

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB00008E8
Revision No:
2

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)

Series 55, 65 LED, 65 Arctic LED, 60, 60 Arctic, 61, 61N, 66N, 66ND, 66N MIL, 66ND MIL, 66N MIL Arctic, Series 66ND MIL Arctic, 75, 75D, 75 Arctic, 75D Arctic, 76N, 76ND, 76N Arctic, 76ND Arctic

issued to

GLAMOX NT Sp. z o.o.
Kraków, Poland

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

Regulation (EU) 2023/1667,

item No. MED/6.1. COLREG 72 as amended, Annex I/14, IMO Res. A.694(17), IMO Res. MSC.253(83)

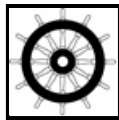
Further details of the equipment and conditions for certification are given overleaf.

This Certificate is valid until **2029-08-08**.

Issued at **Hamburg** on **2024-08-09**

DNV local unit:
Katowice CMC

Approval Engineer:
Tommi Juhani Rifaat



Notified Body
No.: **0098**

for **DNV SE**

Mydlak-Röder, Christine
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 This certificate remains valid unless suspended, withdrawn, recalled or cancelled.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 300,000 USD.



Product description

Series 55

The Navigation lights single-tier Series 55 provided with incandescent lamp for vessels ≥ 20 m until < 50 m in length, based on their light intensity levels. The Housing and the Fresnel lens is made of sea-water resistant technical plastic material.

Series 65 and 65 Arctic

The Navigation lights double-tier Series 65 and 65 Arctic holds two independent and galvanically isolated systems, each with its own electronic driver and associated LED-circuits (optical system). Both versions share the same housing elements, including heat sink, technical plastic Fresnel lens. This series type, address vessels of ≥ 20 m and more length, based on their light intensity levels. Housing is made of sea-water resistant technical plastic or brass

Series 60, 60 Arctic, 61 and 61N

The Navigation lights single-tier Series 60 and 60 Arctic are for vessels of $\geq 20 - < 50$ m and Series 61, 61N for vessels ≥ 20 m and more length, based on their light intensity levels. Housing is made of sea-water resistant technical plastic.

Series 66N, 66N MIL, 66N MIL Arctic, 75, 75 Arctic, 76N, 76N Arctic and double tier

Series 66ND, 66ND MIL, 66ND MIL Arctic, 75D, 75D Arctic, 76ND, 76ND Arctic

The Navigation lights single-tier Series 66N, 66N MIL, 66N MIL Arctic, 75, 75 Arctic, 76N, 76N Arctic and double tier Series 66ND, 66ND MIL, 66ND MIL Arctic, 75D, 75D Arctic, 76ND, 76ND Arctic for vessels ≥ 20 m and more length.

Double tier version holds two independent and galvanically isolated systems, each with its own electronic driver and associated LED-circuits (optical system). Both versions share the same housing elements, including heat sink, glass cover and sealing elements. Both, Series double & single tier type, address vessel of ≥ 20 m and more length, based on their light intensity levels. Types of 66N the housing is made of sea-water resistant aluminum alloy, completely anodized and /or additionally powder coated. Types of 75 and 76N the housing is made of sea-water resistant technical plastic. LED Electronic lifetime control included within the electronic driver

Product list covered by present certificate: See ANNEX

Application/Limitation

Pre-hostable only if specified under product description and/or Annex

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

Series 55

Navigation lights type incandescent supplied with either 12/ 24Vdc for vessels $> 20 - < 50$ m

Type Examination documentation

See Annex

Tests carried out

- EN 14744 (2005 - including AC 2006)
- IEC 60945 (2002) incl. IEC 60945 Corr. 1 (2008).
- COLREG 72, Annex I/14
- MSC.253(83)
- IMO Res.A.694(17)

Marking of product

According to Article 10 of the Council Directive (MED) and including information required by the LSA Code § 1.2.2.9 and § 1.2.3

- Manufacturer name
- Type identification
- Serial number
- Visibility of light in nautical miles

