



EC TYPE EXAMINATION (Module B)

Certificate N. MED178616CS001



This is to certify that RINA, specified as Notified Body N° 0474 by the Italian “Ministero delle Infrastrutture e dei Trasporti Direzione Generale per la navigazione ed il Trasporto Marittimo ed Interno” on 25 November 1998, did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the Navigation Equipment requirements of Marine Equipment Directive (MED) 96/98/EC as modified by Directive 2015/559/EU

MED Item N°	A. 1/ 4.20
Description	Rudder angle indicator
Type	Rudder angle indication system IAB 13446 including: <ul style="list-style-type: none">- TAB 40236 transmitters (encoder);- AMP 12294 or AMP 12295 Amplifier;- ALM 13024 Power supply;- IAB 11994 Indicator Ø 120 mm;- IAB 10595 Panoramic Ceiling Indicator Ø 370 mm; Rudder angle indication system IAB 13445 including: <ul style="list-style-type: none">- TAB 40234 (resistive transmitter);- AMP 12298 or AMP 12299 Amplifier;- IAB 11994 Indicator Ø 120 mm;- IAB 10595 Panoramic Ceiling Indicator Ø 370 mm; Rudder angle indicators: <ul style="list-style-type: none">- IAB 17272 (72x72mm); IAB 19696 (96x96mm); IAB 14444 (144x144mm);- IAB 20080 (Ø 80mm); IAB 20100 (Ø 100mm); Rudder angle resistive transmitters: <ul style="list-style-type: none">- TAB 40204; TAB 40205
Applicant	SAN GIORGIO S.E.I.N. Srl Via A. Pedullà 59, 16165 Genova- Italy
Testing Standards	EN 60945 (2002) + Corrigendum 1 (2008), ISO 20673 (2007), IEC 62288 ed. 2.0 (2014-07)
Reference standards	Solas Reg. V/19; IMO Res. A.526 (13), IMO Res. A.694 (17), IMO Res. MSC.36 (63) - (1994 HSC code) 13, IMO Res. MSC.97 (73) - (2000 HSC code) 13, IMO Res. MSC.191 (79)

Issued at Genoa on
July 28, 2016

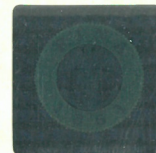
This Certificate is valid until
July 28, 2021

This certificate consists of this sheet plus an attachment:
(2 pages)

Franca Parisi
RINA Services S.p.A.



ATTACHMENT TO CERTIFICATE Nr. MED 178616CS001



Manufacturer

SAN GIORGIO S.E.I.N. Srl

Place of Manufacturer

**Via A. Pedullà 59
16165 Genova
Italy**

1) Product description:

Rudder Angle Indication Systems, model IAB13445 and IAB13446

S.E.I.N. Technical documents

Service Manual M031202 Rev. 03 (20/05/2011)

Letter ref. 51/11/MM (30/05/2011)

Letter ref. 44/11/MM (16/05/2011)

Test reports:

E.M.I.T. LAS Report n. RP 3339 F1A 95 (05/95)

C.M.R Report n. M-025a/95 (18/09/1995) and *C.M.R.* Report n. M-025b/95 (18/09/1995)

EMC Report n. 1103/2003 (24/11/2003) and *EMC* Report n. 1104/2003 (24/11/2003)

San Giorgio S.E.I.N. Reports n. R031030A (20/01/2004) and Report n. R031031A. (20/01/2004)

RINA Report n. 2003CS013038 (09/04/2004)

RINA Report n. 950316

SAN GIORGIO S.E.I.N. Statement n. 44/11/MM (16/05/2011)

TesLab Report n. 112021N (02/05/2011)

Rudder angle Indicators, models IAB17272, IAB20080, IAB19696, IAB20100, IAB14444

Technical documents

San Giorgio S.E.I.N. Instruction manual n. M100914 rev. 1.2

San Giorgio S.E.I.N. Description n. M100910 (release 21/05/2013)

Dwgs. D110509, D110804, D100724, D100908

Test report:

TesLab Report n.111003F (18/04/2011)

Rudder angle Resistive Transmitters, models TAB 40204, TAB 40205

Technical documents

Dwg. 891109, D40205, M100910

Test Report:

TesLab Report n. 111004A (29/04/2011)

Remark:

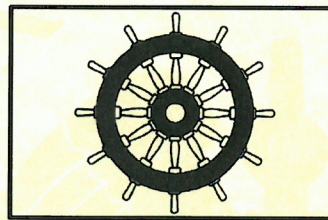
This certificate annuls and replaces the previous n. MED167813CS issued on May 28,2013



ATTACHMENT TO CERTIFICATE Nr. MED 178616CS001



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 control phase module (D, E or F) of Annex B of the Directive is fully complied with a written inspection agreement with a Notified Body



XXXX/YY

"WHEELMARK FORMAT"

XXXX *Notified Body number undertaking surveillance module*
YY *Last two digits of year mark affixed*

General condition for the approval

- a) The initial conditions verified by RINA at the time of the approval are to be maintained.
- b) Any changes to the initial conditions are to be promptly communicated to RINA, which reserves the right to repeat the relevant assessment.
- c) This certificate will no longer be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with RINA.
- d) RINA personnel are to be allowed to witness the performance of activities, upon their request.
- e) The activities are to be carried out in compliance with the RINA Rules and/ or other applicable Rules
- f) Should the specified regulations or standards be amended during the validity of this certificate, the product is to be reapproved prior to it being placed on board vessels to which the amended regulation or standards apply.



Franca Parisi