

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)

Navigation Lights Type 400, 420, 500, 580, 760, 780

Issued to

Peters & Bey GmbH
Reinbek, Germany

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

Regulation **(EU) 2015/559,**

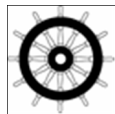
Annex A.1, item No. A.1/6.1 and Annex B, Module B in the Directive. COLREG 72 as amended, Annex I/14, IMO Res. A.694(17) and IMO Res. MSC.253(83)

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

This Certificate is valid until **2021-10-19**.

Issued at **Hamburg** on **2016-10-20**

DNV GL local station:
Hamburg



for **DNV GL SE**

Approval Engineer:
Andrea Grün

Notified Body
No.: **0098**

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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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

Product description

- Type 400: SSb 410 green, SBb 410 red, T410 white, H410 white, TD410 red/green, A431 white, AS red, AS 431 yellow, A 431 green, AD 431 red/white/green, A400 white – prehoistable, AS 400 red – prehoistable, AS 400 green – prehoistable
- Type 420: SSb 420 green, SSb 422 green – VA, SSb 422 green - Cu, SBb 420 red, SBb 422 red – VA, SBb 422 red – Cu, T 420 white, T 422 white – VA, T 422 white - Cu, H 420 white, H 422 white – VA, H 422 white - Cu, TD 420 red/green, TD 422 red/green – VA, TD 422 red/green – Cu, A 426 white, AS 426 red, TS 426 yellow AS 426 green, AS 426 blue, AD 426 red/white/green, AS 426 yellow, A427 white – prehoistable, AS 427 red – prehoistable, AS 427 green – prehoistable AS 427 yellow – prehoistable, AS 427 blue – prehoistable, ADA 426 red/white/green - white
- Type 500: SSb 500 green, SBb 500 red, T 500 white, H 500 white, H 500 yellow, AS 500 white, AS 500 green, AS 500 blue, AS 500 yellow, AS 500 red
- Type 580: LED Navigation light
SSb 580 green, SBb 580 red, T 580 white (3 and 5 sm), H 580 white, H 580 yellow, TD 580 Bicolour sidelight red/green, ADA 580 Tricolour All-round light, white , AD 580 Tricolour light, AS 580 white, AS 580 green, AS 580 yellow, AS 580 red, TA580 white
- Type 760: SSb/DSSb 760 green, SBb/DSBb 760 red, T/DT 760 white, H/DH 760 white, HS/DHS 760 yellow, T/DT 760 white, AS/DAS 760 white, AS/DAS 760 green, AS/DAS 760 yellow, AS/DAS 760 red, AM 760 white, DAS 760 red/green, green/red, white, white/yellow, yellow/white
hoistable versions: AS 767 white, AS 767 red ; AS 767 green, AS 767 white
- Type 780: LED Navigation light (3nm, only *5 nm)
SSb/DSSb 780 green, SBb/DSBb 780 red, T/DT 780 white, H/DH 780 white, HS/DHS 780 yellow, T/DT 780 white, AS/DAS 780 white, AS/DAS 780 green, AS/DAS 780 yellow, AS/DAS 780 red, AM 780* white, DAS 780 red/green, green/red, white, white/yellow, yellow/white, white/red, red/white

Optional Equipment:

Panel Computer	HD 13T21 PBC E1C-PABA HD 08T21 PBC-E1C-PABA	LightControl Software Version 1.0.0 LightControl Software Version 1.0.0
Multiplexer	Magicplex8 GIC Pro	Light Control Firmware Version 2.3.4
Light control unit	PB-NLCP	

Application/Limitation

Software modifications:

Subsequent software versions may be allowed written details of such versions have been submitted to and accepted by the responsible Notified Body.

Optional features:

The Navigation light controller (NLC) Type PB-NLCP-SA additionally complies with the requirements of the COLREG 72, Annex III/1 and III/3.

Limitation on the acceptance or use of the product

Electric navigation lights according to COLREG with the above ranges of visibility for 12 V and 24 V operation.

Electric Navigation lights on vessels less than 50 m length, Masthead light (3 nm) only on vessels of less than 20 m length.

Masthead light (5 nm) allowed only for 24 V operation.

Electrical light sources complying with EN 14744, Annex A meet the requirements.

An incandescent lamp shall be legibly and permanently marked with an approval mark on the cap or on the

Job Id: **344.1-005569-3**
Certificate No: **MEDB00001SD**

Type 760: Electric navigation lights according to COLREG with the above ranges of visibility, suitable for 24 V, 115 V, 120 V and 230 V operation.
The sidelights may only be operated on board with installed screens based on the mounting instructions of the manufacturer.

Type Examination documentation

Type Examination numbers:	13454 to 13459	DHI 02/01/72
	13460, 13461 and 13463	DHI 02/02/73
	13462	DHI 02/03/74
	13434, 13435, 13436, 13437, 13438, 13439	DHI 02/01/83
	13440, 13441	DHI 02/01/83
	13442	DHI 02/01/834
	14238	D 204
	13465 to 13484, 15553	BSH/6323/04/2003
Test Reports: PB-NLCP-SA	BSH/46121/6012247/12-1, BSH/46121/6012247/12-2, BSH/46121/6012247/12-3, BSH/46121/6012247/12-5 BSH/46121/6012247/12-6 BSH/46162/0141397/09, BSH/46162/0141366/09 BSH/4543/001/6012626/13 dated 11-09-2013 BSH/4615/601034/06, BSH/4543/001/6012625/13 ECDIS BSH/46121/0041342/09 52 0507 12 53 0507 12 BSH No.772 and 773 dated 11-07-2012 411.327.1 Revision 0 and 411.327.2 dated 27-02-2012 411.327 Revision 0 dated 28-02-2012 412.152.1 dated 26-06-2012 412.152.1A dated 25-07-2012	
Declaration:	DOC102315-1r1 rev 1 – 13th September 2016	

Tests carried out

According to IEC 60945 Edition 4.0 2002 incl. Corr.1 2008, EN 14744 Edition 2005, incl. Corr. 2006

Marking of product

- Company name and logo
- Type designation