ANNEX
Type Examination documentation

Hidden

DNV No	Drw No	Rev	Title
50	9420119701_fr	Rev. 4	Manual: Aqua Signal, Operating Manual (French)
49	9420119701_eng	Rev. 2	Manual: Aqua Signal, Operating Manual (English)
48	9420119701_de	Rev. 2	Manual: Aqua Signal, Operating Manual (German)
47	7368400100	Rev. 1	Drawing: Glamox, S66N Dimension drawing S66N Port
46	7368304000	Rev. 1	Drawing: Glamox, S76ND Dimension drawing series 76ND, Series 76ND Arctic
45	7368046100	Rev. 1	Drawing: Glamox, S75 Dimension drawing series S75
44	7367601800	Rev. 2	Drawing: Glamox, S75D Dimension drawing series S75D
43	7367500200	Rev. 2	Drawing: Glamox, S66ND Dimension drawing S66ND Signal
42	7366503900	Rev. 1	Drawing: Glamox, S60/61 Dimension drawing series 60/61
41	TR-11578	Rev.0.b	Report: Glamox, IEC 60945, EN 14744 Test Report
40	TR-11592	Rev.0.a	Report: Glamox, IEC 60945, EN 14744 Test Report
39	TR-13001	Rev.0	Report: Glamox, Enviromental and Performance Test Report
38	18114-2	R00	Report: TUV, EMC Test Report navigation lights series S66 NGL
37	072115.215.18	1.0	Report: MTN, EMC Test Report Topp S66N
36	21019-3	R00	Report: TUV, EMC Test Report S75D ARTIC Topp 6 NM
35	001-21	1	Report: TREO, Enviromental Test Report TL66ND MIL
34	TI-7366502500	Rev.1.a	Doc: Glamox, Technical information navigation lights
33	7367543900		Doc: Glamox, Overview Navigation lights
32	7367543800	Rev.01	Doc: Glamox, Item number key
31	TI-7367502800	Rev.0.b	Doc: Glamox, Test matrix

Details of Series

Navigation lights Series 55 / type incandescent / supplied with either				12 Vdc or	24 Vdc	
1	SBb 55	Port light, red,	112,5°	3534202000	3534203000	2 nm
2	SSb 55	Starboard light, green,	112,5°	3535102000	3535103000	2 nm
3	H 55	Sternlight, white,	135°	3533702000	3533703000	2 nm
4	T 55	Masthead light, white,	225°	3532002000	3532003000	5 nm
5	SW 55	All-round light, white,	360°	3531702000	3531703000	2 nm
6	SR 55	All-round light, red,	360°	3531202000	3531203000	2 nm
7	SG 55	All-round light, green,	360°	3531102000	3531103000	2 nm
8	SGe 55	All-round light, yellow	360°	3531402000	3531403000	2 nm
9	HGe 55	Sternlight, yellow,	135°	3533402000	3533403000	2 nm

Navigation lights of the LED Series 65 / type LED / supplied with either:

Main system / Hauptsystem				24 Vdc	115 / 230 Vac	115 / 230 Vac	
Reserve system / Ersatzsystem					24 Vdc		
1	LED SBb 65	Port light, red,	112,5°	3664203000	3664206000	3664205000	3 nm
2	LED SSb 65	Starboard light, green,	112,5°	3663103000	3663106000	3663105000	3 nm
3	LED H 65	Sternlight, white,	135°	3662703000	3662706000	3662705000	3 nm
4	LED Hge 65	Towing light, yellow,	135°	3662403000	3662406000	3662405000	3 nm
5	LED T 65	Masthead light, white,	225°	3661003000	3661006000	3661005000	6 nm
6	LED SW65	All-round light, white,	360°	3660703000	3660706000	3660705000	3 nm
7	LED SR 65	All-round light, red,	360°	3660203000	3660206000	3660205000	3 nm
8	LED SG 65	All-round light, green,	360°	3660103000	3660106000	3660105000	3 nm
9	LED SGe 65	All-round light, yellow,	360°	3660403000	3660406000	3660405000	3 nm

10	LED Manöver 65	Manouvring light, white,	360°	3660003000	3660006000	3660005000	5 nm
11	LED SRG 65	All-round light, red over green,	360°	3660303100	3660306100	3660305100	3 nm
12	LED SGR 65	All-round light, green over red,	360°	3660303000	3660306000	3660305000	3 nm
13	LED SWR 65	All-round light, white over red,	360°	3660303200	3660306200	3660305200	3 nm
14	LED SRW 65	All-round light, red over white,	360°	3660303300	3660306300	3660305300	3 nm
15	LED SGW 65	All-round light, green over white,	360°	3660303500	3660306500	3660305500	3 nm
16	LED SWG 65	All-round light, white over green,	360°	3660303400	3660306400	3660305400	3 nm
17	LED SW 65	All-round light, white,	2 = 360°	3660703007	3660706003	3660705003	3 nm
18	LED SR 65	All-round light, red,	2 = 360°	3660203003	3660206003	3660205003	3 nm
19	LED SG 65	All-round light, green,	2 = 360°	3660103003	3660106003	3660105003	3 nm

