

EC CERTIFICATE TYPE EXAMINATION (MODULE B)

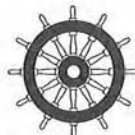
This is to certify that:

DNV GL SE, a Notified Body under the terms of the Marine Equipment Directive 96/98/EC of 20 December 1996, notified by the German Federal Ministry of Transport, Building and Urban Development, did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the requirements of Marine Equipment Directive (MED) 96/98/EC as amended, subject to any conditions in the schedule attached hereto.

Certificate No.	94 428 - 10 HH
Applicant	Northrop Grumman Sperry Marine B.V. German Branch Woltmanstr. 19 20097 Hamburg, GERMANY
Product Description	Gyro compass for high-speed-craft
Product Name	Type 4914 CC
Trade Name	NAVIGAT X MK1 HSC
Specified Standards	IMO Resolution A.821(19), A.694(17), MSC.36(63), MSC.97(73), MSC.191(79) ISO 16328(2014), IEC 60945(2002) incl. corr.1 (2008), IEC 62288(2014), IEC 61162-1 (2010), IEC 61162-2 (1998).
Related Directive	(EU) 2015/559
Equipment Section	Navigation equipment
Annex A.1 Item No.	A.1/4.31
Date of Re-issue	2016-06-13
Expiry Date	2021-06-12

DNV GL SE

Notified Body No.: 0098



Christine Mydlak-Röder
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Certificate No: 94 428 - 10 HH

Date of Re-issue: 2016-06-13

Schedule of Approval

Approval Documentation

Test report :06/6172-1-5 (60945 EMC), 6052a/07 (60945 Env), 6343b/08 (IPx6), 99/9109-1-1(60945 EMC), 4612/4030225/06 (ISO16328, IEC 61162)

Technical Data

The Northrop Grumman Sperry Marine Gyrocompass NAVIGAT X MK1 HSC comprises of the following equipment necessary for functioning:

Mastercompass:	NAVIGAT X MK1	Type: 4914 CC
	or 4914 BA (MOD 10 HSC), or 4914 BB (MOD 7 HSC)	
With		
Gyrosphere:	Type: 4911 AA	
	or 5000 AA	
And		
Container Mod. 10/2	Type: 4991-2000	
or Container Mod. 7/2	Type: 4991-3000	
or Container Mod. 10/3	Type: 4991-4000	
Heading Management System NAVITWIN IV	Type: 4994	
The following repeater may be used:		
Steering repeater (console mounted)	Type: 5016 AA	
Steering repeater (console mounted)	Type: 4881	
Steering repeater (console mounted)	Type: 4881 AA	
Steering repeater (console mounted)	Type: 5016 AB	
Steering repeater (console mounted)	Type: 4881 AD	
(Magnetic, only in connection with NAVITWIN)		
Repeater (bulkhead mounted)	Type: 5016 AC	
Repeater (bulkhead mounted)	Type: 4881 AC	
Repeater (bulkhead mounted)	Type: 4881 AK	
Bearing repeater	Type: 5016	
Bearing repeater	Type: 4881 AB	
Bearing repeater	Type: 4881 AM	
with		
Bearing repeater stand	Type: 4622 AB or 4622 AC or 4622 AD	
Bearing repeater stand (Sperry)	Type: 1812783	
Bearing repeater bracket	Type: 4890	
Bearing repeater bracket (height adjustable)	Type: 4905	
Terminal box	Type: 4884	
Terminal box	Type: 4894	
Options:		
Compass Monitor NAVITWIN III	Type: 4923	
Voyage Data Printer	Type: 4805	
(only in connection with NAVITWIN)		
Fluxgate Coil for Magnetic Compass	Type: 4863	
Gyro Compass Control Unit	Type: 4926	
Digital Tape Repeater	Type: DTR 600	
Universal Digital Repeater (UDR)	Type: 4891	
Multifunction Display NAVIDATA	Type: 4806 AC	

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Multifunction Display	NAVIDATA	Type: 4806 AD	
Multifunction Display	NAVIDATA	Type: 4806 AE	
Switch over box		Type: 4932	
Splitter box		Type: 4936 or 4992	
Optoisolator		Type: 55555	
Power Supply		Type: 2568	
Documentation:			
Operation, Installation and Service Manual	NAVIGAT X MK 1		056343 Rev. C , 08 May 2008
Operation, Installation and Service Manual	Repeater Compass System		056261 Rev. D, 04 May 1998
Operation, Installation and Service Manual	Switch-Over Unit		056318 Rev. A , 15 Sep 1999
Operation, Installation and Service Manual	NAVITWIN IV		056344 Rev. A , 16 Mar 2006
Operation, Installation and Service Manual	Universal Digital Repeater		056351 Rev. B , 04 Feb 2008

Remarks

None

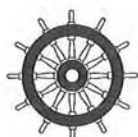
Limitations on the acceptance or use of the product

none

Notes:

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV GL SE, as the Notified Body, of any modifications or changes to the approved equipment. 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.

An 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), as allowed by the "Agreement between the European Community and the United States of America on Mutual Recognition of Certificates of Conformity for Marine Equipment", signed February 27th 2004.



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.