



TYPE APPROVAL CERTIFICATE



N. ELE254518CS

This is to certify that the product below is found to be in compliance with the applicable requirements of the RINA type approval system.

<i>Description</i>	Navigation Lights
<i>Type</i>	NaviLED PRO (2NM / 3NM) Port, Starboard, Stern NaviLED Compact (2NM) Port, Starboard, Stern, Towing NaviLED 360
<i>Applicant</i>	Hella Marine 81-83 Ben Lomond Crescent PO Box 51-427, Pakuranga Auckland 2010 New Zealand
<i>Manufacturer</i>	Hella Marine 81-83 Ben Lomond Crescent PO Box 51-427, Pakuranga Auckland 2010 New Zealand
<i>Testing Standards</i>	COLREG 1972 (ref. to Italian Law n. 1085 _27 th December 1977 and EN 14744:2005 (as applicable)

Issued in Genova on October 24, 2018

This certificate is valid until October 24, 2023

RINA Services S.p.A.

Valerio Bonanni



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Navigation light for recreational vessels having length L = 12m to 50m

Type : NavILED PRO (2NM)

Port light	2LT 959 900 - 0xx
Starboard light	2LT 959 908 - 0xx
Stern light	2LT 959 909 - 0xx

- rated voltage: 12 Vdc and 24 Vdc
- mechanical protection : IP 67
- max supply voltage variation allowed : 9 Vdc to 33 Vdc

Drawings: 959 900-xx V02, 959 908-xx V02, 959 909-xx V01

Test Reports:

HELLA doc n. HNZ403 / 2LT 959 900 - xxx (22/02/11), HNZ403 / 2LT 959 908 - xxx (22/02/11), HNZ403 / 2LT 959 909 - xxx, (22/02/11) _ (supply voltage variations)

TESTLAB doc. n. U61617 (29/09/06) _ (environmental and IP protection)

EMC Technologies (NZ) Ltd doc. n. 100501.1 and n. 100502.1 (10/06/10) _ (immunity and emissions)

IMANNA (Colreg requirements for 12Vdc and 24Vdc)
n. 16674-5 (Dec/21/2004) and 16674-6 (Dec/21/2004)
n. 16674-7 (Dec/29/2004) and 16674-8 (Dec/29/2004)
n. 16674-11 (Jan/14/2005) and 16674-12 (Jan/14/2005)

Navigation light for recreational vessels having length L = 50 meters or more

Type : NavILED PRO (3NM)

Port light	2LT 959 900 - 2xx
Starboard light	2LT 959 908 - 2xx
Stern light	2LT 959 909 - 2xx

- rated voltage: 12 Vdc and 24 Vdc
- mechanical protection : IP 67
- max supply voltage variation allowed : 9 Vdc to 33 Vdc

Drawings: 959 900-2x V02, 959 908-2x V02, 959 909-2x V01

Test Reports:

HELLA doc: HNZ403 / 2LT 959 909 - xxx, (22/02/11) _ (supply voltage variations)

TESTLAB doc. n. U61617 (29/09/06) _ (environmental and IP protection)

EMC Technologies (NZ) Ltd doc. n. 100501.1, n. 100502.1 (10/06/10) _ (EMC immunity and emissions)

IMANNA (Colreg requirements for 12Vdc and 24Vdc)
n. 16674-3 (Dec/20/2004) and 16674-4 (Dec/20/2004)
n. 16674-1 (Dec/17/2004) and 16674-2 (Dec/17/2004)
n. 16674-11 (Jan/05/2005) and 16674-12 (Jan/05/2005)

N. ELE254518CS

Navigation light for recreational vessels having length L = 12 to 50 meters

Type: NaviLED COMPACT Series (2 NM)

Port light	2LT 980 520-0xx ;	Starboard light	2LT 980 520-2xx
Stern light	2LT 980 520-5xx ;	Towing light	2LT 980 520-6xx

- rated voltage: 12 Vdc and 24 Vdc
- mechanical protection : IP 67
- max supply voltage variation allowed : 8Vdc to 28 Vdc

Drawings: 2LT 980 520-0x V00, 2LT 980 520-2X V00, 2LT 980 520-5x V00 , 2LT980 520-6x V00

Test Reports:

HELLA doc n. HNZ603 / 2LT 980 520 - 0xx (08/11/2011), HNZ603 / 2LT 980 520-5xx (08/11/2011), HNZ603 / 2LT 980 520 - 2xx, (08/11/2011) (supply voltage variations)

TESTLAB doc. n. E082576E (15/12/2008) _ (EMC immunity and emission)

TESTLAB doc. n. U082576E1 (27/10/2008)_ (Environmental)

IMANNA docs. n. 17895-1 (Colreg requirements for Port side light_12Vdc - Red)
n. 17895-4 (Colreg requirements for Starboard side light _ 12Vdc - Green)
n. 17041-1 (Colreg requirements for Stern side light _ 12Vdc - White)
n. 17895-3 (Environmental for Port side light)
n. 17895-6 (Environmental for Starboard side light)
n. 17041-3 (Environmental for Stern side light)
n. 17608-1 (Environmental for Towing Light)

Navigation light for recreational vessels having length L = 12 to 50 meters

Type: NaviLED 360_all round lamp white / red / green (2NM)

2LT 959 910 - xxx ; 2LT 980 910-xx

- rated voltage: 12 Vdc and 24 Vdc
- mechanical protection: IP 67
- max supply voltage variation allowed: 9Vdc to 33Vdc

Drawings: 959 980 910 V00, 959 910-xx V00

Test Reports:

HELLA doc n. HNZ600 / 2LT 959 910 - 621 (supply voltage variation)

TESTLAB doc. n.U70101 (Environmental)

TESTLAB doc. n.E70101 (EMC immunity and emissions)

EMC Technologies (NZ) (EMC immunity and emissions)

TESTLAB doc. n. U70605 (Mechanical protection)

IMANNA docs n. 16614-1 (Colreg requirements for 12Vdc -White)
n. 16614-2 (Colreg requirements for 24Vdc -White)
n. 17096-1 (Colreg requirements for 24Vdc - Red)
n. 17096-4 (Colreg requirements for 24Vdc - Green)
n. 16614-4 (Environmental - White)
n. 17096-3 (Environmental -Red)
n. 17096-6 (Environmental - Green)

Remarks

Navigation lights to be installed according to COLREG 72 Requirements as well as the manufacturer instructions.