	-	BSR-7070/A/MAR Line Isolator Manual/ Schematic diagrams	-
DE 16/819942507	30/05/2016	ISO 9001:2008 OLYMPIA ELECTRONICS Certificate	-
07-3	-	Accreditation Certificate for HEEQAC S.A.	04 Aug 2015
-	-	Declaration by OLYMPIA ELECTRONICS N. Lakasas – P. Arvanitidis SA	08 Mar 2017

TEST REPORTS

<u>Document No.</u>	<u>Rev</u>	<u>Title</u>	<u>Date</u>
504105-2-E	-	Type Testing of line isolator in accordance with EN 54-17:2005/AC:2007	04 Apr 2016
504170-1-E	-	Type Testing of line isolator in accordance with IEC 60092-504 3 rd Ed.: 2001 +Cor1: 2011, IACS E10 Rev. 6 Oct. 2014	15 Mar 2016
504170-2-E	-	Type Testing of line isolator in accordance with IEC 60092-504 3 rd Ed.: 2001 +Cor1: 2011, IACS E10 Rev. 6 Oct. 2014, IEC 60533:1999 Edition 2.0	15 Mar 2016

CONDITIONS OF CERTIFICATION

1. Production items are to be manufactured in accordance with either an approved Production Quality Assurance system (Module D) or Product Quality Assurance (Module E) or Product Verification (Module F) of the Marine Equipment Directive. The wheelmark cannot be affixed to the product until a conformity assessment module is in place
2. Each item, batch or lot of the equipment is to be issued with a "Declaration of Conformity" and have the "Mark of Conformity" affixed after a conformity assessment module is in place.
3. If the specified standards are amended during the validity of this Certificate, this product type is to be reapproved prior to it being supplied to vessels to which the amended standards apply.
4. Should a change of Place of Production from that stated below be required, i.e. where the final stages of manufacture/assembly/testing of this product take place, the new Place of Production is to be advised to us prior to the change taking place. This Certificate will require to be updated for Approval to be maintained.



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5. **Installation on board:** The arrangements and installation of the indicators on board the vessel are not part of this design appraisal and certificate. All such arrangements are to be to the satisfaction of the Surveyors attending on board; the fitting of the indicators to be in accordance with the manufacturer's instructions and any additional requirement of the State whose flag the vessel is entitled to fly.

PLACE OF PRODUCTION

Olympia Electronics
N. Lakasas - P. Arvanitidis S.A.
72km Old National Road
Thessaloniki-Katerini
Kolindros
Greece



P.A. Huntley-Hawkins
Southampton Technical Support Office
For and on behalf of Lloyd's Register Verification
LRV EC Distinguishing No. 0038