

Beschreibung Tagsignalscheinwerfer NHS200H Description Daylight Signalling Lamp NHS200H



DNVGL Zertifikatsnummer: MEDB0000354

Der Tagsignalscheinwerfer NHS200H MED entspricht den Empfehlungen gemäß dem „Internationalen Übereinkommen zum Schutze des menschlichen Lebens auf See (Solas)“, und der Schiffsausrüstungsrichtlinie 2014/90EU und Durchführungsverordnung (EU) 2017/306 MED/4.1.

Funktion des Scheinwerfers

Der Scheinwerfer ist für den Einhandbetrieb vorgesehen. Er hat eine Visiereinrichtung, wird über den Taster im Handgriff betätigt und dient der optischen Signalgebung.

Technische Daten

Gehäuse:	seewasser-/witterungsbeständiger Kunststoff (Polycarbonat)
Reflektor:	Hochglanz-Glasparabolspiegel Ø 150 mm
Frontglas:	temperaturwechselbeständiges Hartglas
Schutzart:	IP 56 nach DIN EN 60529
Halogenlampe:	20W / 24Volt
Fassung:	G4
Kabellänge:	2 m (gestreckte Länge)
Gewicht:	max. 1,50 kg

Signaltragweite nach DIN 5037:	4,5 km bei Tag 36 km bei Nacht
Reichweite bei 1 Lux:	300 m
Halbstreuwinkel:	1,5°/1,8°
Zehntelstreuwinkel:	3,2°/3,5°

Lampenwechsel

Scheinwerfer spannungsfrei schalten.
Frontring ca. 10° gegen den Uhrzeigersinn drehen und abheben.
Defekte Halogenleuchte abkühlen lassen und erst dann aus der Lampenfassung ziehen. Gegen eine neue Original Osram Halogenlampe ersetzen. Andere Typen unzulässig und führen zum Erlöschen der MED Zulassung.

Achtung:

Überprüfen Sie durch leichten Druck und leichtes seitliches „Kippeln“ der Lampe, ob beide Kontaktbeine vollständig in der Fassung stecken und unten aufliegen!

Die Halogenleuchte nicht mit bloßen Fingern berühren.

Verwenden Sie ein weiches Tuch oder die Verpackungstüte.

Reflektorwechsel

Signalscheinwerfer spannungsfrei schalten.
Frontring abdrehen und Lampe ausbauen (siehe: Lampenwechsel).
Die Reflektorhalter abschrauben.
Den defekten Reflektor gegen einen neuen ersetzen und wieder festschrauben. Lampe einbauen (siehe: Lampenwechsel). Frontring mit der Kunststoffmarkierung nach oben auf das Gehäuse setzen und bis zum Anschlag festdrehen.

Hinweis:

Bei Bedarf kann der Reflektor und die Frontscheibe mit Glasreiniger oder destilliertem Wasser gesäubert werden. Dabei aber kein Reinigungsmittel in das Gehäuse spritzen.

DNVGL certificate no.: MEDB0000354

The daylight signalling lamp NHS200H complies with the recommendations of the "International Convention for the Safety of Life at Sea (Solas)" and the Ship Equipment Directive 2014/90EU and Implementation Regulation (EU) 2017/306 MED/4.1.

Functions of the Searchlight

The Searchlight is designed for single-handed operation. It has a sighting device, is operated by a push button switch in the handle and is used to give visual signals.

Technical Data

Housing:	seawater/weather proof synthetic material (polycarbonate)
Reflector:	high-polished-glass parabolic mirror Ø 150 mm
Front glass:	hard glass, resistant to temperature changes
Degree of protection:	IP 56 acc. to DIN EN 60529
halogen lamp:	20W/24Volt
socket:	G4
Cable length:	2 m (extended length)
weight:	max. 1.50 kg

Signalling range (acc. to DIN 5037):	4.5 km by day 36 km at night
Range at 1 lux:	300 m
Divergence at 50% I max.:	1.5°/1.8°
Divergence at 10% I max.:	3.2°/3.5°

Replacement of lamps

Disconnect the searchlight from power supply.
Turn the front ring anti-clockwise for approx. 10° and lift off to the front.
Let cool defective halogen light bulb and then pull out the lamp socket. Replace with an original Osram new one.
Other types are not permitted and will invalidate the MED approval.

