



中国船级社  
CHINA CLASSIFICATION SOCIETY  
型式认可证书  
CERTIFICATE OF TYPE APPROVAL  
证书编号/Certificate No. HB14T00014

证书格式号/Form: T01.02-  
NT000197

兹证明本证书所述制造厂生产的下列产品能够满足下面列明认可标准的要求。

This is to certify that the following products produced by the manufacturer stated in the certificate can meet the requirements of the approval standards listed below.

认可产品/ Product Approved

船用扭矩检测装置

Marine torque measuring device

传感器

Transducer

制造厂/ Manufacturer

Hottinger Baldwin Messtechnik GmbH

Im Tiefen See 45, 64293 Darmstadt, Germany

附加标志/ Notations

无/Nil.

认可标准/ Approval Standard

1. 中国船级社《钢质海船入级规范》(2012)及其修改通报第4篇, 第1、2章  
Chapter 1 & 2, Part 4 of CCS Rules for the Classification of Sea-going Steel Ships 2012 and its Amendments
2. 中国船级社《钢质海船入级规范》(2012)及其修改通报第7篇, 第2章  
Chapter 2, Part 7 of CCS Rules for the Classification of Sea-going Steel Ships 2012 and its Amendments

证书有效期至/ This Certificate is valid until

2018年5月9日 / May. 9, 2018

发证机构 中国船级社汉堡分社  
Issued by CCS Hamburg Branch

签发日期 2014年5月10日  
Date May. 10, 2014

本证书根据中国船级社《钢质海船入级规范》及有关程序规定签发。关于证书的有关规定见本证书背面的说明。当本证书包括多页纸张时, 则所有证书页为一个整体, 必须同时使用。每一页证书均须由本社盖章方为有效。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。本认可证书不代表本社对个体产品质量的检验。有关各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。  
This Certificate is issued pursuant to the Rules for Classification of Sea-going Steel Ships and related procedures of the Society. Refer to the back of the certificate for detailed requirements of the certificate. When the certificate consists of more than one page, all pages of the certificate are taken as a whole and are used simultaneously. No certificate page is valid without bearing the stamp of the Society 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. This approval certificate does not constitute the inspection of the Society about the quality of the unit/batch product. Related parties who are doubted about the authenticity of the certificate may inquire of the Society or its offices.



中国船级社总部/CCS headquarters: 北京市东直门南大街9号船检大厦 邮编: 100007  
CCS Mansion, 9 Dongzhimen Nan Da Jie, Beijing 100007, China  
本地检验机构/CCS Local Office: 中国船级社汉堡分社 CCS Hamburg Branch

电话/Tel: +86 (10) 58112288 传真/Fax: +86 (10) 58112811  
网址/Web Site: <http://www.ccs.org.cn>  
电话/Tel: 0049-40-3860890 传真/Fax: 0049-40-38608918

HB90866978  
No. 13165819

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**产品明细/ Product Description**

传感器/Transducer	: T40MAR and MP60
产品型号/Type	: DC: 24V
额定电压/Rated Voltage	: IP44(T40MAR), IP20(MP60)
外壳防护等级/Degree of Protection of Enclosure	

**批准的图纸和设计计算书/ Approved Drawings and Design Calculations**

图纸批准号/ Drawings Approval No.	: NP13A02122
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**产品认可试验报告/ Approval Test Report**

试验报告编号/Test Report No.	: E121795E1
试验报告日期/Test Report Date	: 2013-04-30
试验单位/ Laboratory	: Phoenix TESTLAB GmbH
试验单位地址/ Test Address	: Königswinkel 10, 32825 Blomberg, Germany
试验报告编号/Test Report No.	: U121795E1
试验报告日期/Test Report Date	: 2013-05-08
试验单位/ Laboratory	: Phoenix TESTLAB GmbH
试验单位地址/ Test Address	: Königswinkel 10, 32825 Blomberg, Germany

**产品适用范围/ Application of the Product**

船用/Marine Application

**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.

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

按照规范逐件检验的产品/The product inspected one by one in term of the rules:

认可后的产品检验应由本社验船师根据本社规范规定逐件按批准的产品检验计划进行检验, 经检验合格后由本社颁发产品证书。

After approval, product inspection should be carried out one by one by the Surveyor of the Society in accordance with the approved product inspection scheme, and the Product Certificate will be issued by the Society upon satisfactory inspection.

**对于原材料和零部件的检验要求/ Inspection Requirements for Materials and Components**

产品原材料和零部件的制造厂清单, 经本社批准方可变更/The list of manufacturer for the materials and components of the product should not be changed without the Society's approval.





责任声明/Statement of Responsibility

本社的认可不影响、替代与本社授权或检验无关的各方对上述工厂的认可和发证,并且不对与本社授权或检验无关的各方负责,不承担其未经应允而承认、接受本社认可所导致的法律和经济责任。

The approval of the Society does not affect and replace any approval and certification of the manufacturer by any parties that bear no relation with this Society's authorization or survey and therefore takes no responsibility for these parties. The Society does not undertake any legal and economic liabilities arising from accepting this Society's certificate without prior permission from this Society.

其他/Others

1. System components: T40MAR Torque Sensor and MP60 Torque interface module.
2. Output signal: T40MAR: 10±5 kHz, ±10 V;  
MP60: 4-20 mA;  
4mA = negative torque (-8% torque);  
5mA = 0(zero) torque (0% torque);  
20mA = Full torque (120% torque of the engine).
3. 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.
4. This approval is only applicable to electronic device, the mechanical components are to be drawings approval and individual certification case by case according to the certification requirements of this Society.
5. Radiated emissions at 522 kHz working frequency: 80 db??V/m.  
Surge protection Phoenix Contact QUINT-PS/24DC/24DC/5 is to be used.

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CCS Hamburg Branch



\*\*\*\*\*本证书正文完/ End of Text\*\*\*\*\*

