



**TYPE APPROVAL CERTIFICATE
N. ELE195213CS/007**

**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>	Temperature switches
<i>Type</i>	Navistat ISN / ISNT : 471 and 472
<i>Applicant</i>	Trafag AG Industriestrasse 11 CH-8608 Bubikon Switzerland
<i>Manufacturer</i>	Trafag, spol. s r.o. Vilémovská 2129 CZ-347 01 Tachov Czech Republic
<i>Testing Standards</i>	Rules for the Classification of Ships - Part C - Machinery, Systems and Fire protection - Ch.3, Sect.6, Tab.1

Issued in **Genova** on **July 01, 2013**

This certificate is valid until **July 01, 2018**

RINA

Valerio Bonanni



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Main features:

Temperature switches for marine application: **Navistat ISN / ISNT 471 and 472**

Sensor housing: copper

Accuracy: $\pm 2\%$ FS

Repeatability: $\pm 0,5\%$ FS

Switching differential: not adjustable

Housing : AlSi9Cu3

Protection: IP65

Capillary tube length: 3000 mm only with flexible metal tube

Switching differential			
Range (°C)	+20... +110	+20... +150	+40... +300
Sensor max (°C)	115	165	330
Microswitch 23	4,5	5	8
Microswitch 26	7,5	8	14
Sensor diameter	7mm	9mm	12mm

Microswitch 23: improved vibration resistance; fixed switching differential, not adjustable

Microswitch 26: high vibration resistance; fixed switching differential, not adjustable

Microswitch 12: temperature switch with locking, high vibration resistance

Technical description

DataSheet: 471 / 472 Navistat ISN / ISNT; doc. n° 1.1.1.12 (05/2006)