Attention:

Using slight pressure and „wobbling“ the lamp from side to side, check whether both contact pins are fully inserted in the socket and touch the bottom!

Do not touch the halogen lamp with bare fingers.

Use a soft cloth or the bag in which the lamp is packed.

Replacement of the reflector

De-energize the signalling lamp.
Remove the front ring and take out the lamp (see replacement of Lamps).
Remove the reflector holder.
Replace the defective reflector by a new one and screw tight.
Install the lamp (see Replacement of Lamps).
Put the front ring onto the housing with the plastic marker at the top, and tighten as far as the stop.

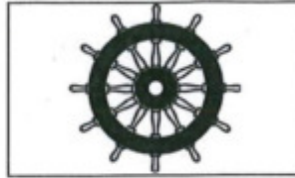
Note:

If necessary, the reflector and the front glass can be cleaned with a glass cleaner or distilled water. However, take care not to squirt any cleaning agent into the housing.



Ersatzteile für Tagsignalscheinwerfer NHS200H Spare parts for Daylight Signalling Lamp NHS200H

<u>Ersatzteile</u>	<u>Spare Part</u>	<u>TeileNr./ Part No.</u>	<u>Qty</u>
Frontring mit Glas	front frame with glass	003200331	1
Reflektor Ø150 mm	reflector Ø150 mm	003200542	1
Fassung G4	socket G4	4409354	1
Halogen Lampe 20W, 24V, G4 remark:	halogen lamp 20W, 24V, G4	4409011	1
Bemerkung/ Note:	es sind ausschließlich Original OSRAM Lampen zulässig! only original OSRAM lamps are allowed!		



EU Declaration of Conformity

We hereby declare that the following specified equipment complies in conception and design and in the form marketed by our company with the EU Marine Equipment Directive (MED) 2014/90/EU and Regulation (EU) 2017 /306

Equipment description

Daylight Signalling Lamp

Type

NHS 200 H

The technical documentation for this equipment is retained at the following address:

IBAK Helmut Hunger GmbH & Co.KG
Dr. W. Hunger
Wehdenweg 122
24148 Kiel
Germany

This equipment has been tested to verify compliance with the following Regulations and Testing Standards:

IMO Requirements SOLAS V/18, V/19 and X/3
IMO Resolutions A.694 (17)
MSC.36 (63)
MSC.95 (72)
MSC.97 (73)
IEC 60945 (2002) incl. 60945 Corr. 1 (2008)
ISO 25861 (2007)

The notified body

0098
DNV GL SE
Brooktorkai 18, 20457 Hamburg, Germany

has performed a review of the quality assurance of the production process and an EU-type examination and issued the certificate:

EU-Type Examination Certificate No.
(Module B)

MEDB0000354 valid until **2022-11-06**

Quality System Certificate No.
(Module D)

MEDD0000191 valid until **2022-11-06**

This declaration of conformity is issued under the sole responsibility of the manufacturer. Modification of the product without our agreement shall render this declaration void.

Signed for IBAK Helmut Hunger GmbH & CO. KG

Kiel

06.11.2017

Dr. W. Hunger, General Manager

Place

Date

Name and function

Signature

**EC-TYPE EXAMINATION
CERTIFICATE (MODULE B)**

Certificate No:
MEDB0000354
Revision No:
1

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)
NHS200H

Issued to

IBAK Helmut Hunger GmbH & Co. KG
Kiel, 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 **2022-11-06**.

Issued at **Hamburg** on **2017-11-09**

DNV GL local station:
Hamburg

Approval Engineer:
Didier Girardin



Notified Body
No.: **0098**



for **DNV GL SE**
Digitally Signed By: Mydlak-Röder, Christine
Location: DNV GL Hamburg, Germany
, on behalf of

Sven Dudzus
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.



