



CERTIFICATE NUMBER	25-0288293-PDA
EFFECTIVE DATE	11-Aug-2025
EXPIRY DATE	10-Aug-2030
ABS TECHNICAL OFFICE	Hamburg Engineering Department

CERTIFICATE OF Product Design Assessment

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

SAMSON AKTIENGESELLSCHAFT

located at

**WEISMUELLERSTRASSE 3, , FRANKFURT AM MAIN, Germany,
60314**

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**
Endorsements:
Tier: **2 - PDA Issued**

This Product Design Assessment (PDA) Certificate remains valid until 10/Aug/2030 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

Hong-Mei Zhao, 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 AKTIENGESELLSCHAFT

WEISMUELLERSTRASSE 3

FRANKFURT AM MAIN

Germany 60314

Telephone: +49 69 4009 0

Fax: +49 69 4009 1507

Email: samson@samsongroup.com

Web: www.samsongroup.com

Tier: 2 - PDA Issued

Product: Limit Switch

Model: 4747

Endorsements:

Intended Service:

Limit Switch issues an electric signal when the valve travel exceeds or falls below an adjusted limit.

Description:

The limit switch is equipped with a maximum of two inductive proximity switches or two electric microswitches. For most applications the contacts are adjusted to issue a signal when the actuator has reached one of its end positions.

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 $+80^{\circ}\text{C}$;

Degree of Protection: IP66;

Flameproof enclosure :

- Type 4747-210...: II 2G Ex db IIC T6...T4 Gb and II 2D Ex tb IIIC T80 °C Db (KIWA 16ATEX0052 X)

- Type 4747-211...: Ex db IIC T6...T4 Gb and Ex tb IIIC T80 °C Db (IECEX KIWA 16.0026X)

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. Ex certification is not covered by this certificate. Installation in hazardous areas is to be in accordance with any special conditions for safe use detailed in the applicable Ex certificate issued by a notified body.
3. 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.

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

Notes/Drawing/Documentation:

Drawing No. EUT 6 Type 4747 Limit Switch T 4747 EN, Data Sheet

Drawing No. PTB 09 ATEX 1113 X en, ATEX Certificate

Drawing No. U190720E1, ENV Test Report, Phoenix Testlab, 08.04.2020

Drawing No. EB 4747 EN, Operating Instructions

Drawing No. ex_4747-211_iecex_en_rev00, IECEx Certificate

Drawing No. ex_4747-x10_atex-en_rev0, ATEX Certificate

Drawing No. atex_4747_en_rev00, ATEX Certificate

-----Reval.2025-----

Drawing No. t47470en, Technical Datasheet, Revision: April 23

Drawing No. e47470en, Mounting and Operating Instructions, Revision: January 25

Drawing No. 206338-1, IP Protection Test Report, Revision: -, Dated: 05-03-2015

Drawing No. 206338-2, IP Protection Test Report, Revision: -, Dated: 23-03-2015

Drawing No. KIWA 16ATEX0052X-R0, EU - Ex Protection Test Report, Revision: 1, Dated: 18-10-2018

SAMSON AKTIENGESELLSCHAFT

WEISMUELLERSTRASSE 3

FRANKFURT AM MAIN

Germany 60314

Telephone: +49 69 4009 0

Fax: +49 69 4009 1507

Email: samson@samsongroup.com

Web: www.samsongroup.com

Tier: 2 - PDA Issued

Drawing No. IECEx KIWA 16.0026X-0_Certificate, IECEx - Ex Protection Test Report, Revision:0, Dated: 18-10-2018

Drawing No. 1045_0185_ptb_0, Ex d Type 4747-210 (ATEX / KIWA), Revision: 0.g, Dated: 21-02-2018

Drawing No. 1050_1318_ptb_0, Lid Ex d Stainless Steel, Revision: 0.f, Dated: 14-09-2017

Drawing No. 1050_1320_ptb_0, Ex d Stainless Steel (ATEX), Revision: 0.c, Dated: 27-04-2017

Drawing No. 1050_1322_ptb_0, Instrument Housing (Niro, ATEX), Revision: 0.j, Dated: 14-09-2017

Drawing No. 1050_1783_ptb_0, Revision: 0.a, Dated: 16-06-2016

Drawing No. 1050_1784_ptb_0, Revision: 0.e, Dated: 14-09-2017

Drawing No. 1045_0186_ptb_0, Revision: 0.f, Dated: 21-02-2018

Drawing No. 1050_1787_ptb_0, Revision: 0.a, Dated: 16-06-2016

Terms of Validity:

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STANDARDS

ABS Rules:

2025 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
2025 Mobile Offshore Units 1B-1-4/9.7, 1B-1-A2 & A3, 4-2-3/3.7 and 4-3-3/9.1

National:

NA

International:

NA

Government:

NA

EUMED:

NA

OTHERS:

NA