DNV·GL

Certificate No:
MEDB0000352

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 Daylight signalling lamp

with type designation(s)
Daylight Signalling Light HSL & HSL LED

Issued to
Karl Dose GmbH
Hamburg, Germany

is found to comply with the requirements in the following Regulations/Standards:
Regulation **(EU) 2017/306,**
item No. MED/4.52. SOLAS 74 as amended, Regulations V/18, V/19 & X/3, IMO Res. A.694(17), IMO Res. MSC.36(63), IMO Res.MSC.95(72), IMO Res. MSC.97(73)

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

This Certificate is valid until **2022-11-12**.

Issued at **Hamburg** on **2017-11-13**

DNV GL local station:
Hamburg

Approval Engineer:
Didier Girardin

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

Daylight signalling lamp

Type HSL	Part 2155510 halogen 12V DC +/- 10%
Lamp:	Incandescent lamps Osram type 3732 ; 12V,50W
Ingress Protection	IP 56
Accessories	
Carry case consisting of:	Battery charger 220V/12V Battery charger 110V/12V on request Battery Transformer 120V of 240V AC 50/60Hz
Type HSL LED	HSL LED Part 2155512 LED 12V DC +/- 10%
LED Lamp:	LED CREE XR-E-WHT-WC-05
Ingress Protection	IP 56
Accessories	
Carry case consisting of:	Battery charger 220V/12V Battery charger 110V/12V on request Battery Transformer 120V of 240V AC 50/60Hz

Application/Limitation

None

Tests carried out

Tested according to IEC 60945(2002) incl. corregendum 1 (2008)), ISO 25861 (2007) and MSC.95(72).

Marking of product

Main components are to be marked with:

- Manufacturer name
- Type designation
- Serial No.
- Mark of Conformity