Job Id: **344.1-007378-1**
Certificate No: **MEDB0000354**
Revision No: **1**

Product description

Daylight signalling lamp: NHS 200H
Lamp: Osram Halogen Halostar 64435 2900K 24V/20W G4

Types: NHS 200H 20W/24V HNA (HNA plug)
Types: NHS 200H 20W/24V BG (BG plug)

Ingress Protection IP 56, IP 67

Optional storage bag ABT224 with emergency power source and battery charger

Type Examination documentation

Dwg. 003200040 rev.1 and 003201040 rev.1
GL Test report :9049-12-30442-157 dated 2012-07-16
BSH Approval 14/01/92 dated 1992

Tests carried out

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

Marking of product

The HML main components are to be marked with:

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

QS - CERTIFICATE OF ASSESSMENT - EC (MODULE D)

Certificate No:
MEDD0000191
Revision No:
1

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 Quality System for the products

with type designation(s) as specified in the Appendix to this Certificate

Issued to

IBAK Helmut Hunger GmbH & Co. KG
Kiel, Germany

is found to comply with the applicable requirements.

The quality system has been assessed with respect to the procedure of conformity assessment described in Annex II, Module D in the directive 2014/90/EU and regulation (EU) 2017/306.

This Certificate is valid until **2022-11-06**.

Issued at **Hamburg** on **2017-11-09**

DNV GL local station:
Hamburg

Approval Engineer:
Didier Girardin



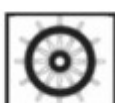
Notified Body
No.: **0098**



for **DNV GL SE**

Digitally Signed By: Mydiak-Röder, Christine
Location: DNV GL Hamburg, Germany
, on behalf of

Sven Dudzus
Head of Notified Body



0098/yyyy

0098: Notified Body number undertaking quality surveillance
yyyy: The year in which the mark is affixed

The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU. This certificate authorizes the manufacturer in conjunction with the valid EC Type Examination (Module B) Certificate(s) of the equipment listed before to affix the Mark of Conformity (wheelmark) to the product described herein.

This certificate loses its validity if the manufacturer makes any changes to the approved quality system, which have not been notified to, and agreed with the notified body named on this certificate. This certificate remains valid unless suspended, withdrawn, recalled or cancelled. The Manufacturer has to apply for periodical audits to verify the maintenance and application of the quality system every 12 months.



Job Id: **344.1-007378-3**
Certificate No: **MEDD0000191**
Revision No: **1**

APPENDIX

Item no. MED/4.52 Daylight signalling lamp

Type designation	EC Type-Examination Certificate No.	Expiry date	Notified Body No.	USCG approval number
NHS200H ¹	MEDB0000354 Rev.1	2022-11-06	0098	N/A

Places of production

1.IBAK Helmut Hunger GmbH & Co. KG, Wehdenweg 122, Kiel, Germany

Aufbewahrungstasche ABT224 mit Notstromquelle und Ladegerät Storage Bag ABT224 with emergency power source and battery charger

Technische Daten:

Aufbewahrungstasche ABT224

mit Fach für den Tagsignalscheinwerfer NHS200H MED und Seitenfach für max. 4 farbige Filter mit Akku und Akku-Ladegerät
Steckdose: HNA (ABT224HNA) oder Bulgin (ABT224BG) zum Anschließen des Tagsignalscheinwerfers NHS200H MED

Maße (BxHxT) : 480 x 230 x 230 mm
Gewicht : max. 6 kg

Netzanschlußkabel : ca. 1,2 m
des Ladegerätes

Notstromquelle:

Spannung/Leistung: 24V, 6,5Ah
2 Akkus à 12V; min. 6,5Ah
lageunabhängig, wartungsfrei,
auslaufsicher
Ersatzakkus: Teile Nr. 44 13257 (2x benötigt)

Ladegerät:

Eingangsspannung : 100V-240V,
Ladespannung : 24V für Bleiakkus,
strom- und spannungsbegrenzt

Ladezeiten:

ABT212 (12V, 1A)	nach Gebrauch	40 – 60 h
	nachladen	24 – 30 h
ABT224 (24V, 1A)	nach Gebrauch	20 – 30 h
	nachladen	12 – 20 h

Bedienungshinweise:

Die Lagerung sollte im vollgeladenen Zustand und in trockenen Räumen erfolgen.

Eine Nachladung sollte nach jedem Gebrauch erfolgen. Bei Nichtgebrauch ist eine Nachladung alle 2 Monate erforderlich; bei niedrigen Temperaturen früher.

Achtung

Zum Laden muß das Ladegerät zur besseren Wärmeabfuhr aus der Aufbewahrungstasche herausgenommen werden!

Zum Aufladen der Batterie muss das Ladegerät angeschlossen werden (Steckverbinder zusammenstecken). Nach dem Ladevorgang muss das Ladegerät von der Batterie wieder getrennt werden (Steckverbinder auseinanderziehen). (siehe auch Schaltplan 313600448)

Technical Data:

Storage Bag ABT224

with compartment for Daylight Signalling Lamp NHS200H MED and side compartment for max. 4 coloured filter panes with rechargeable battery and battery charger
Receptacle: HNA (ABT224HNA) or Bulgin (ABT224BG) for connection of Daylight Signalling Lamp NHS200H MED

dimensions (WxHxL) : 480 x 230 x 230 mm
weight : max. 6,0 kg

Connection cable : approx. 1,2 m
of battery charger

Emergency power source:

Voltage/power: 24V, 6,5Ah
2 accumulators of 12V; min. 6,5Ah,
independent of position, nonspillable
maintenance free
Spare lead acid battery: P/N 4413257 (2 of required)

Battery charger:

Input supply : 100V-240V, 50 - 60Hz
Charging Voltage : 24V for lead acid battery
current and voltage limited

Charging Times:

ABT212 (12V, 1A)	after use	40 – 60 h
	recharge	24 – 30 h
ABT224 (24V, 1A)	after use	20 – 30 h
	recharge	12 – 20 h

Notes for Operating:

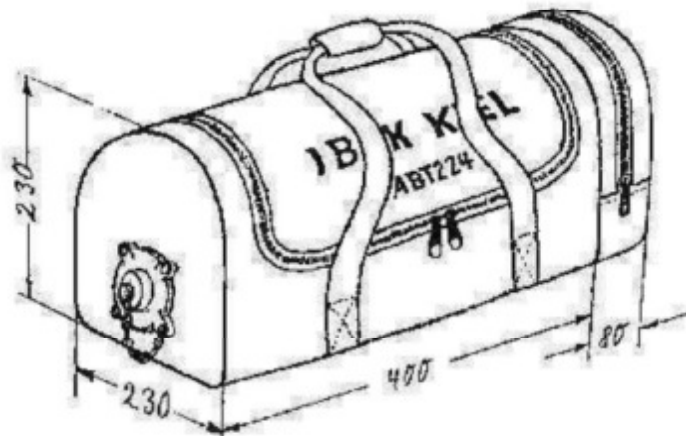
The unit should be stored fully charged and in a dry place.

It should be recharged each time it has been in operation. If it is not used, it should be recharged every 2 months, particularly in low temperatures.

Attention

For charging, the charger must be removed from the storage bag so that the heat can dissipate!

For charging a battery the battery charger has to be connected (plug in connectors of charging cable). After charging the battery charger has to be disconnected from the battery (unplug connectors of charging cable). (See also circuit diagram 313600448)



Zum Aufladen der Batterie muss das Ladegerät angeschlossen werden (Steckverbinder zusammenstecken).

Nach dem Ladevorgang muss das Ladegerät von der Batterie wieder getrennt werden (Steckverbinder auseinanderziehen).

Siehe auch Schaltplan 313600448!

To charge a battery, the battery charger must be connected (connect the plug and socket).

After charging, the battery charger must be disconnected from the battery (separate the plug and socket).

Quod vide circuit diagram 313600448!

