



TYPE APPROVAL CERTIFICATE
No. ELE186317XG

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	Fire detectors
<i>Type</i>	AUTROSAFE Series; - Automatic Fire detectors; - Manual call points; - Input/Output modules; - Safety barriers
<i>Applicant</i>	AUTRONICA FIRE AND SECURITY AS BROMSTADVEIEN 59 NO-7047 Trondheim NORWAY
<i>Manufacturer</i>	AUTRONICA FIRE AND SECURITY AS
<i>Place of manufacture</i>	BROMSTADVEIEN 59 NO-7047 Trondheim NORWAY
<i>Reference standards</i>	Rules for the Classification of Ships- Part C - Machinery, Systems and fire protection - Ch.3, Sect.6, Tab.1 and European Rules EN 54-5 , EN 54-7, EN 54-11, CEA GEI 1-049

Issued in **HAMBURG** on **December 7, 2017**. This Certificate is valid until **December 6, 2022**

RINA Services S.p.A.
Giuseppe Russo

This certificate consists of this page and 1 enclosure



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AUTROSAFE Series

- Automatic Fire detectors
- Manual call points
- Input/Output modules
- Safety barriers

Product description:

Analogue Addressable Heat Detectors in connection with mounting base BWA-100			
Model	Specifications	Test report	ATEX Safety Certificate
BD-200 detector head: BDH-200	P-BD200M/CE, R3-011009	LPC Lab. TE 89797 DNV 99-1491 rev.2	
BD-300 Self Verify detector head: BDH-300	P-BD300M/CE, R3-011009	LPC Lab. TE 89797, DNV 99-1491 rev.2	
BD-500 / Ex detector head: BDH-500 / Ex	P-BD 500Ex/CE, 990421	LPC Lab. TE92344 DNV Lab. 2000-1178 rev.1	Nemko 03 ATEX 218X marking: II 1 G Ex ia IIC T5 Ga Ta =70°C
BD-500 Self Verify detector head: BDH-500	P-BD500M/CE, R3-011207	LPC Lab. TE 89799, DNV 99-1491 rev.2	
BD-501 Self Verify detector head: BDH-501	P-BD501M/CE, R3-011009	LPC Lab. TE 200205 DNV 99-1491 rev.2	
BD-500/N detector head: BDH-500/N	P-BD500M/CE, R3 011207	LPC Lab. TE 89799 DNV 99-1491 rev.2	Nemko 03 ATEX 217X marking: II 3 G Ex ic IIB T4 Gc Ta: 50°C/70°C

Analogue Addressable Smoke Detector in connection with mounting base BWA-100			
Model	Specifications	Test Reports	ATEX Safety Certificate
BH-200 detector head: BHH-200	P-BH200M/CE, R3-011009	LPC Lab. TE 89702 DNV 99-1491 rev.2	
BH-300 Self Verify detector head: BHH-300	P-BH300M/CE, R3-011010	LPC Lab TE 89704 DNV 99-1491 rev.2	
BH-500 / Ex detector head: BHH-500 / Ex	P-BH500Ex/CE, 990421	LPC Lab. TE 92647 DNV 2000-1178 rev.2	Nemko 03 ATEX 218X marking: II 1 G Ex ia IIC T5 Ga Ta =70°C
BH-500 Self Verify detector head: BHH-500	P-BH500M/CE, R3-011010	LPC Lab. TE 89703 DNV 99-1491 rev.2	
BH-500/ N detector head: BHH-500/N	P-BH500M/CE, R3-011010	LPC Lab. TE 89703 DNV 99-1491 rev.2	Nemko 03 ATEX 217X marking: II 3 G Ex ic IIB T4 Gc Ta: 50°C/70°C



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AUTROSAFE Series

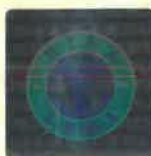
Analogue Adressable Combined Heat and Smoke Detectors with Self Verify with mounting base BWA-100			
Model	Specifications	Test Reports	ATEX Safety Certificate
BH-220 detector head: BHH-220	P-BH220M/CE, R3-011010	LPC Lab. TE 89809 DNV 99-1491 rev.2	
BH-320 detector head: BHH-320	P-BH320M/CE, R3-011010	LPC Lab. TE 89810, DNV 99-1491 rev.2	
BH-520 detector head: BHH-520	P-BH520M/CE, R3-011010	LPC Lab. TE 89808, DNV 99-1491 rev.2	
BH-520/ Ex detector head: BHH-520 / Ex	P-BH520Ex/CE, 990421	LPC- Lab. TE 92648 DNV 2000-1178 rev.2	Nemko 03 ATEX 218X marking: II 1 G Ex ia IIC T5 Ga Ta =70°C
BH-520/ N detector head: BHH-520/N	P-BH520M/CE, R3-011010	LPC Lab. TE 89808 DNV 99-1491 rev.2	Nemko 03 ATEX 217X marking: II 3 G Ex ic IIB T4 Gc Ta: 50°C/70°C

