



# TYPE APPROVAL CERTIFICATE



N. ELE042819CS

This is to certify that the product below is found to be in compliance with the applicable requirements of the RINA type approval system.

<b>Description</b>	Alarm system for high and very high level in cargo tanks
<b>Type</b>	ITHLA
<b>Applicant</b>	INELTEH d.o.o. Ljubljanska Cesta, 7 HR_51000 Rijeka CROAZIA
<b>Manufacturer</b>	INELTEH d.o.o. Ljubljanska Cesta, 7 HR_51000 Rijeka CROAZIA
<b>Testing Standards</b>	Rules for Classification of Ships - Part C - Machinery, Systems and Fire protection- Ch. 3 Sect. 6 Table 1.

Issued in Genova on March 12, 2019

This certificate is valid until March 12, 2024

RINA Services S.p.A.

*Valerio Bonanni*





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## ITHLA Series High and very high level alarm system consisting of:

Level alarm units type ITDAC-14B

- Power supply: 24Vac/dc
- 8 analog inputs
- Common relay alarm output  
Sw. version 2.05

Magnetic level switch type ITHLA-1 \_ single point alarm, with protection tube

Magnetic level switch type ITHLA-2 \_ double point alarm, with protection tube

Magnetic level switch type ITHLA-1/C \_ single point alarm, without protection tube

Magnetic level switch type ITHLA-2/C \_ double point alarm, without protection tube

Body and float materials: AISI 316L

Max. working temperature: 90°C

Max. working pressure: 4 bar

### Reference documents:

INELTEH technical description: High and Overfill alarm system (file High OvF description 3)

Comparison of magnetic level switches type ITHLA-1(2) and ITHLA-1(2)/C

### Test Report:

Slovenian Institute of Quality and Metrology test report n° T231-0657/97

Inelteh test report TR1-ITHLA-2

Inelteh Power supply variation report n. 03142623 (16/07/2014)

Koncar EMC report n. 21580181102 (2002/11/18)

Koncar EMC report n. 21584VIB17014 (2017/12/29)

LGA EMC report n. 23423 RP1 (2003/10/10)

### General Remarks:

- The alarm unit ITDAC-14B is not to be installed on the bridge areas since there is not evidence that radiated and conducted electromagnetic emission limits, according to EN 60945 in force, are complied with.
- Installation in hazardous areas is to be in accordance with the safety parameters as reported in the relevant Ex Type Examination Certificates.
- High level and overfill alarms are to be electrically independent each other.
- Sensors heads mechanical protection IP Certificate (IEC 60529) shall be available on request.