



TYPE APPROVAL CERTIFICATE



N. ELE162518CS001

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 May 21, 2018

This certificate is valid until July 01, 2023

RINA Services S.p.A.

Valerio Bonanni



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Main features:

Temperature switches: **Navistat ISN / ISNT 471 and 472**
Sensor housing: copper
Protection tube: brass nickel plated
Scale accuracy: $\pm 2 \%$ FS
Repeatability: $\pm 0,5 \%$ FS
Output signal : floating change-over contact
Switching differential: not adjustable
Housing : AlSi9Cu3 coated
Degree of mechanical 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 12 (limiter) (°C)	7,5	8	14
Microswitch 23 Switching differential (°C)	4,5	5	8
Microswitch 26 Switching differential (°C)	7,5	8	14

Microswitch 12: temperature switch with locking, high vibration resistance

Microswitch 23: controller ; average switching differential

Microswitch 26: controller ; large switching differential

Technical description

DataSheet: Navistat ISN / ISNT 471 /472; doc. n° H72111I (01/2017)