Navigation Lights LED Series 65 Arctic / type LED / supplied with either				115 Vac or	230 Vac	
1	LED SBB 65 Arctic	Port light, red,	112,5°	3664247000	3664248000	3 nm
2	LED SSB 65 Arctic	Starboard light, green,	112,5°	3663147000	3663148000	3 nm
3	LED H 65 Arctic	Sternlight, white,	135°	3662747000	3662748000	3 nm
4	LED HGE 65 Arctic	Towing light, yellow,	135°	3662447000	3662448000	3 nm
5	LED T 65 Arctic	Masthead light, white,	225°	3661047000	3661048000	6 nm
6	LED SW 65 Arctic	All-round light, white, °	360	3660747000	3660748000	3 nm
7	LED SR 65 Arctic	All-round light, red,	360°	3660247000	3660248000	3 nm
8	LED SG 65 Arctic	All-round light, green,	360°	3660147000	3660148000	3 nm
9	LED SGE 65 Arctic	All-round light, yellow,	360°	3660447000	3660448000	3 nm
10	LED Manöver 65 Arctic	Manouvring light, white,	360°	3660047000	3660048000	5 nm
11	LED SRG 65 Arctic	All-round light, red over green,	360°	3660347100	3660348100	3 nm
12	LED SGR 65 Arctic	All-round light, green over red,	360°	3660347000	3660348000	3 nm
13	LED SWR 65 Arctic	All-round light, white over red,	360°	3660347200	3660348200	3 nm
14	LED SRW 65 Arctic	All-round light, red over white,	360°	3660347300	3660348300	3 nm
15	LED SGW 65 Arctic	All-round light, green over white,	360°	3660347500	3660348500	3 nm
16	LED SWG 65 Arctic	All-round light, white over green,	360°	3660347400	3660348400	3 nm
17	LED SW 65 Arctic 2=360°	All-round light, white,	2=360°	3660747003	3660748003	3 nm
18	LED SR 65 Arctic 2=360°	All-round light, red,	2 = 360°	3660247003	3660248003	3 nm
19	LED SG 65 Arctic 2=360°	All-round light, green,	2 = 360°	3660147003	3660148003	3 nm

Navigation Lights Series 60 / type LED / supplied with either				24 Vdc or	115 / 230 Vac	
1	SBB 60	Port light, red,	112,5°	3669203000	3669205000	2 nm
2	SSB 60	Starboard light, green,	112,5°	3668103000	3668105000	2 nm
3	H 60	Sternlight, white,	135°	3667703000	3667705000	2 nm
4	HGE 60	Towing light, yellow,	135°	3667403000	3667405000	2 nm
5	T 60	Masthead light, white,	225°	3666003000	3666005000	5 nm
6	SW 60	All-round light, white,	360°	3665703000	3665705000	2 nm
7	SR 60	All-round light, red,	360°	3665203000	3665205000	2 nm
8	SG 60	All-round light, green,	360°	3665103000	3665105000	2 nm
9	SGE 60	All-round light, yellow,	360°	3665403000	3665405000	2 nm
10	SW 60 2=360°	All-round light, white,	2 = 360°	3665703003	3665705003	2 nm
11	SR 60 2=360°	All-round light, red,	2 = 360°	3665203002	3665205003	2 nm
12	SG 60 2=360°	All-round light, green,	2 = 360°	3665103003	3665105003	2 nm

Navigation Lights Series 60 Arctic / type LED / supplied with either				24 Vdc or	115 / 230 Vac	
1	SBB 60 Arctic	Port light, red,	112,5°	3669253000	3669255000	2 nm
2	SSB 60 Arctic	Starboard light, green,	112,5°	3668153000	3668155000	2 nm
3	H 60 Arctic	Stern, white,	135°	3667753000	3667755000	2 nm
4	HGE 60 Arctic	Stern, yellow,	135°	3667453000	3667455000	2 nm
5	T 60 Arctic	Masthead,	225°	3666053000	3666055000	5 nm
6	SW 60 Arctic	All-round, white,	360°	3665753000	3665755000	2 nm
7	SR 60 Arctic	All-round, red,	360°	3665253000	3665255000	2 nm
8	SG 60 Arctic	All-round, green,	360°	3665153000	3665155000	2 nm