Manual Call - Point with Self Verify			
Model	Specifications	Test Reports	ATEX Safety Certificate
BF-300	P-BF300M/CE, R3-011009	LPC Lab. TE 89823, DNV 99-1491	
BF-300 M	P-BF300MM/CE, R3-011009	LPC Lab. TE 89823, DNV 99-1491	
BF-300 V2	116-P-BF300V2/CGB Rev. A	DNV 2009-3598 CNPP n. DE 08 00 73	
BF-501	P-BF501M/CE, R3-011009	DNV 99-1491	
BF-500 / Ex	P-BF500M2/CE, R3-011009	DNV 2000-1178 rev.2	Nemko 03 ATEX 218X marking: II 1 G Ex ia IIC T5 Ga Ta =70°C
BF-500 V2 /Ex	116-P-BF500V2EX	DNV 2009-3598 CNPP DE 08 0070	(*)
BF-501 / Ex	P-BF501M2/CE, R3-011009	DNV 2000-1178	Nemko 03 ATEX 218X marking: II 1 G Ex ia IIC T5 Ga Ta =70°C
BF-501 / N	P-BF501M/CE, R3-011009	DNV 99-1491 rev.2	Nemko 03 ATEX 217X marking: II 3 G Ex ic IIB T4 Gc Ta: 50°C/70°C
BF-510 WP-H	116-P-BF510WPH/CGB Rev. A	DNV 2009-3598 CNPP DE 08 00 71	

(*) Installation in hazardous areas is subject to the previous examination of the relevant safety certificates.

Electronic Sounder		
Model	Specifications	Test Reports
BBR-200 Addressable Sounder	P-BBR200M/CE, R3-011009	DNV 98-1390 rev.1, 99-1491 rev.2, 2000-1178 rev.2
BBR-52 Smart Buzzer	P-BBR52/CE Rev. A	DNV 2001-3416 rev.1

Safety Barrier			
Model	Specifications	Test Reports	ATEX Safety Certificate
BZ-500	P-BZ500M/CE, R3-011010	DNV2000-1178 rev.2	Nemko 03 ATEX 230 Marking: II (1) G [Ex ia Ga] IIC Ta: 60°C



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AUTROSAFE Series

Input / Output Modules			
Model	Specification	Test Reports	ATEX Safety Certificate
BN-300 Input Module	P-BN300M/CE, R3-011010	DNV 99-1491 rev.2	
BN-310 Single Relay Output Module	P-BN310M/CE, R3-011010	DNV 99-1491 rev.2	
BN-320 2 Inputs/ 1 Output	P-BN320M/CE, R3-011010	DNV 99-1491 rev. 2	
BN-320 / 2 Door Control Unit	P-BN320-2M/CE, R3-011010	DNV 99-1491 rev.2	
BN-320 / 4 Standard Control Unit	P-BN320-4M/CE, R3-011010	DNV 99-1491 rev.2	
BN-320/ 5 Sprinkler Control Unit	P-BN320-5M/CE, R3-011010	DNV 99-1491 rev.2	
BN-303 Single monitored Input Unit	116-P-BN303/CGB	CNPP - DE080074 CNPP - DE080074A DNV 2010-3107	
BN-304 Single monitored Input / Output unit	116-P-BN304/CGB	CNPP - DE080074 CNPP - DE080074A DNV 2010-3107	
BN-305 Dual monitored Input / Output unit	116-P-BN305/CGB rev.B	NEMKO 187264 NEMKO 187265 DNV 2010-3107	
BN-307 Monitored FAD Control unit	116-P-BN307/CGB rev.B	NEMKO 187266 NEMKO 187267 DNV 2010-3107	
BNB-330A Conventional Loop Interface	116-P-BNB330A/CGB	NEMKO E12044.00 NEMKO 187270 NEMKO 187271	
BNB-331 Conventional Loop Interface	116-P-BNB331/CGB rev.B	NEMKO E12044.00 NEMKO 187270 NEMKO 187271	
BNY-330 End of Line unit	BN-109A		
BN-500 Ex Input Unit	P-BN500M2/CE, R3-011010	DNV 2000-1178 rev.2	Nemko 03 ATEX 218X Marking: II 1 G Ex ia IIC T5 Ga Ta =70°C

Documents:

- DOP_0333-CPR-075244; DOP_0333-CPR-075245; DOP_0333-CPR-075247; DOP_0470-CPR-0031;
- DOP_1134-CPR-016; DOP_1134-CPR-017; DOP_1134-CPR-018;

Remarks:

- Installation requirements of manufacturer to be considered.
- This certificate replace the certificate no.: ELE262012CS.

HAMBURG December 7, 2017