CROATIAN REGISTER OF SHIPPING

Certificate No. **03-002271**/*031996*

TYPE APPROVAL CERTIFICATE

This is to certify that this product complies with the Rules for the classification of ships, Part 1 - General requirements, Chapter 3 - Type approval of products.

TYPE AND DESCRIPTION OF PRODUCT:

SIGNALING AND CONTROL DEVICES

ITS-xx-ER, ITS-Ex, ITS-xx-CR, ITFL, ITFL-Ex, ITES, ITES-7I and ITCU

MANUFACTURER:

INELTEH d.o.o.
Ljubljanska cesta 7
51000 Rijeka
HRVATSKA - *CROATIA*

THE PRODUCT MEETS FOLLOWING RULES/REGULATIONS:

CRS RULES FOR THE CLASSIFICATION OF SHIPS, PART 12 - ELECTRICAL EQUIPMENT

IMO Resolution A.1021(26).

FURTHER DETAILS OF THE PRODUCT AND CONDITIONS FOR CERTIFICATION ARE GIVEN OVERLEAF.

APPROVAL IS VALID UNTIL: **2030-10-01**

Place and date: Split, 2026-10-02 **Seal**

Marinko Popović, dipl.ing.

NOTE: 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 Croatian Register of Shipping of any modification or changes to the product in order to obtain a valid certificate.

DETAILED PRODUCT DESCRIPTION:

The Engine Room Signalling System is used to warn personnel upon hazardous situation and/or to give information about different signals in the areas with high ambient noise levels. The system consists of light column type ITS-xx-ER, ex-proof light column type ITS-Ex, light panel type ITS-xx-CR, flashing lights type ITFL, ex-proof flashing lights type ITFL-Ex, electronic sirens type ITES and ITES-7I, and control unit type ITCU.

Light columns type ITS-xx-ER	
Power supply	230/115VAC, 50/60Hz or 24VDC
Type of alarm inputs	N.O. voltage-free contacts
Type of indicator lights	LED 24VDC
Degree of protection	IP54
Operating temperature	-25°C to 70°C
Light columns type ITS-Ex	
Power supply	230/115VAC, 50/60Hz or 24VDC
Type of alarm inputs	N.O. voltage-free contacts
Type of indicator lights	LED 24VDC
Degree of protection	IP66
Operating temperature	-25°C to 65/70°C
Code of Ex protection	ExII 2G Ex db IIC T6...T5 Gb
Flashing light type ITFL	
Power supply	230/115VAC, 50/60Hz or 24VDC
Degree of protection	IP54
Operating temperature	-25°C to 55°C
Flashing light type ITFL-Ex	
Power supply	230/115VAC, 50/60Hz or 24VDC
Degree of protection	IP66
Operating temperature	-20°C to 40/50°C
Code of Ex protection	
Electronic siren type ITES/ ITES-7I /ITES-7I-Ex	
Power supply	230/115VAC, 50/60Hz or 24VDC
Degree of protection	IP54 / IP66
Operating temperature	-25°C to 55°C
Code of Ex protection	ExII 2G Ex db eb IIC T6...T3 Gb
Light panel type ITS-xx-CR	
Power supply	24VDC
Type of indicator lights	LED
Degree of protection	IP20
Operating temperature	-25°C to 70°C
Control unit type ITCU	
Power supply	230/115VAC, 50/60Hz or 24VDC
Degree of protection	IP55
Operating temperature	-25°C to 70°C

APPLICATION / LIMITATIONS:

The system is approved for use on ships according to the CRS Rules for the classification of ships.

TYPE APPROVAL DOCUMENTATION:

Technical documentation:

Engine Room Signalling System Type Approval Documentation No. ERSIGN-01 01122020,
ER Signalling System Technical Documentation,
ER Signalling System Components,
Inelteh interpretation No. ITS-xx-CR-vibro-2021,
EU Type Examination Certificate No. FIDI 20 ATEX 0038X,
EU Type Examination Certificate No. SIQ 19 ATEX 133X,
IECEx Certificate of Conformity No. IECEx SIQ 20.0004X,
EU Type Examination Certificate No. PRESAFE 18 ATEX 13498X,
EC Type Examination Certificate No. NEMKO 10 ATEX 1053X.

Test reports:

Končar power supply test report No. 21583EMC18123, dated 2018-12-19,
Inelteh power supply test report No. ST-PowerSupply-1910-001, dated 2019-10-17,
Inelteh HV test report No. ST-High voltage-1910-001, dated 2019-10-17,
Inelteh dry heat test report No. CT-DryHeat-1607-003, dated 2016-07-12 – 2016-07-13,
Inelteh damp heat test report No. CT-Humidity-1607-003, dated 2016-07-13 – 2016-07-15,
Inelteh cold-test test report No. CT-Cold-1607-003, dated 2016-07-18,
Končar climatic test report No. 51-02319, dated 2019-01-29,
Končar vibration test report No. 21584VIB19001, dated 2019-01-28,
Končar vibration test report No. 21584VIB20014, dated 2020-10-13,
Končar vibration test report No. 21584VIB19002, dated 2019-01-28,
Končar vibration test report No. 21584VIB18022, dated 2018-11-19,
Končar vibration test report No. 21584VIB20015, dated 2020-10-13,
Končar IP rating test report No. 21572/239, dated 2001-03-13,
Končar EMC test report No. 21583EMC16031, dated 2016-06-20,
MUP Ex test report No. 19 TR 0019, dated 2019-07-12,
MUP Ex test report No. 20 TR 0021, dated 2020-09-04,
SIQ Ex test report No. TEx031/20, dated 2020-01-30,
Inelteh climatic test report No. TR008-2021, dated 2021-10-08,
Inelteh power supply test report No. TR009-2021, dated 2021-10-21,
Končar EMC test report No. 21583EMC21045, dated 2021-07-08,
Končar EMC test report No. 21583EMC21044, dated 2021-08-18.

MARKING OF PRODUCT:

In accordance with IEC60945 – Marking and identification:
(The Manufacturer name and Type Designation of the product, serial number, date of manufacture, supply voltage, other particulars and software version…).

CONDITIONS FOR CERTIFICATION:

All changes are to be forwarded to CRS for evaluation and approval before being installed.