



CERTIFICATE NUMBER  
EFFECTIVE DATE  
EXPIRY DATE  
ABS TECHNICAL OFFICE

20-2013086-PDA  
01-Jul-2020  
30-Jun-2025  
Hamburg Engineering Department

## CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

**SAMSON AG**

located at

**WEISSMUELLER STR. 3, D-60314 FRANKFURT, Germany**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

**Product Limit Switch**

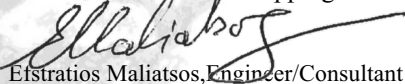
**Model 4747**

This Product Design Assessment (PDA) Certificate remains valid until 30/Jun/2025 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.

American Bureau Of Shipping

  
Efstratios Maliatsos, Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

## **SAMSON AG**

WEISSMUELLER STR. 3

D-60314 FRANKFURT

Germany

Telephone: +49 69 4009 0

Fax: +49 69 4009 1507

Email: samson@samsongroup.com

Web: www.samsongroup.com

**Tier: 2 - PDA Issued**

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**Product: Limit Switch**

**Model: 4747**

**Intended Service:**

Limit Switch (Position Sensor, Make electric signal by object position).

### **Description:**

Limit switch with inductive or electric limit contacts in type of protection Ex d (flameproof enclosure) or Ex ia/ic (intrinsic safety) for attachment to pneumatic linear and rotary actuators according to VDI/VDE 3845.

### **Rating:**

Supply Voltage: For electric limit switch 230 V AC or 125 V DC and for inductive limit switch 16 V DC;

Ambient temperature -25°C to +80 °C;

Degree of Protection: IP66;

Flameproof enclosure : II 2 G Ex db IIC T6...T4 Gb and II 2 D Ex tb IIIC T80 °C Db (IECEX PTB 09.0060X, KIWA 16ATEX0052 X, PTB 09 ATEX 1113 X);

Intrinsic safety:

- Type 4747-110... : II 2G Ex ia IIC T6 Gb and II 2D Ex tb IIIC T85°C Db IP66 (PTB 12 ATEX 2020);

- Type 4747-810...: II 3G Ex ic IIC T6 Gc, 3 G Ex nAc II T6 Gc and II 3 D Ex tc IIIC T85°C Dc IP66 (PTB 12 ATEX 2020);

### **Service Restriction:**

1. 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.

2. ATEX certified equipment is not to be installed in hazardous areas on U.S. vessels unless it can be proven to have been tested to the applicable IEC 60079 series standards by an independent laboratory accepted by the U.S Coast Guard. USCG MI Notice 01-12 (February 7, 2012). This restriction applies to the intrinsically safe type.

3. Limit switch is to be connected with suitable cable glands or conduit systems to meet the requirements in EN 60079-1 (flameproof enclosure).

### **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/Drawing/Documentation:**

Drawing No. EUT 6 Type 4747 Limit Switch T 4747 EN, Data Sheet, Revision: -, Pages: -

Drawing No. PTB 09 ATEX 1113 X en, ATEX Certificate, Revision: -, Pages: -

Drawing No. U190720E1, ENV Test Report, Phoenix Testlab, 08.04.2020, Revision: -, Pages: -

Drawing No. EB 4747 EN, Operating Instructions, Revision: -, Pages: -

Drawing No. ex\_4747-211\_iecex\_en\_rev00, IECEX Certificate, Revision: -, Pages: -

Drawing No. ex\_4747-x10\_atex-en\_rev0, ATEX Certificate, Revision: -, Pages: -

Drawing No. atex\_4747\_en\_rev00, ATEX Certificate, Revision: -, Pages: -

### **Terms of Validity:**

This Product Design Assessment (PDA) Certificate remains valid until 30/Jun/2025 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).

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**STANDARDS**

**ABS Rules:**

2020 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, 4-9-9/13.1, 4-9-9/Table 1

**National:**

NA

**International:**

NA

**Government:**

NA

**EUMED:**

NA

**OTHERS:**

NA