



Lloyd's
Register

Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

This certificate supersedes certificate number 15/20096 issued on 21.09.2015 which is hereby cancelled.

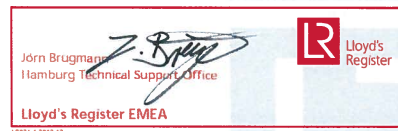
This certificate is issued to:

PRODUCER	Autronica Fire and Security AS Bromstadtveien 59 7047 Trondheim Norway	
DESCRIPTION	Fire alarm detectors	
TYPE	BH-200	Optical smoke detector
	BH-300①	Optical smoke detector
	BH-500①	Optical smoke detector
	BH-220	Multi sensor
	BH-320①	Multi sensor
	BH-520①	Multi sensor
	BD-200	Heat detector
	BD-300①	Heat detector
	BD-500①	Heat detector
	BD-501①	Heat detector
	BWP-100/20	Conduit box
	BWP-100/25	Conduit box

① with SelfVerify

Certificate No.	15/20096 (E1)
Issue Date	24 May 2017
Expiry Date	31 May 2019
Sheet	1 of 2

Lloyd's Register EMEA
71 Fenchurch Street, London EC3M 4BS



for Thorsten Wolff
Hamburg Technical Support Office
Lloyd's Register EMEA

Lloyd's Register EMEA
Is a subsidiary of Lloyd's Register Group

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 the '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.

This is a copy of an electronic document. In the event of any conflict or ambiguity between the copy and the electronic document, which is retained and published by Lloyd's Register, the original electronic and certified version shall always prevail.

APPLICATION	Marine, offshore and industrial applications suitable for use in environmental categories ENV1, and ENV2 as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 - July 2015
STANDARD	IEC 60092-504:2001 EN 54-7:2000 / A1:2002 / A2:2006 EN-54-5:2000 / A1:2002
OTHER CONDITIONS	Systems comprising the components described above are subject to a separate plan appraisal according to applicable Rules and Regulations when installed on LR classed vessels.

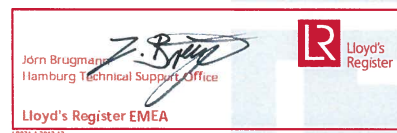
The Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.

The Design Appraisal Document No. HTS/ETS 35311-17 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Certificate No.	15/20096 (E1)
Issue Date	24 May 2017
Expiry Date	31 May 2019
Sheet	2 of 2

Lloyd's Register EMEA
71 Fenchurch Street, London EC3M 4BS



for Thorsten Wolff
Hamburg Technical Support Office
Lloyd's Register EMEA

Lloyd's Register EMEA
Is a subsidiary of Lloyd's Register Group

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 the '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.



Design Appraisal Document

Lloyd's Register EMEA
Hamburg Technical Support Office
Am Sandtorkai 41
20457 Hamburg
Telephone +49 (0)40 328107-0 Fax +49 (0)40 328107-480
E-mail: hamburg-technical-support@lr.org

Date
24 May 2017

Please quote this reference number on all future communications
HPC1562135/35311-17/AHB/TW/KW

THE LLOYD'S REGISTER'S TYPE APPROVAL SYSTEM, 2015
ISSUED TO: AUTRONICA FIRE AND SECURITY AS
FOR: FIRE ALARM DETECTORS
TYPE APPROVAL CERTIFICATE NO. 15/20096 (E1)

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register's Type Approval System Procedure TA14 and this Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

Unnumbered	Application Checklist-Appendix to Form 2502TA/2502TA MR	06.12.2016
Form 2502 (2016.05)	Request for Marine Services	29.03.2017
900776	ISO 9001:2008 Certificate, Autronica Fire and Security AS	27.05.2014
OSLI1700003	Production Quality Assessment, Autronica	06.01.2017
HTS/ETS 32515-15	LR Marine Design Appraisal Document, 2 pages	15.09.2015



Antje Herms-Bondzio
Senior Specialist
Hamburg Technical Support Office
Lloyd's Register EMEA
T +49 (0)40 328107-316
E antje.herms-bondzio@lr.org



for Thorsten Wolff
Senior Specialist
Hamburg Technical Support Office
Lloyd's Register EMEA
T +49 (0)40 328107-445
E thorsten.wolff@lr.org

FINAL ACCEPTANCE OF ACTUAL ITEM(S) DEPEND(S) ON SATISFACTORY SURVEY AND TESTING

Lloyd's Register EMEA
Is a member of Lloyd's Register group

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.

Lloyd's Register EMEA
Hamburg Technical Support Office
Am Sandtorkai 41
20457 Hamburg
Telephone +49 (0)40 328107-0 Fax +49 (0)40 328107-480
E-mail: hamburg-technical-support@lr.org

Date
24 May 2017

Please quote this reference number on all future communications
HPC1562135/35311-17/AHB/TW/KW

Supplementary Type Approval Terms and Conditions

Type Approval certifies that a representative sample 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 product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.

Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.

Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

Lloyd's Register EMEA reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the LR Type Approval System Procedure.

FINAL ACCEPTANCE OF ACTUAL ITEM(S) DEPEND(S) ON SATISFACTORY SURVEY AND TESTING

Lloyd's Register EMEA
Is a member of Lloyd's Register group