



中国船级社
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.
GB24PTB00057

型式认可证书
CERTIFICATE OF TYPE APPROVAL

兹证明本证书所述制造厂具备按照下列标准的要求生产本证书所列产品的能力和条件。

This is to certify that the manufacturer stated in the certificate meets the requirements of the standards listed below and is available with the ability and conditions to produce the products described in the certificate.

制造厂/Manufacturer

DEIF A/S

地址/Address

Frisenborgvej 33, DK-7800 Skive, DENMARK

产品名称/Product

电子指示器
Electrical Indicators

认可标准/Approval Standard

1. 中国船级社《钢质海船入级规范》第4篇第1、3章
Chapter 1 and 3, Part Four of China Classification Society Rules for the Classification of Sea-going Steel Ships

用于/Intended for

船舶与海上设施/Ships and Offshore Installations



证书有效期至/This Certificate is valid until 2029年11月25日/ Nov. 25,2029

发证机构 中国船级社哥本哈根办事处
Issued by CCS Copenhagen Office

签发日期 2025年02月17日
Date Feb. 17,2025

本证书根据中国船级社规范和相关规定签发。所有证书页为一个整体，必须同时使用。纸质证书每页均须由本社盖章方为有效，电子证书含数字签名方为有效，本证书复印件无效。任何单位和个人均不应摘录或节选本证书的部分内容。有关方对所持证书的真实性有疑问时，可以向本社检验机构咨询。本证书凡是未注明版本的规范，其（发证时）最新版本适用于本证书。
This Certificate is issued pursuant to the Rules of the Society and related regulation. All pages of the certificate are taken as a whole and are used simultaneously. No paper certificate page is valid without bearing the stamp of the Society, no electronic certificates is valid without the digital signature, and no copied form of the certificate is regarded as valid. Any part of the certificate is not to be extracted or abridged by any unit or individual in any form. Related parties who are doubted about the authenticity of the certificate may inquire of the Society or its offices. **For Rules with no version indication, their latest version (at the time of issuance of the certificate) applies to the this certificate.**



Form No: T01.

联系方式/Contact Us, 见本社官方网站/See official web site of the Society (<http://www.ccs.org.cn>)

UTN:P024-02504616

产品明细/Product Description

现场仪表/Instrument (M0001)

名称/Name	属性 (值) /Value	单位/Unit
产品型号/Type	Illuminated Indication Instruments XL (72, 96, 144, 192), BW144, BW192, BRW-2, XDi (96, 144, 192),	
精度/Accuracy	See Additional Page	

批准的图纸/Approved Drawings

图纸批准号/ Drawings Approval No. : GB16A00024_02

产品认可试验报告/ Approval Test Report

试验报告编号/ Test Report No. : DANAK-1910190/1910191

试验报告日期/ Test Report Date : 2008-06-12

试验报告编号/ Test Report No. : IPA No. 182 &220

试验报告日期/ Test Report Date : 2008-08-18

试验报告编号/ Test Report No. : DANAK-1910397

试验报告日期/ Test Report Date : 2009-01-27

试验报告编号/ Test Report No. : IPA No. 293

试验报告日期/ Test Report Date : 2009-09-01

试验报告编号/ Test Report No. : DANAK-19/12974

试验报告日期/ Test Report Date : 2013-04-11

试验报告编号/ Test Report No. : DANAK-19/13130

试验报告日期/ Test Report Date : 2013-06-06

试验报告编号/ Test Report No. : IPA0340-01

试验报告日期/ Test Report Date : 2015-04-07

试验报告编号/ Test Report No. : IPA0375-01

试验报告日期/ Test Report Date : 2015-09-15

试验报告编号/ Test Report No. : EPC 675 XDi TEST DATA

试验报告日期/ Test Report Date : 2016-12-16

试验报告编号/ Test Report No. : XL RF E-FIELD IMMUNITY_TEST 02B Ref.:4910217502N

试验报告日期/ Test Report Date : 2020-05-27

试验报告编号/ Test Report No. : XL RADIATED EMISSION - 16A Ref.:4910216501M

试验报告日期/ Test Report Date : 2020-05-27

试验报告编号/ Test Report No. : 02B RF electromagnetic field immunity XDi Ref.: 4910217502N

试验报告日期/ Test Report Date : 2020-06-08

试验报告编号/ Test Report No. : 16A Radiated disturbance XDi Ref.: 4910216501M

试验报告日期/ Test Report Date : 2020-06-08

认可后的产品检验方式/ Method of Product Inspection after Approval

按规范只认可不进行产品检验的产品/The product approved only in term of the rules:

认可后的产品由制造厂检验合格后签发合格证明, 并连同该产品的本社认可证书复印件一并交付用户, 制造厂对产品符合公约、法规、本社规范和本社认可的标准规定负责。

After approval, product inspection should be carried out by the Manufacturer. Upon satisfactory inspection, and the Quality Certificate issued by the Manufacturer should be provided to the purchaser together with the copy of the approval certificate issued by the Society. The manufacturer

should take responsibility for the product being in compliance with the convention, statutory regulation, the Society rules and the standard accepted by the Society.

