



Confirmation of Type Approval

This is to certify that, pursuant to the Rules of American Bureau of Shipping (ABS), on 28/JUL/2008 the manufacturer of the below listed product held a valid Manufacturing Assessment (MA) and a valid Product Design Assessment (PDA) for the below listed product, entitling the product to type approval. The validity of the Manufacturing Assessment is dependent on satisfactory audits as required by the Rules. The Product Design Assessment is valid only for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product.

For Date of ABS Rules used for evaluation; Please refer to the ABS Rules below.

This Confirmation of Product Type Approval is valid as of the date shown above for the below listed product.

*ABS makes no representations regarding type approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for evaluation.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that the Client has full responsibility for continued compliance with the evaluation standard, whether the standard is an ABS Rule or a non-ABS Rule. As specified in the ABS Rules, Unit Certification may be required in addition to Product Type Approval. Please refer to the "Service Restrictions" shown below to determine if Unit Certification is required for this product.

ELECTRONSTANDART-PRIBOR Model Name(s): IPES IR/UV Flame Detector

Presented to:

ELECTRONSTANDART-PRIBOR
35/2, SLAVY AVENUE
ST. PETERSBURG
192286
Russian Federation

Intended Service:

The IPES is an IR/UV Flame Detector that may be used separately as an independent device or with a compatible approved control panel.

Description:

IPES is designed to respond to IR and UV radiation simultaneously in flaming fires providing alarm outputs as analog (4-20mA), digital (RS-485/Modbus) or relay signals.

Ratings:

24V DC (18-32V DC, max ripple amplitude 1.0V) Hazardous (Classified) Location rating: Explosionproof for Class 1, Division 1, Groups B, C and D, T4 Ta = -40 degree C to +85C; IP66

Service Restrictions:

Not applicable

Comments:

Each installation is to be specifically approved.

Notes / Documentation:

This Product Design Assessment (PDA) is valid only for products intended for use on ABS classed vessels, MODUs or facilities which are in existence or under contract for construction on the date of the ABS Rules used to evaluate the Product. FM Approvals Certificate of Compliance/Report No. 3028847; FM Approvals IECEx Certificate of Conformity No. FMG 08.0002 and Technical Report No.s US-FMG-EXTR08-0004-00/and -01; TUV Rheinland Certificate No. MK 2792531 01 and Report No. 28204009 001, TUV Rheinland Certificate of Conformity No. M5 2792368 01 and Report No. 28204010 001; Testing Centre of Russian Scientific Research Institute Report No.s 43, 63 and 60304; Nemko EC Type Examination Certificate No. 06ATEX1219X and Test Report Order No. 69651

Term of Validity:

This Design Assessment Certificate number 08-LD337494-PDA, dated

28/May/2008 will expire on 27/May/2013 or at an earlier date should there be alterations to the product's design or changes to the referenced ABS Rules and other specifications, which affect the product. Product use on or after 1 January 2009, will be subject to compliance with the ABS Rules or specifications in effect when the vessel, MODU or facility is contracted. The product's acceptability on board ABS-classed vessels or facilities is defined in the service restrictions of this certificate.

ABS Rules:

2008 Steel Vessel Rules 1-1-4/7.7, 4-7-3/11.5.1, 4-8-3/13

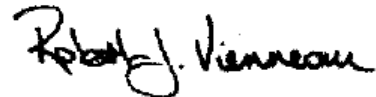
National Standards:

International Standards:

Government Authority:

EUMED:

Others:



Manager, ABS Programs

ABS has used due diligence in the preparation of this certificate and it represents the information on the product in the ABS Records as of the date and time the certificate was printed. Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. Limited circumstances may allow only Prototype Testing to satisfy Type Approval. The approvals of Drawings and Products remain valid as long as the ABS Rule, to which they were assessed, remains valid. ABS cautions manufacturers to review and maintain compliance with all other specifications to which the product may have been assessed. Further, unless it is specifically indicated in the description of the product, Type Approval does not necessarily waive witnessed inspection or survey procedures (where otherwise required) for products to be used in a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS. Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.