



Type Approval Certificate

[Pressure Switch]

Initial Approval 12 November 2012
Manufacturer Trafag spol.s r.o.
 Vilemovska 2129 34701 Tachov, Czech Republic
Product Description Bellow-type Pressure switch
 (Picostat PST4B 9B4 with microswitch 42 and 84)

" See Appendix 1 "

Approval Condition " See Appendix 1 "

THIS IS TO CERTIFY that the above-mentioned product has been approved in accordance with the relevant requirement of this Society's Rules and / or of the recognized standards as follows.

Pt. 6, Ch. 2, Art. 301 of the Rules for Classification, Steel Ships.

This Certificate is valid until 11 November 2027

Issued at Busan, Korea on 6 January 2023



This certificate is signed electronically in accordance with IMO FAL.5/Circ.39/Rev.2. Validation and authentication of the certificate can be confirmed from "<http://e-cert.krs.co.kr>" by using the tracking No(ME23000853835) and certificate No.(HMB32779-AE005).



KOREAN REGISTER

*General Manager of
Marine & Ocean Equipment Team*

Note : 1. This certificate will be valid subject to complying with the approval conditions described on the certificate and/or on the Rules of this Society.
 2. This certificate will be invalid from the expiry date aforementioned unless the extension or renewal has been granted to the applicant or the manufacturer.
 3. Any significant modifications or changes in design or construction to the above product without approval from this Society will render this certificate invalid.
 4. Should the specified rules, regulations or standards be amended during the validity of this certificate, the product is to be re-approved by this Society in accordance with the requirements as amended.

Product Description and/or Approval Condition

Date of Issue : 6 January 2023

A. Product Description

1. Product Specification

- 1) Product Description
 - Sensor type: Bellow
 - Output Signal : Floating change-over contact
 - Switching differential: Not adjustable
 - Enclosure: IP65
 - Microswitches type :
 - a) 42 (Standard, Silver contacts)
 - Rating 250V AC / 6(1)A, 220V DC / 0.25(0.1)A, 110V DC / 0.5(0.2)A
 - 60V DC / 1(0.5)A, 24V DC / 3(2)A, 12V DC / 6(6)A
 - b) 84 (Gold plated contacts)
 - Rating max. 30V / 0.1(0.1)A, min. 5V / 5mA

2) Measuring range

| Measuring Range | (bar) | -0.6~3.4 | 0~4 | 0~6 | 1~10 | 1~16 | 2~25 | 4~40 |
|---------------------------|-------|----------|------|-------|---------|--------|--------|---------|
| | (psi) | -8~45 | 0~50 | 0~100 | 14~150 | 14~250 | 30~400 | 60~500 |
| Micro Switch Differential | (bar) | 0.2±0.1 | | | 0.4±0.2 | | 1.±0.6 | 1.2±0.8 |
| Max. pressure | (bar) | 12 | 12 | 12 | 24 | 24 | 40 | 50 |

2. Approved Drawings and Documents

- 1) Data sheet
 - H72367q, C14613 Rev. j, C20784 Rev. r, C11491 Rev. f, C31215 Rev. b

3. Test Reports, etc.

- 1) Environmental Test Report
 - Test Report No. V-09065 on 11 June 2009
 - Test Report No. V-11140 on 20 June 2012

B. Approval Condition

1. Application & Limitation

- 1) This approval is granted on the basis of the test reports and the approved documentation.
- 2) Degree of protection shall be complied with Rule Pt.6 Ch.1 Sec.2 201.2. (5).
- 3) The manufacturer should inform this Society of all kinds of revisions of the equipment including software. If the changes are recognized to affect functionality of the approved equipment, type test to confirm the reliability of the revised equipment may be performed in the presence of our surveyor.

2. Individual Product Cert. and Drawing Approval Requirement

- 1) Individual Product Certification is not required.

3. Marking

- 1) The product or packing is to be marked with the manufacturer's name and type designation on a suitable position.

4. Others

- 1) Test condition

| Test | Condition | Remark |
|-------------|------------------|--------|
| EMC | Not Applied | *1 |
| Temperature | -25 ~ +85°C | - |
| Vibration | Acceleration ±4g | - |

*1 : Non-power equipment

< End of Certificate >