9	SGE 60 Arctic	All-round, yellow,	360°	3665453000	3665455000	2 nm
10	SW 60 2=360° Arctic	All-round, white,	2 = 360°	3665753003	3665755003	2 nm
11	SR 60 2=360° Arctic	All-round, red,	2 = 360°	3665253003	3665255003	2 nm
12	SG 60 2=360° Arctic	All-round, green,	2 = 360°	3665153003	3665155003	2 nm

Navigation Lights Series 61 / type LED / supplied with either				24 Vdc or	115 / 230 Vac	
1	SBB 61	Port light, red,	112,5°	3674203000	3674205000	3 nm
2	SSB 61	Starboard light, green,	112,5°	3673103000	3673105000	3 nm
3	H 61	Sternlight, white,	135°	3672703000	3672705000	3 nm
4	HGE 61	Towing light, yellow,	135°	3672403000	3672405000	3 nm
5	T 61	Masthead light, white,	225°	3671003000	3671005000	6 nm
6	SW 61	All-round light, white,	360°	3670703000	3670705000	3 nm
7	SR 61	All-round light, red,	360°	3670203000	3670205000	3 nm
8	SG 61	All-round light, green,	360°	3670103000	3670105000	3 nm
9	SGE 61	All-round light, yellow,	360°	3670403000	3670405000	3 nm
10	SW 61 2=360°	All-round light, white,	2 = 360°	3670703003	3670705003	3 nm
11	SR 61 2=360°	All-round light, red,	2 = 360°	3670203003	3670205003	3 nm
12	SG 61 2=360°	All-round light, green,	2 = 360°	3670103003	3670105003	3 nm
13	Manöver 61	Manoeuvre	360°	3670003000		5 nm

Navigation Lights Series 61N / type LED / supplied with				24 Vdc		
1	SBB 61N	Port light, red,	112,5°	3674293000		3 nm
2	SSB 61N	Starboard light, green,	112,5°	3673193000		3 nm
3	H 61N	Sternlight, white,	135°	3672793000		3 nm
4	HGE 61N	Towing light, yellow,	135°	3672493000		3 nm
5	T 61N	Masthead light, white,	225°	3671093000		6 nm
6	SW 61N	All-round light, white,	360°	3670793000		3 nm
7	SR 61N	All-round light, red,	360°	3670293000		3 nm
8	SG 61N	All-round light, green,	360°	3670193000		3 nm
9	SGE 61N	All-round light, yellow,	360°	3670493000		3 nm
10	SW 61N 2=360°	All-round light, white,	2 = 360°	3670793003		3 nm
11	SR 61N 2=360°	All-round light, red,	2 = 360°	3670293003		3 nm
12	SG 61N 2=360°	All-round light, green,	2 = 360°	3670193003		3 nm

Type of Navigation light Single tier	Series 66N		Series 66N MIL		Series 66N MIL Arctic	
	24 Vdc		24 Vdc		24 Vdc	
Starboard / Steuerbord	3683193000	3 nm	3683183000	3 nm	3683143000	3 nm
Port / Backbord	3684293000	3 nm	3684283000	3 nm	3684243000	3 nm
Masthead / Topp	3681093000	6 nm	3681083000	6 nm	3681043000	6 nm
Stern white / Heck weiss	3682793000	3 nm	3682783000	3 nm	3682743000	3 nm
Stern yellow / Heck gelb	3682493000	3 nm	3682483000	3 nm	3682443000	3 nm
All-round white / Signal weiss	3680793000	3 nm	3680783000	3 nm	3680743000	3 nm
All-round green / Signal grün	3680193000	3 nm	3680183000	3 nm	3680143000	3 nm
All-round red / Signal rot	3680293000	3 nm	3680283000	3 nm	3680243000	3 nm
All-round yellow / Signal gelb	3680493000	3 nm	3680483000	3 nm	3680443000	3 nm
All-round white (2=360°) opening SSB 180°	3680793001	3 nm	3680783001	3 nm	3680743001	3 nm
All-round white (2=360°) opening SBB 180°	3680793002	3 nm	3680783002	3 nm	3680743002	3 nm
All-round white (2=360°)	3680793003	3 nm	3680783003	3 nm	3680743003	3 nm
All-round green (2=360°) opening SSB 180°	3680193001	3 nm	3680183001	3 nm	3680143001	3 nm
All-round green (2=360°) opening SBB 180°	3680193002	3 nm	3680183002	3 nm	3680143002	3 nm
All-round green (2=360°)	3680193003	3 nm	3680183003	3 nm	3680143003	3 nm
All-round red (2=360°) opening SSB 180°	3680293001	3 nm	3680283001	3 nm	3680243001	3 nm
All-round red (2=360°) opening SBB 180°	3680293002	3 nm	3680283002	3 nm	3680243002	3 nm
All-round red (2=360°)	3680293003	3 nm	3680283003	3 nm	3680243003	3 nm
Manoeuvre	3680093000	5 nm	3680083000	5 nm	3680043000	5 nm
All-round white hoisting	3680793004	3 nm	3680783004	3 nm	3680743004	3 nm
All-round green hoisting	3680193004	3 nm	3680183004	3 nm	3680143004	3 nm
All-round red hoisting	3680293004	3 nm	3680283004	3 nm	3680243004	3 nm

Type of Navigation light Single tier	Series 75		Series 75 Arctic		Visibility Range
	24 Vdc	115/230 Vac	24 Vdc	115 / 230 Vac	
Starboard / Steuerbord	3683103000	3683105000	3683153000	3683155000	3 nm
Port / Backbord	3684203000	3684205000	3684253000	3684255000	3 nm
Masthead / Topp	3681003000	3681005000	3681053000	3681055000	6 nm
Stern white / Heck weiss	3682703000	3682705000	3682753000	3682755000	3 nm
Stern yellow / Heck gelb	3682403000	3682405000	3682453000	3682455000	3 nm
All-round white / Signal weiss	3680703000	3680705000	3680753000	3680755000	3 nm
All-round green / Signal grün	3680103000	3680105000	3680153000	3680155000	3 nm
All-round red / Signal rot	3680203000	3680205000	3680253000	3680255000	3 nm
All-round yellow / Signal gelb	3680403000	3680405000	3680453000	3680455000	3 nm
All-round white (2=360°) opening SSB 180°	3680703001	3680705001	3680753001	3680755001	3 nm
All-round white (2=360°) opening SBB 180°	3680703002	3680705002	3680753002	3680755002	3 nm
All-round white (2=360°)	3680703003	3680705003	3680753003	3680755003	3 nm
All-round green (2=360°) opening SSB 180°	3680103001	3680105001	3680153001	3680155001	3 nm
All-round green (2=360°) opening SBB 180°	3680103002	3680105002	3680153002	3680155002	3 nm
All-round green (2=360°)	3680103003	3680105003	3680153003	3680155003	3 nm
All-round red (2=360°) opening SSB 180°	3680203001	3680205001	3680253001	3680255001	3 nm
All-round red (2=360°) opening SBB 180°	3680203002	3680205002	3680253002	3680255002	3 nm
All-round red (2=360°)	3680203003	3680205003	3680253003	3680255003	3 nm
Manoeuvre	3680003000	3680005000	3680053000	3680055000	5 nm
All-round white hoisting	3680703004	3680705004	3680753004	3680755004	3 nm
All-round white opening SSB 180° upside down	3680703005	3680705005	3680753005	3680755005	3 nm
All-round white opening SBB 180° upside down	3680703006	3680705006	3680753006	3680755006	3 nm
All-round white (2=360°) upside down	3680703007	3680705007	3680753007	3680755007	3 nm
All-round green opening SSB 180° upside down	3680103005	3680105005	3680153005	3680155005	3 nm
All-round green opening SBB 180° upside down	3680103006	3680105006	3680153006	3680155006	3 nm
All-round green (2=360°) upside down	3680103007	3680105007	3680153007	3680155007	3 nm
All-round red opening SSB 180° upside down	3680203005	3680205005	3680253005	3680255005	3 nm
All-round red opening SBB 180° upside down	3680203006	3680205006	3680253006	3680255006	3 nm
All-round red (2=360°) upside down	3680203007	3680205007	3680253007	3680255007	3 nm

Type of Navigation light Single tier	Series 76N	Series 76N Arctic	Visibility Range
	24 Vdc	24 Vdc	
Starboard / Steuerbord	3683163000	3683173000	3 nm
Port / Backbord	3684263000	3684273000	3 nm
Masthead / Topp	3681063000	3681073000	6 nm
Stern white / Heck weiss	3682763000	3682773000	3 nm
Stern yellow / Heck gelb	3682463000	3682473000	3 nm
All-round white / Signal weiss	3680763000	3680773000	3 nm
All-round green / Signal grün	3680163000	3680173000	3 nm
All-round red / Signal rot	3680263000	3680273000	3 nm
All-round yellow / Signal gelb	3680463000	3680473000	3 nm
All-round white (2=360°) opening SSB 180°	3680763001	3680773001	3 nm
All-round white (2=360°) opening SBB 180°	3680763002	3680773002	3 nm
All-round white (2=360°)	3680763003	3680773003	3 nm
All-round green (2=360°) opening SSB 180°	3680163001	3680173001	3 nm
All-round green (2=360°) opening SBB 180°	3680163002	3680173002	3 nm
All-round green (2=360°)	3680163003	3680173003	3 nm
All-round red (2=360°) opening SSB 180°	3680263001	3680273001	3 nm
All-round red (2=360°) opening SBB 180°	3680263002	3680273002	3 nm
All-round red (2=360°)	3680263003	3680273003	3 nm
Manoeuvre	3680063000	3680073000	5 nm
All-round white hoisting	3680763004	3680773004	3 nm
All-round green hoisting	3680163004	3680173004	3 nm
All-round red hoisting	3680263004	3680273004	3 nm
All-round white opening SSB 180° upside down	3680763005	3680773005	3 nm
All-round white opening SBB 180° upside down	3680763006	3680773006	3 nm
All-round white (2=360°) upside down	3680763007	3680773007	3 nm
All-round green opening SSB 180° upside down	3680163005	3680173005	3 nm
All-round green opening SBB 180° upside down	3680163006	3680173006	3 nm
All-round green (2=360°) upside down	3680163007	3680173007	3 nm
All-round red opening SSB 180° upside down	3680263005	3680273005	3 nm
All-round red opening SBB 180° upside down	3680263006	3680273006	3 nm
All-round red (2=360°) upside down	3680263007	3680273007	3 nm

Type of Navigation light Double tier	Series 66ND	Series 66ND MIL	Series 66ND MIL Arctic	Visibility Range
Main system / Hauptsystem	24 Vdc	24 Vdc	24 Vdc	
Reserve system / Ersatzsystem				
Starboard / Steuerbord	3678193000	3678183000	3678143000	3 nm
Port / Backbord	3679293000	3679283000	3679243000	3 nm
Masthead / Topp	3676093000	3676083000	3676043000	6 nm
Stern white / Heck weiss	3677793000	3677783000	3677743000	3 nm
Stern yellow / Heck gelb	3677493000	3677483000	3677443000	3 nm
All-round white / Signal weiss	3675793000	3675783000	3675743000	3 nm
All-round green / Signal grün	3675193000	3675183000	3675143000	3 nm
All-round red / Signal rot	3675293000	3675283000	3675243000	3 nm
All-round yellow / Signal gelb	3675493000	3675483000	3675443000	3 nm
All-round white (2=360°) opening SSB 180°	3675793001	3675783001	3675743001	3 nm
All-round white (2=360°) opening SBB 180°	3675793002	3675783002	3675743002	3 nm
All-round white (2=360°)	3675793003	3675783003	3675743003	3 nm
All-round green (2=360°) opening SSB 180°	3675193001	3675183001	3675143001	3 nm
All-round white (2=360°) opening SSB 180°	3675793001	3675783001	3675743001	3 nm
All-round white (2=360°) opening SBB 180°	3675793002	3675783002	3675743002	3 nm
All-round white (2=360°)	3675793003	3675783003	3675743003	3 nm
All-round green (2=360°) opening SSB 180°	3675193001	3675183001	3675143001	3 nm
All-round green (2=360°) opening SBB 180°	3675193002	3675183002	3675143002	3 nm
All-round green (2=360°)	3675193003	3675183003	3675143003	3 nm
All-round red (2=360°) opening SSB 180°	3675293001	3675283001	3675243001	3 nm
All-round red (2=360°) opening SBB 180°	3675293002	3675283002	3675243002	3 nm
All-round red (2=360°)	3675293003	3675283003	3675243003	3 nm
All-round white hoisting	3675793004	3675783004	3675743004	3 nm
All-round green hoisting	3675193004	3675183004	3675143004	3 nm
All-round red hoisting	3675293004	3675283004	3675243004	3 nm

Type of Navigation light Double tier	Series 75D			Visibility Range
	24 Vdc	115 / 230 Vac	115 / 230 Vac	
Main system / Hauptsystem		24 Vdc	115 / 230 Vac	
Reserve system / Ersatzsystem		24 Vdc	115 / 230 Vac	
Starboard / Steuerbord	3678103000	3678106000	3678105000	3 nm
Port / Backbord	3679203000	3679206000	3679205000	3 nm
Masthead / Topp	3676003000	3676006000	3676005000	6 nm
Stern white / Heck weiss	3677703000	3677706000	3677705000	3 nm
Stern yellow / Heck gelb	3677403000	3677406000	3677405000	3 nm
All-round white / Signal weiss	3675703000	3675706000	3675705000	3 nm
All-round green / Signal grün	3675103000	3675106000	3675105000	3 nm
All-round red / Signal rot	3675203000	3675206000	3675205000	3 nm
All-round yellow / Signal gelb	3675403000	3675406000	3675405000	3 nm
All-round white (2=360°) opening SSB 180°	3675703001	3675706001	3675705001	3 nm
All-round white (2=360°) opening SBB 180°	3675703002	3675706002	3675705002	3 nm
All-round white (2=360°)	3675703003	3675706003	3675705003	3 nm
All-round green (2=360°) opening SSB 180°	3675103001	3675106001	3675105001	3 nm
All-round green (2=360°) opening SBB 180°	3675103002	3675106002	3675105002	3 nm
All-round green (2=360°)	3675103003	3675106003	3675105003	3 nm
All-round red (2=360°) opening SSB 180°	3675203001	3675206001	3675205001	3 nm
All-round red (2=360°) opening SBB 180°	3675203002	3675206002	3675205002	3 nm
All-round red (2=360°)	3675203003	3675206003	3675205003	3 nm
All-round white hoisting	3675703004	3675706004	3675705004	3 nm
All-round green hoisting	3675103004	3675106004	3675105004	3 nm
All-round red hoisting	3675203004	3675206004	3675205004	3 nm
All-round white opening SSB 180° upside down	3675703005	3675706005	3675705005	3 nm
All-round white opening SBB 180° upside down	3675703006	3675706006	3675705006	3 nm
All-round white (2=360°) upside down	3675703007	3675706007	3675705007	3 nm
All-round green opening SSB 180° upside down	3675103005	3675106005	3675105005	3 nm
All-round green opening SBB 180° upside down	3675103006	3675106006	3675105006	3 nm
All-round green (2=360°) upside down	3675103007	3675106007	3675105007	3 nm
All-round red opening SSB 180° upside down	3675203005	3675206005	3675205005	3 nm
All-round red opening SBB 180° upside down	3675203006	3675206006	3675205006	3 nm
All-round red (2=360°) upside down	3675203007	3675206007	3675205007	3 nm
All-round green over red/red over green	3675303000		3675305000	3 nm
All-round white over red /red over white	3675303200		3675305200	3 nm
All-round white over green /green over white	3675303400		3675305400	3 nm
All-round green / red SSB 180° / All-round red / green SSB 180°	3675303001		3675305001	3 nm
All-round green / red SBB 180° / All-round red / green SBB 180°	3675303002		3675305002	3 nm
All-round green / red or red / green (2=360°)	3675303003		3675305003	3 nm
All-round white / red SSB 180° / red / white SSB 180°	3675303201		3675305201	3 nm
All-round white / red SBB 180° / red / white SBB 180°	3675303202		3675305202	3 nm
All-round white / red or red / white (2=360°)	3675303203		3675305203	3 nm
All-round white / green SSB 180° / All-round green / white SSB 180°	3675303401		3675305401	3 nm
All-round white / green SBB 180° / All-round green / white SBB 180°	3675303402		3675305402	3 nm
All-round white / green or green / white (2=360°)	3675303403		3675205403	3 nm

