

## EC TYPE EXAMINATION (MODULE B) CERTIFICATE

This is to certify that :

LLOYD'S REGISTER VERIFICATION LIMITED (LRV), specified as a "notified body" under the terms of The Merchant Shipping (Marine Equipment) Regulations S.I. 1999 No. 1957, did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the essential Navigation COLREG 72 requirements of Marine Equipment Directive (MED) 96/98/EC as modified by Commission Directives 98/85/EC, 2001/53/EC, 2002/75/EC, 2002/84/EC, 2008/67/EC, 2009/26/EC, 2010/68/EU, 2011/75/EU, 2012/32/EU, 2013/52/EU and 2014/93/EU subject to any conditions in the Design Appraisal Document attached hereto.



<b>Manufacturer</b>	MORS-SMITT B.V
<b>Address</b>	Vrieslantlaan 6 3526 AA Utrecht Netherlands NL
<b>Annex A1 Item</b>	<b>A.1/4.20 RUDDER ANGLE INDICATOR</b>
<b>Product Type</b>	<b>RCI-400</b>
<b>Product Description</b>	Rudder Overhead Indicator Including SCB
<b>Specified Standard</b>	EN 60945 (2002) including IEC 60945 Corrigendum 1 (2008) ISO 20673 (2007)

The attached Design Appraisal Document (schedule) forms part of this certificate.

This certificate remains valid unless cancelled or revoked, provided the conditions in the attached schedule are complied with and the equipment remains satisfactory in service.

Date of issue 11 August 2015 Expiry date 10 August 2020

Certificate No. MED 1500017 Signed

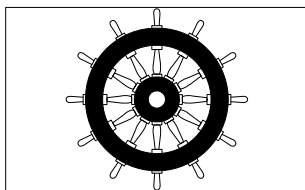
  
Lloyd's Register Verification Ltd  Lloyd's Register

Sheet No 1 of 3

Name LR427.2013.12 P A Huntley-Hawkins  
For and on behalf of Lloyd's Register Verification  
LRV EC Distinguishing No. 0038

Note:

This certificate is not valid for equipment; the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify the notified body named on this certificate of any modification or changes to the equipment in order to obtain a valid Certificate.



0038/yy

Subject to compliance with the conditions in the attached Design Appraisal Document (schedule), which forms part of this certificate, and those of Articles 10.1(i) and 11 of the Directive, the Manufacturer is allowed to affix the "Mark of Conformity" to the Product described herein.

yy Last two digits of year mark affixed.

**This certificate is issued under the authority of the MCA.**

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Register

## Lloyd's Register Verification Limited

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### DESIGN APPRAISAL DOCUMENT

Date 11 August 2015	Quote this reference on all future communications MTES/ETS/MH/PAHH/W04071629/WP21593458
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#### ATTACHMENT TO EC TYPE EXAMINATION (MODULE B) CERTIFICATE No. MED 1500017

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions and European Union legislation for the EC Type Examination of Marine Equipment for use on Merchant Ships Registered in the European Economic Area.

This Design Appraisal Document (schedule) forms part of the Certificate.

#### APPROVAL/EXAMINED DOCUMENTATION

2571 Form	09-Apr-2015
Lloyd's Register GTC Southampton	26-Aug-2015
Email from LR	11-Aug-2015

Documentation Previously Listed in 1000024/M3:

Lloyd's Register London Email	17.07.2009
Lloyd's Register London Email	23.12.2009
Lloyd's Register London Email	15.01.2010
Lloyd's Register London Email	10.08.2010
Lloyd's Register London Email	11.08.2010

#### DATA SHEETS

Signal Control Box Manual	Undated
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#### DRAWINGS

Schematic Drawing 480.307.851	29.01.2008
Schematic Drawing 48.03.07.820	10.01.2006
Label Drawing 500.009.789	29.07.2010
Label Drawing 500.009.790	29.07.2010
SBD, RCI-400 and D3v192S Label Drawing	Undated

#### TEST REPORTS

DARE EMC Test Report Number 08C00579RPT01	23.07.2008
DARE EMC Test Report Number 08C00579RPT02	30.07.2010
DARE EMC Test Report Number 10C00570RPT01	30.07.2010
Nieaf-Smitt Performance Test Report	05.08.2010
LRQA ISO 9001:2008 Certificate Number RQA663021	03.04.2009

#### CERTIFICATES

ISO 9001:2008	30-Apr-2014
LR Type Approval Certificate 0/30018(E4)	22-Apr-2014



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#### THE FOLLOWING MED SPECIFIED STANDARDS ARE NOT APPLICABLE TO THIS PRODUCT

IEC 61162 series  
IEC 62288:2008 Ed.1.0 (2008)

#### CONDITIONS OF CERTIFICATION

1. Production items of the subject equipment are to be manufactured in accordance with either an approved Production Quality Assurance system (Module D), a Product-Quality assurance system (Module E) or a Product Verification Process (Module F). The wheelmark cannot be affixed to the product until a conformity assessment module is in place.
2. Each item, batch or lot of the equipment is to be issued with a "Declaration of Conformity" and have the "Mark of Conformity" affixed after a conformity assessment module is in place.
3. If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.
4. For the use in enclosed areas that are not susceptible to salt mist only.
5. To be used in conjunction Nieaf-Smitt B.V Signal Control Box SCB-V or equivalent MED certified solution

#### SOFTWARE VERSIONS

Software version V2.1

#### PLACE OF PRODUCTION

MORS-SMITT B.V,  
Vrieslantlaan 6,  
3526AA Utrecht,  
Netherlands

*P.A. Huntley-Hawkins*

Lloyd's Register Verification Ltd



LR427 2013.12

P.A.Huntley-Hawkins  
For and on behalf of Lloyd's Register Verification  
LRV EC Distinguishing No. 0038