



Confirmation of Product Type Approval

Company Name: TRAFAG AG

Address: INDUSTRIESTRASSE 11 Switzerland

Product: Temperature Switch

Model(s): "NAVISTAT" 471/472

Certificate Type	Certificate Number	Issue Date	Expiry Date
Product Design Assessment (PDA)	19-GD1914141-PDA	04-NOV-2019	03-NOV-2024
Manufacturing Assessment (MA)	18-MF3454317	14-FEB-2018	13-FEB-2023
Product Quality Assurance (PQA)	NA	NA	NA

Tier

3

Intended Service

Temperature switch for control, alarm and monitoring functions on AMS, ACC, ACCU ABCU classed vessels and offshore facilities.

Description

Temperature switch with sensor.

Ratings

Measuring ranges: +20...+110°C to +40...+300°C

Ambient temperature:

-30...+50°C (#45°C)

-30...+70°C (+45...+250°C)

-10...+70°C (>+250°C)

Output: floating change-over contact 250V AC, 15A (resistive load)

Repeatability: +/-0.5% FS typ

Scale accuracy: +/-2% FS typ

Degree of Protection: IP 65

Service Restrictions

Unit Certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including

inspection standards and tolerances, must be clearly defined.

Comments

1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.
2. Application and use are to be in accordance with the manufacturer's instructions.

Notes, Drawings and Documentation

Drawing No. H721111m Navistat 471/472, Datasheet, Revision: -,

Drawing No. V-18062 Navistat 471/472, Trafag Test Report dated 01.11.2018, Revision: -,

Drawing No. DOW_Syltherm800, Product technical data, Revision: -,

Drawing No. MSDS Syltherm800, Safety Datasheet, Revision: -,

Term of Validity

This Product Design Assessment (PDA) Certificate remains valid until 03/Nov/2024 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

ABS Rules

2019 Marine Vessels Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-8-3/1.7, 4-8-3/1.11, 4-8-3/1.17, 4-8-3/Table 1, 4-9-9/Table 1

2019 Mobile Offshore Units Rules 1-1-4/9.7, 1-1-A2, 1-1-A3, 4-3-3/5.13.1

2019 Facilities on Offshore Installations 1-1-4/9.7, 1-1/A2, 1-1/A3

International Standards

NA

EU-MED Standards

NA

National Standards

NA

Government Standards

NA

Other Standards

NA



A handwritten signature in blue ink, appearing to read "Joseph W. ...".

Corporate ABS Programs
American Bureau of Shipping
Print Date and Time: 19-Nov-2019 7:16

ABS has used due diligence in the preparation of this certificate, and it represents the information on the product in the ABS Records as of the date and time the certificate is printed.

If the Rules and/or standards used in the PDA evaluation are revised or if there is a design modification (whichever occurs first), a PDA revalidation may be necessary.

The continued validity of the MA is dependent on completion of satisfactory audits as required by the ABS Rules. The validity of both PDA and MA entitles the product to receive a **Confirmation of Product Type Approval**.

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or prior to the effective date of the ABS Rules and standards applied at the time of PDA issuance. ABS makes no representations regarding Type Approval of the Product for use on vessels, MODUs or facilities built after the date of the ABS Rules used for this evaluation.

Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. The manufacturer is responsible to maintain compliance with all specifications applicable to the product design assessment. Unless specifically indicated in the description of the product, certification under type approval does not waive requirements for witnessed inspection or additional survey for product use on a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS.

Due to wide variety of specifications used in the products ABS has evaluated for Type Approval, it is part of our contract that; whether the standard is an ABS Rule or a non-ABS Rule, the Client has full responsibility for continued compliance with the standard.

Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.