



Marine & Offshore

Certificate number: 09124/E0 BV

File number: AP 3116

Product code: 3704I

This certificate is not valid when presented without the full attached schedule composed of 7 sections

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

INELTEH d.o.o.

Rijeka - CROATIA

for the type of product

LEVEL MONITORING / ALARM SYSTEMS

High Level and Overfill Alarm System

Type: ITHLA

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships.
EN 60079 Series.

This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 04 Oct 2026

For Bureau Veritas Marine & Offshore,

At BV RIJEKA, on 04 Oct 2021,

Slaven Celic



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. 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 electronic version is available at: <http://www.veristarm.com/veristarnb/jsp/viewPublicPdfTypepec.jsp?id=15cxvp9hfa>

BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

- Product model or type designation :

Type **ITHLA**

- Product description:

High Level and Overfill Alarm System, including:

- magnetic level switches type ITHLA-1 or ITHLA-1/C (single point alarm)
- magnetic level switches type ITHLA-2 or ITHLA-2/C (double point alarm)
- magnetic level switches type ITHLA-1/D (single point alarm)
- magnetic level switches type ITHLA-2/D (double point alarm)
- electronic cabinet with alarm units type ITDAC-14B and intrinsically safe isolators
- rectifier unit
- relay unit
- output light ITFL-Ex , covered by Bureau Veritas type approval certificate 63872/xx BV
- acoustic device

- Firmware Version: V2.05

2. DOCUMENTS AND DRAWINGS:

- High and overfill alarm system documentation - High0vf ITHLA
- Manufacturer Declaration Simple Apparatus Level Switch ITHLA-1/C & ITHLA-2/C, dated Jul 2, 2013
- Data Sheet Magnetic level switch ITHLA-2(1)/C Ref.: ITHLA-1(2)-C, rev2, dated Jun 5, 2012
- Data sheet ITHLA-x-D-2021 rev 1.0, dated 2021-01-21
- Data sheet DTS0023-18
- Data sheet INELTEH for ITFL-Ex flashing light dated 09.04.2020

3. TEST REPORTS:

EC-Type Examination Certificates:

Equipment	Certificate	Ex Protection (EN 60079-x)
Isolator: D1031Q	EXAM/DEKRA: No. DMT 01 ATEX E 042 X (2019-01-09)	Gas: [Ex ia] IIC
Optical Beacon: ITFL-Ex	IECEX SIQ 20.0004X issue 0 dated 2020-07-03	Gas: Ex db IIC T6...T3 Gb

KONCAR:

- Corrosion resistance test report Ref.: 51-09714, dated Jul 2, 2014
- Vibration test report 21584VIB20013 dated 29.09.2020
- EMC test report 21583EMC21034 dated 30.6.2021

INELTEH:

- Cold test report Ref.: CT-Cold-1403-001, dated Mar 7, 2014 - witnessed by BV Surveyor
- Damp heat test report Ref.: CT-Heat-1403-001/A, dated Mar 13, 2014 - witnessed by BV Surveyor
- Dry heat test report Ref.: CT-Heat-1403-001G, dated Mar 13, 2014 - witnessed by BV Surveyor
- Test report PT-Performance-2101-002 dated 14/01/2021
- Test report PT-Performance-2101-001 dated 14/01/2021

4. APPLICATION / LIMITATION:

4.1 - BUREAU VERITAS Rules and Regulations for the Classification of Steel Ships.

4.2 - 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.

4.3 - To be compatible with the intended cargoes.

4.4 - Equipment covered by this Type Approval certificate has been tested according to requirements of IACS UR E10 rev 7.

4.5 - As indicated in § 1, ITFL-Ex flashing light has to be covered by a valid type approval certificate, issued by the Society.

4.6 - Hardware and Firmware / Software are to be successfully tested together in compliance with the regulations as referred to in page one according to the declaration of the manufacturer.

4.7 - In accordance with IACS UR E22 and as applicable to programmable devices for computer based systems of Category II or III, for each ship application :

- Ship specific documentation is to be submitted including software documentation and categorization of the computer based system.

- Inspection and testing before installation onboard is to be performed under the surveillance of the Society.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The above products are to be supplied by **INELTEH d.o.o.** in compliance with the type and the requirements described in this certificate.

5.2 - This type of product is within the category IBV of Bureau Veritas Rule Note NR320.

5.3 - BV product certificate is required.

6. MARKING OF PRODUCT:

- Maker's name or trademark.

- Serial number of the units.

- Equipment type number or model identification under which it was type-tested.

- Ex marking as relevant.

7. OTHERS:

7.1 - It is **INELTEH d.o.o.** 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 Type Approval Certificate No. 09124/D0 BV issued on 24 Aug 2016 by the Society.

*** END OF CERTIFICATE ***