



Marine & Offshore

Certificate number: 36654/B0 BV

File number: AP4499

Product code: 4201H

*This certificate is not valid when presented without the full attached schedule composed of 7 sections*

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## TYPE APPROVAL CERTIFICATE

*This certificate is issued to*

**NORIS Automation GmbH**

Rostock - GERMANY

*for the type of product*

**ENGINE TELEGRAPHS**

LA4 series

**Requirements:**

Bureau Veritas Rules for the Classification of Steel Ships

EC Code: 41BS, 31BS

*This certificate is issued to attest that Bureau Veritas Marine & Offshore did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.*

**This certificate will expire on: 22 Sep 2026**

**For Bureau Veritas Marine & Offshore,**

At BV HAMBURG, on 22 Sep 2021,

Dirk Hoefner



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with Bureau Veritas Marine & Offshore. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of Bureau Veritas Marine & Offshore available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against Bureau Veritas Marine & Offshore for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

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BV Mod. Ad.E 530 June 2017

This certificate consists of 3 page(s)

## THE SCHEDULE OF APPROVAL

### 1. PRODUCT DESCRIPTION:

The **LA4** series is a control lever for azimuth propulsion plants for mounting into a desk or console.

#### **1.1 - Main characteristics:**

Power supply: 24V DC  
 Degree of protection: IP56 (front); IP10 (rear)  
 Software version: 2.00.00

Type Code: LA4 **a b c d e f g h**

<b>a</b>	Scale orientation	FWD: Forward oriented installation AFT: Astern oriented installation
<b>b</b>	Rotary scale	180: Scale marking for 90° in CW/CCW, turning range of 180° 360: Scale marking for 180° in CW/CCW, endless turning range (360°) C: Customer-specific scale and turning range, e.g. ± 35°
<b>c</b>	Scale design	/0-10 /10-0-10
<b>d</b>	Scale subdesign	ORD: Scale design with order steps
<b>e</b>	Signal processing	E1: Signal processing electronic, 2xCANbus 2x 4..20mA OUT, 2x Digital IN, 1x PWM IN, LED band E2: Signal processing electronic, 2xCANbus, 1x RS-485 1x Digital IN, 1x Digital OUT, 1x PWM IN, LED band
<b>f</b>	Illuminaton	IL4: Rotation scale illumination and alignment cross IL5: Control head/Rotation scale with scale illumination and position indicator
<b>g</b>	Options	ESS: Electrical shaft system MLP: Mechanical lock points (not applicable with ESS option)
<b>h</b>	Layout	192x192

### 2. DOCUMENTS AND DRAWINGS:

- 092.037.03.100.A dated 21.06.2013; 092.037.03.407.A dated 03.05.2013  
 - NAR-KD-0111-1-en Vers. 1.17 dated 07.03.2014; NAR-PD-0111-1-en Vers. 1.00 dated 14.02.2014

For B0 Version:

- 092.037.03.100.A dated 04.12.2014; NAR-KD-0111-1-en Vers. 1.23 dated 27/11/19  
 - SAR45-h dated 05.05.2017; SAR46-e dated 09.11.2017; SAR60-E dated 17.08.12; SAR85-b dated 29.01.2018  
 - SAR86-e dated 22.05.2017, SAR98-b dated 09.11.2016; NAR-PD-0111-51-en Vers..1.00 dated 05/09/19  
 - SAR88-b dated 20.06.13; SAR88-d dated 15.12.2015

### 3. TEST REPORTS:

- TREO - Labor für Umweltsimulation GmbH: 288-13 dated March 7, 2014; 019-14 dated February 28, 2014;  
 023-14 Ver. 2 dated April 29,2014; 255-13 dated November 13,2013  
 - Teseq GmbH: D/13/4085/11 dated 2014-02-07  
 - Noris Automation GmbH: NAR-PB-0111-2-en Ver. 1.06 dated 2014-05-05  
 - TÜV Rheinland LGA Products GmbH: 21215783 001 dated 23.04.2014

For B0 Version:

- AMETEK CTS Europe GmbH: D/20/4789/01 dated 2021-05-12; D/20/4790/01 dated 2021-05-11  
 - TREO - Labor für Umweltsimulation GmbH: 114-17 dated 19-May-17; 173-19 dated 2019-07-05  
 - Teseq GmbH: D/14//4269/01 dated 2015-11-10

### 4. APPLICATION/LIMITATION:

4.1 - Bureau Veritas Rules and Regulations for the Classification of Steel Ships.

4.2 - Approval valid for ships intended to be granted with the following additional class notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**

4.3 - Bureau Veritas Environmental Category, **EC Code: 41BS, 31BS**

4.4 - Equipment covered by this Type Approval certificate has been tested according to requirements of IACS UR E10 rev7.

4.5 - In accordance with IACS UR E22 and as applicable to programmable devices for computer based systems of Category II or III, for each ship application:

- Ship specific documentation is to be submitted including software documentation and categorization of the computer based system.

- Inspection and testing before installation onboard is to be performed under the surveillance of the Society.

4.6 - Only Hardware and Firmware / Software successfully tested together in compliance with the regulations as referred to in page one, according to the declaration of the manufacturer is covered by this certificate.

**5. PRODUCTION SURVEY REQUIREMENTS:**

5.1 - The above mentioned products are to be supplied by **Noris Automation GmbH** in compliance with the type described in this certificate.

5.2 - This type of product is within the category HBV of Bureau Veritas Rule Note NR320 and as such does not require a BV product certificate.

5.3 - **Noris Automation GmbH** has to make the necessary arrangements to have its works recognised by Bureau Veritas in compliance with the requirements of NR320 for HBV products:

**Noris Automation GmbH  
Friedrich Barnewitz Strasse 10  
18119 Rostock  
GERMANY**

**6. MARKING OF PRODUCT:**

- Maker's name or trade mark.
- Equipment type or model identification.
- Date of manufacture and/or serial number.

**7. OTHERS:**

7.1 - It is the responsibility of **Noris Automation GmbH** to inform shipbuilders or their sub-contractors of the proper methods of fitting, use and general maintenance of the approved equipment and the conditions of this approval.

7.2 - This certificate supersedes type approval certificate N° BV 36654/A0 issued on 23 May 2014.

\*\*\* END OF CERTIFICATE \*\*\*