

# EC CERTIFICATE TYPE EXAMINATION (MODULE B)

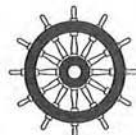
This is to certify that:

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.	<b>37 757 - 12 HH</b>
Applicant	<b>Northrop Grumman Sperry Marine B.V. German Branch Woltmanstr. 19 20097 Hamburg, GERMANY</b>
Product Description	<b>Gyro Compass</b>
Product Name	<b>Type 5021</b>
Trade Name	<b>NAVIGAT 3000</b>
Specified Standards	<b>IMO Resolution A.424 (XI), A.694(17), MSC.191(79) ISO 8728 (2014), IEC 60945, (2002) incl. corr. 1(2008), IEC 62288 (2014), IEC 61162-1 (2010), IEC 61162-2(2009)).</b>
Related Directive	<b>(EU) 2015/559</b>
Equipment Section	<b>Navigation equipment</b>
Annex A.1 Item No.	<b>A.1/4.3</b>
Date of Re-issue	<b>2016-06-13</b>
Expiry Date	<b>2021-06-12</b>

**DNV GL SE**

**Notified Body No.: 0098**



*Christine Mydlak-Röder*  
**Christine Mydlak-Röder**

Certificate No: 37 757 - 12 HH

Date of Re-issue: 2016-06-13

**Schedule of Approval**

**Approval Documentation**

Test report : Treo 047-12, Treo 057-12, Treo 082-12, BSH 762 NAVIGAT 3000, 120605-1-d\_NG\_Skorsby, 120606-1-d\_NG 3000\_SerialIn.

**Technical Data**

The Northrop Grumman Sperry Marine Fiber-Optic Gyrocompass NAVIGAT 3000 comprise of the following equipment necessary for functioning:

Mastercompass: NAVIGAT 3000 Type: 5021  
 Interface and power supply unit: Type: 4902  
 Control and Display Unit: Type: 4995

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  
 Prismatic azimuth device PV 23 Type: 2535  
 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

Digital Tape Repeater Type DTR 600  
 Universal Digital Repeater (UDR) Type: 4891  
 Multifunction Display NAVIDATA Type: 4806 AC  
 Multifunction Display NAVIDATA Type: 4806 AD  
 Multifunction Display NAVIDATA Type: 4806 AE

Switch over box Type: 4932

Documentation:

**Certificate No: 37 757 - 12 HH**

**Date of Re-issue: 2016-06-13**

Operation, Installation and Service Manual NAVIGAT 3000 2012	056362 Rev. A , 13 April
Operation, Installation and Service Manual Repeater Compass System 2010	056359 Rev. A, 19 March
Operation, Installation and Service Manual Switch-Over Unit 1999	056318 Rev. A , 15 Sep.
Operation, Installation and Service Manual NAVITWIN IV 2009	056350 Rev. A , 23 Oct.
Operation, Installation and Service Manual Universal Digital Repeater 2008	056351 Rev. B , 04 Feb.

**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.