

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB00007XN

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 Daylight signalling lamp

with type designation(s)

Day Signaling Searchlight HML- ISO LED

issued to

WISKA Hoppmann GmbH
Kaltenkirchen, Germany

is found to comply with the requirements in the following Regulations/Standards:

Regulation (EU) 2023/1667,

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 **2029-08-25**.

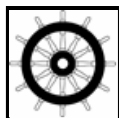
Issued at **Hamburg** on **2024-08-26**

DNV local unit:

Hamburg – CMC North/East

Approval Engineer:

Kai Möller



Notified Body
No.: **0098**

for **DNV SE**

Mydlak-Röder, Christine
Head of Notified Body

A U.S. Coast Guard approval number will be assigned to the equipment when the production module has been completed and will appear on the production module certificate (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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 300,000 USD.



Product description

The daylight signalling lamp comprises the following equipment necessary for functioning:

No.	Designation	Type	Weight	Colour
1	Daylight Signalling Lamp	HML-ISO LED (with 5m cable)	2.23 kg	RAL 9005 (black)
2	Lamp (LED module)	Triple Cluster: Cree XP-L, 5 W, 12- 24 V (DC)	0.55 kg	Not applicable
3	Battery	PowerPack HML-ISO 35 (UPS 12580)	2.83 kg	Not applicable
4	Battery Charger	Battery Charger HML-ISO	0.34 kg	Not applicable

The ingress protection of daylight signalling lamp "HML-ISO LED" is IP 56 and has equipment category "Portable" as per IEC 60945.

Application/Limitation

- Safe distance to magnetic compass and steering compass: 0.3m.
- Sufficient replacement lamps must be available on board for the day signalling searchlight.
- Only use batteries, LED modules and chargers from WISKA Hoppmann, as these are approved with the daylight signalling searchlight.
- After 10000 operating hours, the LED module must be replaced. The red LED on the searchlight flashes. This ensures that the remaining brightness is sufficient and complies with the provisions of MSC.95(72).
- In case of one or more defective LED spotlights, complete LED module "Triple Cluster: Cree XP-L" is to be replaced.
- Carrying one spare LED module "Triple Cluster: Cree XP-L" is seen by design to fulfil ISO25861:2007, chapter 4.11 "Back-up and fall-back arrangements" and MSC.95(72), chapter 8 "Back-up and fall-back arrangements".

Tests carried out

- Environmental and EMC testing: IEC 60945 (2002) incl. Corrigendum 1 (2008)
- Performance testing: ISO 25861 (2007)

Type Examination documentation

DNV No.	Document ID	Rev.	Description
50	ZLP2024-002	2024-08-09	Report: HML-ISO LED Test Report, IEC 60598
49		2022-11-14	Statement: LED's used in Triple Cluster: Cree XP-L
48	ZLP2024-001	2024-08-01	Report: HML-ISO LED Test Report, IEC 60598
47	09-2492	0 (2009-07-01)	Report: HML-ISO35 TR 09-2492-BE-Hand Spotlight (Wiska), IEC 60529
46	161115-015	1.0 (2016-11)	Report: Lead Accu Charger ALCT 6-24/2 ANSMANN AG, IEC 60945
45	20161020	1	Report: Vibration test charger ALCT 6-24/2
44	240-16	1	Report: Lead Acid Battery Charger ALCT 6-24/2
43		2024-07-17	Statement: HML environmental requirements for durability and resistance, IEC60945:2022 8.10-8.12
31		2024-07-24	Statement: Replacement/ Failure of LED_20240724_en
30	50109819	1 (2024-08-06)	Manual: 50109819 BA_HML-ISO-LED_EN_19062024
27	454.DSL/002/0001b	2024-07-09	Report: HML ISO LED Daylight signalling lamp ISO 25861:2007
24		A	Misc: Material data sheets: Gehäuseaussenteile_Werkstoffe_WISKA
22	1130	2023-09-27	Report: Compass Safe Distance_1130_WISKA_HML-ISO_LED_2023
21	433-23	2 (2024-04-10)	Report: WISKAS- EMC-Tagessignalscheinwerfer HML-ISO-LED
20	23DE-00788	0 (2024-04-19)	Report: WISKAS-ENC-HML ISO LED-DIN EN 60945, AC1 (2010)-No. 23DE-00788

Marking of product

According to IEC 60945, Sect.4.9:

The product to be marked with following information, where practicable:

- Identification of the manufacturer,
- Equipment type number or model identification under which it was type tested,
- Serial number of the unit,
- Compass safe distance.

Alternatively, the marking may be presented on a display at equipment start-up, and in case of fixed equipment compass safe distance may be given in the equipment manual.

END OF CERTIFICATE