



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	Kobelt Manufacturing Co. LTD
Address	8238 - 129th Street, Surrey, BC V3W0A6, Canada
Place of Production	Kobelt Manufacturing Co. LTD 8238 - 129th Street, Surrey, BC V3W0A6, Canada
Type	Digital Steering Controller (Model 6300-0100) Digital Steering Station (Model 6300-0200) Electronic Helms (Model 6301-0100)
Description	Steering and Engine Control Equipment
Trade Name	Kobelt Digital Steering System
Application	Digital Steering Controller (Model 6300-0100) for use in environmental categories ENV1, ENV2, ENV3 and ENV4 as defined in Lloyd's Register Test Specification No.1, December 2021. Digital Steering Station (Model 6300-0200) and Electronic Helms (Model 6301-0100) for use in environmental categories ENV1, ENV2, ENV3 and ENV5 as defined in Lloyd's Register Test Specification No.1, December 2021.
Specified Standard	Lloyd's Register Test Specification No.1, December 2021

Yongchang Cai

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

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Ratings	See Appendix.
Additional Tests	Low Temperature Test: -25°C
Other Conditions	<p>Installation of this equipment for marine applications is to be in accordance with the Rules and Regulations for the Classification of Ships.</p> <p>Immunity to Conducted High Frequency Interference and Radiated Emissions meet the requirement for equipment in bridge and deck zones.</p> <p>Power line filter (Schaffner PN: FN2010-10-06) or equivalent is required for Conducted Emission of this equipment to meet the requirement for equipment in bridge and deck zones.</p>

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 Canada Limited of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document LR2482046TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.



ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR2482046TA

Appendix

Ratings:

1. Digital Steering Controller (Model 6300-0100)
 - Operating voltage: 2 - 32 VDC
 - Operating current: 0.4 - 0.2 A
 - Valve operating voltage: 12 - 32 VDC
 - Product weight: 0.3 kg [0.68 lbs]
 - IP rating: IP20
2. Digital Steering Station (Model 6300-0200)
 - Operating voltage: 10 - 32 VDC
 - Operating current: 0.35 - 0.7 A (w/o Wheel), 1.35 - 1.7 A (w/ Wheel)
 - Product weight: 0.65 kg [1.44 lbs]
 - IP rating: IP56 (above console), IP20 (below Console)
3. Electronic Helms (Model 6301-0100)
 - Tactile feedback: 14.8 ft-lbs [20Nm] (max)
 - Operating speed: 120 rpm (max)
 - Output: 14 bit
 - Connection: CANbus
 - Termination: two 5 pin – M12 connectors
 - Supply voltage: 9-36 VDC
 - Power requirement: 17 W (max)
 - Ingress protection: IP66
 - Weight: 10 lbs [4.5 kg]



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Certificate No:	LR2482046TA
Issue Date:	04/07/2024
Expiry Date:	03/07/2029
Reference:	TSO/23-005236

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