Certificate No: LR2106836TA
Issue Date: 22/12/2020
Expiry Date: 15/02/2025

# Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

| | |
|---|---|
| **Manufacturer** | **WÄRTSILÄ APSS SRL** |
| **Address** | Via San. Sebastiano, 16, Diano D'Alba (Cn), 12055, Italy |
| **Type** | Switches - Control |
| **Description** | Three ways optoisolated decoupler and RS485 serial line short circuit protection based on CPLD technology |
| **Trade Name** | SMART-RS485 Switch |
| **Application** | Marine use in Enviroment Categories ENV1, ENV2 and ENV3 as described on Lloyd's Register Test Specification N°1:2019. |
| **Specified Standard** | Manufacturer's Technical Specification |
| **Ratings** | Power Supply: 24VDC<br>Core Device: CPLD XC9536XL<br>Safety insulate two or more RS485 ports working as a de-coupler |

This certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

**Previous Version:** 15/00009(E2)

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**Maurizio Crucil**

TTSO Senior Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group

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# Type Approval Certificate

The Design Appraisal Document LR2106836DA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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