

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Pressure Switch**with type designation(s)
920/924/932

Issued to

Trafag AG
Bubikon, ZH, Switzerland

is found to comply with

DNV GL rules for classification – Ships, offshore units, and high speed and light craft**Application :****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.**

Temperature	D
Humidity	B
Vibration	B
EMC	B
Enclosure	B

Issued at **Hamburg** on **2020-02-12**for **DNV GL**This Certificate is valid until **2025-02-11**.DNV GL local station: **Augsburg**Approval Engineer: **Dariusz Lesniewski**

Joannis Papanuskas
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid. The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.



Product description

Differential Pressure Switch 920/924/932
Type 920: with display and adjusting screw
Type 924: without display, with adjusting screw
Type 932: with display and adjusting knob
Output: 1c/o - contact
Contact rating: 15A, 250V AC (resistive load)
Range (bar): -0.6...3.4 up to 1...16
Type-code.: 920/924/932-2374, -2376, -2377, -2378, -2379
 920/924/932-2674, -2676, -2677, -2678, -2679
Degree of protection: IP 65

Place of manufacture

Trafag spol.s.r.o.
CZ-3470 Tachov
Czech Republic

Approval conditions

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV GL, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV GL rules for classification of ships Pt.4 Ch.9 Control and monitoring systems.

Type Approval documentation

Data sheet: H72253q
Data sheets: E01764b, E01752a
Drawing: D 93210
Type approval assessment report issued at Tachov on 2019-12-13
Type approval assessment report issued at Augsburg on 2019-12-18

Tests carried out

Applicable tests according to class guideline DNVGL-CG-0339, December 2019.

Marking of product

The products to be marked with:

- manufacturer name
- model name
- serial number
- power supply ratings

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate



Job Id: **262.1-032809-1**
Certificate No: **TAA00002MM**

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE