



Certificate No. 03-002202/031768

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:

Marine Propulsion Engine Remote Control System

TotalCommand

MANUFACTURER:

ZF Padova S.r.l.
Via Penghe, 48
35030 CASELLE DI SELVAZZANO (PD)
ITALY

THE PRODUCT MEETS FOLLOWING RULES/REGULATIONS:

Croatian Register of Shipping: Rules for the classification of ships

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

APPROVAL IS VALID UNTIL: **2030-03-01**

Place and date: **Split, 2026-03-02**

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:

ZF TotalCommand is a remote-control system for engine throttle and transmission from multiple stations. Marine engines are controlled by CAN (J1939), analogue signals (mA, vdc, pwm) or mechanical cables. Marine transmissions are controlled by hydraulic solenoid valves (on/off and proportional) or mechanical cables.

ZF TotalCommand system consists of:

Product	Part Number	Software version
Processor	3340.309.001	3340.327.104
Lever (grey frame)	3341.012.002	3341.227.003
Lever (black frame)	3341.012.003	3341.227.003
Joystick	3341.011.002	3341.227.004
Joystick (total black)	3341.011.003	3341.227.004
Display	3341.007.015	3341.327.036
Junction box	3340.008.041	
Auxiliary interface (CAN to analog)	3340.008.048	3340.227.003
CAN to Mech	3340.008.053	
MCU	3340.005.018	3340.327.125
Accessories		
Compass	0659.100.985	
Alarm Module	0501.333.436	
GPS	0501.333.447	
APS	3340.221.001	

APPLICATION / LIMITATIONS:

The approval is valid for twin-engine installation with maximum of 6 control stations. Documentation approval is required for each installation onboard the vessel. Correct configuration and set up for each delivery to be tested under the supervision of a Society Surveyor. Approval is also valid for ships to be granted with class notations: AUT 1, AUT 2 and AUT 3.

TYPE APPROVAL DOCUMENTATION:

Approved by the Croatian Register of Shipping with letter No. 603/TSE/NP/031768 dated 2026-03-02 and stored in the CRS case file 13.01/031768.

MARKING OF PRODUCT:

The Manufacturer and Type Designation of the product, serial number, date of manufacture, safe distance to magnetic compass, supply voltage, software version...

CONDITIONS FOR CERTIFICATION:

Major changes in the hardware and software are to be approved before being installed on the vessel. All changes in hardware or software are to be recorded as long as the system is in use on board. The records of all changes are to be forwarded to CRS for evaluation and approval.