

## Certificate of Type Approval

This is to certify that the product detailed below will be accepted for compliance with the applicable Lloyd's Register Rules and Regulations and with the International Convention for the Safety of Life at Sea, (SOLAS), 1974, as amended, for use on ships and offshore installations classed with Lloyd's Register, and for use on ships and offshore installations when authorised by contracting governments to issue the relevant certificates, licences, permits etc.

<b>Manufacturer</b>	<b>Wescom Signal &amp; Rescue Germany GmbH</b>
<b>Address</b>	147,Vielaender Weg, Bremerhaven, 27574, Germany
<b>Type</b>	LIFEBUOYS SELF-ACTIVATING SMOKE SIGNALS
<b>Description</b>	Lifebuoy self-igniting light and self-activating smoke signal
<b>Type</b>	POSITION INDICATING LIGHT FOR LIFE SAVING-APPLIANCE LIFEBUOYS
<b>Trade Name</b>	Comet Light & Smoke Signal, Pains Wessex Manoverboard MK 9
<b>Specified Standard</b>	IMO Res. MSC.81(70), as amended IEC 60945:2002 incl. IEC 60945 Corr. 1:2008 ISO24408: 2005.

This certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid Certificate.

The attached Design Appraisal Document forms part of this certificate.

This certificate remains valid unless cancelled or revoked, provided the conditions in the attached Design Appraisal Document are complied with and the equipment remains satisfactory in service.



## DESIGN APPRAISAL DOCUMENT

Page 2 of 3  
Certificate No: LR25201135  
Issue Date: 09/08/2025  
Expiry Date: 08/08/2030  
Reference: UKITSO/TA/LSA/LT/TSO/25-041304/PRJ111005039498

### ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR25201135TATC

The undernoted documents have been appraised for compliance with the relevant requirements of International Conventions, and this Design Appraisal Document forms part of the Certificate.

This Design Appraisal Document forms part of the Certificate.

This Certificate is a Renewal of Certificate Numbers LR2309869SS, LR2010939SS, LR2309956TC and LR2010977TC.

#### **APPROVAL DOCUMENTATION**

Drawing No.	Rev. No	Issue Date	Drawing Title
5901 (2 sheets)	01	-	General Arrangement
5841 (8 sheets)	02	03/2016	General Arrangement
9537800	07	05/2022	Data Sheet Pains Wessex
9181600	-	-	Comet

#### **TEST REPORTS**

Prototype Test Report for the combined self-activating light and smoke signal, Report No 422012-00/422013-00, dated 24.10.2022 - 27.10.2022 and witnessed by a Surveyor acceptable to LR

Prototype Test Report for compact light unit lifebuoy lights, Report No 422012-00/422013-00, dated 24.10.2022 - 27.10.2022 and witnessed by a surveyor acceptable to LR

Vibration Test done by Federal Maritime and Hydrographic Agency (BSH), Test Report No.: 454.PIL/004/00001.c, dated 07<sup>th</sup> June 2022.

Solar Radiation Test, Test report No: 210430-00-01, dated 03/02/2022

Mould growth test, Test report No: PB-2022-19825-42308, dated 17.05.2022

INTERTEK, Test Report No 2224232KAU-004 Vibration Test and dated 29<sup>th</sup> July 2015.

LGA, Test Report No 471 1258 UV Resistance and dated 27<sup>th</sup> July 2001.

LGA, Test Report No 5411183 Mould Growth Test and dated 29<sup>th</sup> June 2001.

MSC.980 Prototype Test Report for the combined self-igniting light and self-activating smoke signal, Report No 9 1816 00/9 5378 00, dated 01.11.2013 & 14.01.2014 and witnessed by a Surveyor acceptable to LR.

#### **CONDITIONS OF CERTIFICATION**

1. Maximum stowage height: 100 metres.
2. Unless an individual Marine Administration specifies otherwise for their own fleet, lifebuoys self-activating smoke signals shall have an expiry date not later than 48 months after the month of manufacture
3. Detailed fitting, maintenance and in-service test instructions are to be provided to each purchaser or the subject equipment
4. The light unit is fitted with a sealed lithium battery and does not require replacement during the product's life.
5. Lights powered by batteries shall be marked with a means of determining their age. The date of expiry shall not exceed 50% of the service life of the battery as established by the battery manufacturer.
6. Each light is to be marked with the information required by the LSA Code Regulation 1.2.2.9 and ISO 24408 Paragraph 4.3.
7. The lifebuoy where the self-igniting light and self-activated smoke signal is fitted should be tested in accordance with MSC.81 (70), Part 1, Paragraph 1.8, in order to demonstrate that the lifebuoy is able to activate the light.
8. The arrangement and installation of the lifebuoy light and self-activating smoke signal on board are not part of this Design Appraisal or Certificate and are to be to the satisfaction of the Surveyors attending on board.

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.



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Page 3 of 3  
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9. If the specified standards are amended during the validity of this certificate, this product type is to be re-approved prior to it being supplied to vessels to which the amended standards apply.
10. Production items are to be manufactured in accordance with a quality control system which shall be maintained to ensure compliance with SOLAS Regulation III/5.
11. Production tests are to be conducted in accordance with the applicable requirements of IMO Resolution MSC.81 (70), Part 2 and and ISO 24408 (2005) Annexe A -Production testing and inspection procedures and must be recorded by the manufacturer. The sampling criteria shall be as per paragraph A.4.1 of ISO 24408 (2005) Annexe A. This does not preclude any further testing to additional requirements of the Marine Administration of the country where the ship is registered (i.e. the flag state) or those acting on behalf of that Administration.
12. All instructions or markings that accompany life-saving appliance or are printed directly on the appliances must be in both English and French, as per Canadian procedures for approval of life-saving appliances and fire safety systems, equipment and products document no. TP 14612E (02/2019) paragraph 2.2.1.3. However independent signage can be accepted in lieu of the instructions or marking required in paragraph 2.2.1.3 if it is in both English and French, highly visible (size, colour, position location), water and weatherproof and posted at each muster station and where the appliance is stored.
13. Should a change of Place of Production from that stated below be required i.e. where the stages of manufacture/assembly/testing of this product take place, the new Place of Production is to be advised to us prior to the change taking place. This Certificate will require to be updated for Approval to be maintained.

#### **PLACE OF PRODUCTION**

Wescom Signal & Rescue Germany GmbH  
Vielander Weg 147  
27574 Bremerhaven  
Germany

Lijo Thomas  
Senior Specialist  
Fire & Safety, Statutory Discipline Team  
UK&I Technical Support Office, Marine & Offshore  
Lloyd's Register EMEA

#### **Supplementary Type Approval Terms and Conditions**

*This certificate and Design Appraisal Document relates to type approval, it certifies that the prototype(s) of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein, it does not mean or imply approval for any other use, nor approval of any products designed or manufactured otherwise than in strict conformity with the said prototype(s)*



*This product has been verified to be fully in accordance with Transport Canada Procedure TP14621E "Procedures for approval of life-saving appliances and fire safety systems, equipment and products and is suitable to be placed on Canadian Flagged vessels.*

Lloyd's Register Group Limited, its affiliates and subsidiaries and their respective officers, employees or agents are, individually and collectively, referred to in this clause as 'Lloyd's Register'. Lloyd's Register assumes no responsibility and shall not be liable to any person for any loss, damage or expense caused by reliance on the information or advice in this document or howsoever provided, unless that person has signed a contract with the relevant Lloyd's Register entity for the provision of this information or advice and in that case any responsibility or liability is exclusively on the terms and conditions set out in that contract.