DNV·GL

Certificate No:
MEDB00001KU

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV GL SE based on the notification of the Federal Maritime and Hydrographic Agency of Germany.

This is to certify:

That the Navigation lights

with type designation(s)
CHX-series Navigation Lights

Issued to
Haixing Maritime Electric Group Co. Ltd.
Wenzhou 130, China

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2017/306,**
item No. MED/6.1. COLREG 72 as amended, Annex I/14, IMO Res. A.694(17), IMO Res. MSC.253(83)

Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2023-03-12**.

Issued at **Hamburg** on **2018-03-13**

DNV GL local station:
Ningbo

Approval Engineer:
Frederik Tore Elter

Notified Body
No.: **0098**

for **DNV GL SE**

Sven Dudszus
Head of Notified Body

The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.
This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL SE of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.
Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

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Product description

Haxing Marine Electronics CHX Series LED COLREG navigation lights for vessels above 50m, with following light types:

Type Designation	Type of Light	Decription	Voltage
CXH1-12PL	Green Starboard Light 3NM	Single	AC100-240V 50/60HZ
CXH1-102PL		Dual	AC100-240V 50/60HZ
CXH1-12PL		Single	DC24V
CXH1-102PL		Dual	DC24V
CXH2-12PL	Red Port Light 3NM	Single	AC100-240V 50/60HZ
CXH2-102PL		Dual	AC100-240V 50/60HZ
CXH2-12PL		Single	DC24V
CXH2-102PL		Dual	DC24V
CXH3-12PL	White Masthead Light 6 NM	Single	AC100-240V 50/60HZ
CXH3-102PL		Dual	AC100-240V 50/60HZ
CXH3-12PL		Single	DC24V
CXH3-102PL		Dual	DC24V
CXH4-12PL	White Stern Light 3NM	Single	AC100-240V 50/60HZ
CXH4-102PL		Dual	AC100-240V 50/60HZ
CXH4-12PL		Single	DC24V
CXH4-102PL		Dual	DC24V
CXH4-12PL	Yellow Towing Light 3NM	Single	AC100-240V 50/60HZ
CXH4-102PL		Dual	AC100-240V 50/60HZ
CXH4-12PL		Single	DC24V
CXH4-102PL		Dual	DC24V
CXH6-12PL	Red/Green/White/Yellow All-round Light 3NM	Single	AC100-240V 50/60HZ
CXH6-102PL		Dual	AC100-240V 50/60HZ
CXH6-12PL		Single	DC24V
CXH6-102PL		Dual	DC24V
CXH14	Flashing White 3NM	Single	AC100-240V 50/60HZ
CXH14	Flashing White 3NM	Single	DC24V
CXH14	Flashing Red 3NM	Single	AC100-240V 50/60HZ
CXH14	Flashing Red 3NM	Single	DC24V
CXH14	Flashing Yellow 3NM	Single	AC100-240V 50/60HZ
CXH14	Flashing Yellow 3NM	Single	DC24V
CXH14	Flashing Green 3NM	Single	AC100-240V 50/60HZ
CXH14	Flashing Green 3NM	Single	DC24V

Application/Limitation

- The navigation lights to be installed in accordance with COLREG 72 as amended and maker's instruction.
- In accordance to makers documentation, navigation lights are to be connected to a navigation light controller that monitors the runtime for each light. The controller is to provide an indication of failure for each individual installed light, once the runtime has surpassed the documented lifetime of 17520 hours. Thereafter, upon indication, the light source is to be replaced.

Type Examination documentation

Tests carried out

- EN14744 (2005-including AC2006) and requrements for COLREG
- IEC60945 (2002)

Marking of product

- According to EN14744