Certificate No: LR2692205TA
Issue Date: 10/03/2026
Expiry Date: 03/12/2030

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	**NORIS Automation GmbH**
Address	Friedrich-Barnewitz-Strasse 10, Rostock, 18109, Germany
Type	Control Systems - Speed And S.H.P.S
Description	Control Lever System Azimuth Refer to the Appendix for further details.
Trade Name	NORISYS LA4
Application	Marine applications for use in environmental categories ENV1, ENV2, ENV3 and ENV5 as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 – 2002.
Specified Standard	Manufacturer´s specification IACS unified requirements E10 (Rev.9 Aug 2023)
Ratings	Supply voltage: 24 VDC Degree of Protection: IP56 on front side
Additional Tests	Mechanical shock test: 15g, 11ms Number of load planes: 6 (±X, ±Y and ±Z)

Thorsten Wolff

Electrical & Control - Senior Specialist to
Lloyd's Register EMEA
A member of the Lloyd's Register group

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

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Number of shocks per load plane: 3

Other Conditions Final functional arrangements are to comply with appropriate Lloyd's Register Rules and will be subject of the Plan Approval process, if applicable.

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: LR2110442TA

The Design Appraisal Document TSO-25-050223/TW and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Appendix

TYPES LA4①②③④⑤⑥⑦⑧⑨

① Scale Orientation:	-FWD	Forward oriented installation
	-AFT	Astern oriented installation
② Rotary Scale:	-180	Scale marking for 90° in cw/ccw, turning range of 180°
	-360	Scale marking for 180° in cw/ccw, endles turning range (360°)
③ Control Head Scale:	/0-10	
	/10-0-10	
④ Control Head Scale Subdesign:		free if no extra scale design is used
	-ORD1	Scale design with order steps (MAX. AHEAD, FULL AHEAD, HALF AHEAD, SLOW AHEAD, DEAD SLOW AHEAD, ZERO, DEAD SLOW ASTERN, SLOW ASTERN, HALF ASTERN, FULL ASTERN, MAX. ASTERN)
⑤ Signal Processing	-E1	Signal processing electronic, 2 x CANbus, 2 x 4 … 20 mA OUT, 2 x Digital IN, 1 x PWM IN, LED band
	-E2	Signal processing electronic, 2 x CANbus, 1x RS-485 1 x Digital IN, 1x Digital OUT, 1 x PWM IN, LED band
⑥ Illumination	-IL4	Rotation scale illumination and alignment cross
	-IL5	Control head / Rotation scale with scale illumination and position indicator
⑦ Options	-ESS	Electrical shaft system
	-MLP	Mechanical lock points (not applicable with ESS option)
⑧ Layout	-192x192	Built in size at console
	C	customer variant (e.g. spec. Arrangement of scales for AFT lever)
⑨ Lock Points	n…/m… position of lockpoints (e.g. 20-0-20/180)	

Software Version for all Levers: 2.11.01

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