认可保持条件/ Maintenance Requirements of Approval

1. 型式认可后, 如果产品及其重要零部件的设计、所用材料或制造方法有所改变, 且影响到产品的主要特性、特征; 或产品的性能指标有所更改, 且超过认可的范围, 则有关图纸和文件应经检验机构审批。并在检验机构认为必要时, 经本社检验人员见证有关试验和进行检查, 其结果应能证实仍符合认可条件。

After type approval, if there are changes to the design, materials used or manufacturing method of the product and important components and such changes affect major characteristics and properties of the product, or property indexes of the product are changed and exceed the scope of approval, related drawings and documents are to be examined and approved by the concerned survey office. Where deemed necessary by the survey office, the surveyor to the Society will go to witness relevant tests and conduct inspection and the results should be able to demonstrate compliance with the approval conditions.

2. 工厂的质量管理体系应保持有效运行, 并且与认可时一致。如果质量管理体系发生改变, 应经原体系认证机构审核并报本社批准。

The quality management system of the factory shall be ensure effective operation, and shall be the same as the situation of approval. If there are any changes to the quality management system, auditing of the original certification organization for quality management system and the society's approval shall be obtained.

3. 认可证书有效期内, 如果出现可能导致本社取消认可的情况, 工厂应及时采取有效的纠正措施。

Within the validity of the approval certificate, if cases occur that may cause the Society to withdraw the approval, the manufacturer should take corrective actions in a prompt and effective manner.

4. 在认可证书有效期内, 本社检验人员可在未经事先通知的情况下对工厂的产品制造过程进行审核, 以验证产品的生产是否符合业经本社批准的图纸和文件。工厂应予以配合。

Within the validity of the approval certificate, the surveyor to the Society may pay unannounced audit to the manufacturing process of the product in order to confirm whether it is in compliance with the drawings and documents approved by the Society. The factory should provide an active cooperation and necessary for the surveyor.

5. 证书获得者应接受本社每年一次的定期审核, 定期审核日为认可证书期满之日对应的每一周年日, 检查工作应在周年日的前后三个月内进行。

Those who have obtained the certificate should be subject to periodical audit every year. The date of periodical audit shall be each anniversary date which corresponds to the date of expiry of the relevant certificate and the periodical audit shall be done within a time span of three months before and after the annual surveillance date.

备注/Remarks

本社已审核了产品厂无石棉声明, 但本社的审核不免除产品厂按照合同关系向订货方保证产品无石棉的责任。
The declaration of asbestos-free submitted by manufacturer has been reviewed by the Society. However, liability of the manufacturer to guarantee the products are asbestos-free to purchaser under contract will not be exempted.

本证书由原型式认可证书 (No. GB21PTB00001) 换新并替代原证书。

This certificate is renewed from and supersedes the previous Type Approval Certificate No. GB21PTB00001.

中国船级社哥德堡办事处

CCS Gothenburg Office

注: 本证书含有附页, 共1页

Note: The certificate is attached with additional 1 page(s)

Production description

Product name	Illuminated indicators	flexible Display indicators
Type	XL72, XL96, XL144, XL192 BW144, BW192 BRW-2	XDi 96, XDi 144, XDi 192
Variants	-	Dual, Multi and Nav
Dimensions (WxHxD)	XL72: 77x77x96mm XL96: 102x102x96mm XL144: 148x148x96mm XL192: 196x196x96mm BW144: 148x148x110mm BW192: 196x196x110mm BRW-2: 240x415x117mm	XDi 96: 102x102x58.2mm XDi 144: 148x102x58.2mm XDi 192: 196x148x60.6mm XDi 96 + module: 102x102x87.1mm XDi 144 +module: 148x102x87.1mm XDi 192 +module: 196x148x89.5mm
Power supply	24 V (18.0 to 31.2 V DC)	24 V (18.0 to 31.2 V DC)
Interfaces	Analogue interface (voltage/current) or CAN interface	CAN interface, Optional: analogue (AX1 module required), digital (DX1 module required), and serial (NX1/NX2 module required)
Accuracy	Class 0.5	-Analogue scale: $\leq \pm 1$ pixel, accuracy depends on scale length -No parallax error on analogue indicators. -Digital readout: $\leq \pm 1$ of least significant digit (rounding of input data is used)
Ingress protection	XL Front: IP52(standard), IP66(Option) XL Rear: IP20 BW, BRW-2: IP66	Front: IP52(standard), IP66(Option) Rear: IP20
Compass Safety distance	Steering compass: 0.60 m Standby/emergency compass: 0.40 m	< 0.3 m
Software version	-	XDi module: 1.0x.x XDi platform: 2.0.x.x