Type of Navigation light Double tier	Series 75D Arctic			Visibility Range
	24 Vdc	115 / 230 Vac	115 / 230 Vac	
Main system / Hauptsystem	24 Vdc	115 / 230 Vac	115 / 230 Vac	
Reserve system / Ersatzsystem		24 Vdc	Vac	
Starboard / Steuerbord	3678153000	3678156000	3678155000	3 nm
Port / Backbord	3679253000	3679256000	3679255000	3 nm
Masthead / Topp	3676053000	3676056000	3676055000	6 nm
Stern white / Heck weiss	3677753000	3677756000	3677755000	3 nm
Stern yellow / Heck gelb	3677453000	3677456000	3677455000	3 nm
All-round white / Signal weiss	3675753000	3675756000	3675755000	3 nm
All-round green / Signal grün	3675153000	3675156000	3675155000	3 nm
All-round red / Signal rot	3675253000	3675256000	3675255000	3 nm
All-round yellow / Signal gelb	3675453000	3675456000	3675455000	3 nm
All-round white (2=360°) opening SSB 180°	3675753001	3675756001	3675755001	3 nm
All-round white (2=360°) opening SBB 180°	3675753002	3675756002	3675755002	3 nm
All-round white (2=360°)	3675753003	3675756003	3675755003	3 nm
All-round green (2=360°) opening SSB 180°	3675153001	3675156001	3675155001	3 nm
All-round green (2=360°) opening SBB 180°	3675153002	3675156002	3675155002	3 nm
All-round green (2=360°)	3675153003	3675156003	3675155003	3 nm
All-round red (2=360°) opening SSB 180°	3675253001	3675256001	3675255001	3 nm
All-round red (2=360°) opening SBB 180°	3675253002	3675256002	3675255002	3 nm
All-round red (2=360°)	3675253003	3675256003	3675255003	3 nm
All-round white hoisting	3675753004	3675756004	3675755004	3 nm
All-round green hoisting	3675153004	3675156004	3675155004	3 nm
All-round red hoisting	3675253004	3675256004	3675255004	3 nm

Type of Navigation light Double tier	Series 76ND	Series 76ND Arctic	Visibility Range
Starboard / Steuerbord	3678163000	3678173000	3 nm
Port / Backbord	3679263000	3679273000	3 nm
Masthead / Topp	3676063000	3676073000	6 nm
Stern white / Heck weiss	3677763000	3677773000	3 nm
Stern yellow / Heck gelb	3677463000	3677473000	3 nm
All-round white / Signal weiss	3675763000	3675773000	3 nm
All-round green / Signal grün	3675163000	3675173000	3 nm
All-round red / Signal rot	3675263000	3675273000	3 nm
All-round yellow / Signal gelb	3675463000	3675473000	3 nm
All-round white (2=360°) opening SSB 180°	3675763001	3675773001	3 nm
All-round white (2=360°) opening SBB 180°	3675763002	3675773002	3 nm
All-round white (2=360°)	3675763003	3675773003	3 nm
All-round green (2=360°) opening SSB 180°	3675163001	3675173001	3 nm
All-round green (2=360°) opening SBB 180°	3675163002	3675173002	3 nm
All-round green (2=360°)	3675163003	3675173003	3 nm
All-round red (2=360°) opening SSB 180°	3675263001	3675273001	3 nm
All-round red (2=360°) opening SBB 180°	3675263002	3675273002	3 nm
All-round red (2=360°)	3675263003	3675273003	3 nm
All-round white hoisting	3675763004	3675773004	3 nm
All-round green hoisting	3675163004	3675173004	3 nm
All-round red hoisting	3675263004	3675273004	3 nm
All-round white opening SSB 180°upside down	3675763005	3675773005	3 nm
All-round white opening SBB 180°upside down	3675763006	3675773006	3 nm
All-round white (2=360°) upside down	3675763007	3675773007	3 nm
All-round green opening SSB 180°upside down	3675163005	3675173005	3 nm
All-round green opening SBB 180°upside down	3675163006	3675173006	3 nm
All-round green (2=360°) upside down	3675163007	3675173007	3 nm
All-round red opening SSB 180°upside down	3675263005		3 nm
All-round red opening SBB 180°upside down	3675263006		3 nm
All-round red (2=360°) upside down	3675263007		3 nm
All-round green over red/red over green	3675363000		3 nm
All-round white over red /red over white	3675363200		3 nm
All-round white over green /green over white	3675363400		3 nm
All-round green / red SSB 180° / All-round red / green SSB 180°	3675363001		3 nm
All-round green / red SBB 180° / All-round red / green SBB 180°	3675363002		3 nm
All-round green / red or red / green (2=360°)	3675363003		3 nm
All-round white / red SSB 180° /red / white SSB 180°	3675363201		3 nm
All-round white / red SBB 180° /red / white SBB 180°	3675363202		3 nm
All-round white / red or red / white (2=360°)	3675363203		3 nm
All-round white / green SSB 180° / All-round green / white SSB 180°	3675363401		3 nm
All-round white / green SBB 180° / All-round green / white SBB 180°	3675363402		3 nm
All-round white / green or green / white (2=360°)	3675363403		3 nm