EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB0000AXN
Revision no.:
0

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED). This Certificate is issued by DNV 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)
CXHLP series

issued to
Zhejiang Hule Electric Equipment Manufacture Co., Ltd.
Jiaxing, **China**

is found to comply with the Implementing Regulation **(EU) 2024/1975** for
Item no. **MED/6.1** (Row **1 of 1**)
according to the following requirements:
COLREG 72 Annex I/14, IMO Res. A.694(17), IMO Res. MSC.253(83)

(Manufacturers authorised representative)
Del-Mar Safety B.V.
Rotterdam, A. Plesmanweg 95-97, 3088 GC, Netherlands

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

Date of issue: **2025-07-18**

Expiry date: **2030-07-17**

DNV local unit:
Shanghai

Approval Engineer:
Tommi Juhani Rifaat

Notified Body
no.: **0098**

for **DNV SE**

Christine Mydlak-Röder
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 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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

Product description

CXHLP series LED navigation light, Type: CXHLP(1/2/3/4/6)-1, CXHLP(1/2/3/4/6)-2.

Note:
CXHLP - (X1)

(x1) = 1: single layer

(x1) = 2: Double layer

In accordance with the maker's documentation, photosensitive detectors were installed for triangular shaped group LED illuminants. CXHLP series LED navigation lights provide a failure signal by measuring the voltage of the photosensitive detectors. Failure will be detected in case of:

*LED group no lighting failure (open circuit and/or wiring mistake).

*LED attenuation (without deterioration panel).

Compass safe distance	Standard compass	Steering compass
AC230V, 20W	40cm	20cm
AC230V, 6W	40cm	25cm

See Appendix "Other" for type overview.

Application/Limitation

Each product is to be supplied with its manual for installation and maintenance manual.

The navigation lights to be installed in accordance with COLREG 72 as amended and maker's instructions.

Navigation LED lighting sources shall not be removed and replaced but replaced integrally if needed.

The controller (NLP) is to provide an indication of failure for each individual installed loght once the runtime has surpassed the documented lifetime as specified in the installation manual, Ref. No.: AME3.944.747/748 SM, rev. A01, dated on 2024-04-17.

Type Examination documentation

Tests carried out

• Environmental testing: IEC 60945 (2002) incl. Corr.1 (2008)
• Performance testing: EN 14744 (2005)

Marking of product

In accordance with EN 14744.

OTHER

Product name	Type	Power of source	Visibility sector	Visibility of light	Color	Material of lens	Material of housing
Starboard light	CXHLP1-1	AC230V, 6W	112.5°	3n.m	Green	Polycarbonate (PC)	Type GN2101F Engineering Plastic, Black
Port light	CXHLP2-1	AC230V, 6W	112.5°	3n.m	Red		
Mast light	CXHLP3-1	AC230V, 20W	225°	6n.m	White		
Stern light	CXHLP4-1	AC230V, 6W	135°	3n.m	White / Red		
All round light	CXHLP6-1	AC230V, 6W	360°	3n.m	White / Red / Green		
Starboard light	CXHLP1-2	AC230V, 2×6W	112.5°	3n.m	Green	Polycarbonate (PC)	Type GN2101F Engineering Plastic, Black
Port light	CXHLP2-2	AC230V, 2×6W	112.5°	3n.m	Red		
Mast light	CXHLP3-2	AC230V, 2×20W	225°	6n.m	White		
Stern light	CXHLP4-2	AC230V, 2×6W	135°	3n.m	White		
Towing light	CXHLP4-2	AC230V, 2×6W	135°	3n.m	Yellow		
All round light	CXHLP6-2	AC230V, 2×6W	360°	3n.m	White / Red / Green		