

[1] EU-TYPE EXAMINATION CERTIFICATE

[2] Equipment or Protected System Intended for use
in Potentially explosive atmospheres
Directive 2014/34/EU

[3] EU-Type Examination Certificate Number: **Nemko 03ATEX218X** Issue **8**

[4] Equipment or Protective System: **Call Points, Heat, Smoke Detectors and Input Unit**

[5] Applicant/ Manufacturer: **Autronica Fire and Security AS**

[6] Address: **Haakon VII gt.4
7483 Trondheim
Norway**

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] Nemko AS, notified body number 0470, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report no. D0001378/01 - 304542

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0: 2012, EN 60079-11: 2012

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

[11] This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate

[12] The marking of the product shall include the following:



II 1G

Ex ia IIC T5 Ga, Tamb -20°C to +70°C

Oslo, 2016-06-06

Asle Kaastad
Certification Manager, Ex-products

[13] Schedule

[14] **EU-TYPE EXAMINATION CERTIFICATE No** **Nemko 03ATEX218X** **Issue 8**

[15] **Description of Product**

Point detectors for smoke, heat and manual call points. The units are designed to be used in fire alarm systems.

The detectors and call points must be connected to a certified intrinsically safe output circuit.

The smoke and heat detectors consists of a separate detector head, fitted to the socket BWA-100, by means of a bayonet socket. The sockets may alternative be mounted on the box BWP-100. This certificate do also cover a input unit type BN-500/EX. The input unit type is used to interface different types of signal devices of ON/OFF type onto the Autrosafe.

Type Designations

Heat Detector Type: BDH-500/EX, BD-501/EX

Optical Smoke Detectors Type: BHH-500/EX and BHH-500/S/EX

Multisensor Smoke Detectors Type: BHH-520/EX

Manual Call Point: BF-500V2/EX , BF-501/EX, BF-502/EX, BF-503/EX/0100, BF-503/EX/0200, BF-503/EX/0300, BF-503/EX/0400, BF-503/EX/0500, BF-506/EX.

Safety Data

Maximum input voltage	Ui: 15,75V
Maximum input current	Ii: 63,5mA
Maximum input power	Pi: 0,44W
Maximum internal capacitance	Ci: 21,6nF
Maximum internal inductance	Li: 0mH

Type Designation

Input unit : BN-500/EX

Safety Data

Terminals 1,2,3,4, loop connection

Maximum input voltage	Ui: 15,75V
Maximum input current	Ii: 63,5mA
Maximum input power	Pi: 0,44W
Maximum internal capacitance	Ci: 21,6nF
Maximum internal inductance	Li: 0mH

Terminals 5,6, monitoring connection

Maximum output voltage	Uo: 15,75V
Maximum output current	Io: 51mA
Maximum output power	Po: 0,36W
Maximum external capacitance	Co: 20nF
Maximum external inductance	L0/R0: 50μH/Ω

Degrees of protection (IP Code)

BF-506/EX: IP66 according to IEC 60529.

Ambient temperature:

-20°C to +70°C

Routine tests

None

[16] Report No.
(D0001378/01 and 304542)

Descriptive Documents

Name/Number	Rev.	Date	Title/Description	Sheets
116-BF-500V2/EX:				
116-9212-338.0002	3	2008-03-25	BNA-303/02 KRETSKORT GRV.	3
116-P-BF500V2EX/CGB	C	2016-04-29	Manual Callpoint With SelfVerify BF-500V2/EX	3
116-BZ-091	D	2016-02-11	Control drawing EX i Installation	1
116-BN-100	C	2001-10-05	BNA-303 Interface unit with SV function	1
116-BF-197	G	2016-03-07	Manual call point diagram	1
116-7212-338.107	0	1999-12-20	BNA-303 Side A	1
116-7212-338.007	0	1999-12-20	BNA-303 Side B	1
116-BN-087	D	2016-03-08	Sammenstilling og dimensjoner, Assembly and dimensions BNB-200, BNB-300	1
116-BF-226	A	2011-07-11	BF-500V2/EX Assembly / dimensions	1
116-E-2842/1	C	2014-04-11	BF-500V2/EX Label	1
116-BN-157	A	2011-07-04	BNA-303 Lakkeringsstegning	1
116-7212-338.9001	1	2014-04-03	SPESIFIKASJONSSKJEMA FOR BESTILLING AV MØNSTERKORT BNA-303	1
116-7212-338.0000		2010-02-19	Gerber files for BNA-303	
116-BF-501/EX:				
116-9212-338.0002	3	2008-03-25	BNA-303/02 KRETSKORT GRV.	3
116-P-BF501EX/CGB	F	2016-04-29	Manual Callpoint With SelfVerify BF-501/EX	3
116-BZ-091	D	2016-02-11	Control drawing EX i Installation	1
116-BN-100	C	2001-10-05	BNA-303 Interface unit with SV function	1
116-BF-200	C	2016-02-11	Manual call point diagram	1
116-7212-	0	1999-12-	BNA-303 Side A	1

338.107		20		
116-7212-338.007	0	1999-12-20	BNA-303 Side B	1
116-BN-087	D	2016-03-08	Sammenstilling og dimensjoner, Assembly and dimensions BNB-200, BNB-300	1
116-BF-201	D	2011-07-01	Manual Call Point BF-501/ex, Dimen sketch	1
116-E-2975	B	2014-04-11	Merkeskilt for BF-501 BF-501/EX	1
116-BN-157	A	2011-07-04	BNA-303 Lakkeringsstegning	1
116-7212-338.9001	1	2014-04-03	SPESIFIKASJONSSKJEMA FOR BESTILLING AV MØNSTERKORT BNA-303	1
116-7212-338.0000		2010-02-19	Gerber files for BNA-303	
116-BF-502/EX:				
116-9212-338.0002	3	2008-03-25	BNA-303/02 KRETSKORT GRV.	3
116-BZ-091	D	2016-02-11	Control drawing EX i Installation	1
116-BN-100	C	2001-10-05	BNA-303 Interface unit with SV function	1
116-BF-200	C	2016-02-11	Manual call point diagram	1
116-7212-338.107	0	1999-12-20	BNA-303 Side A	1
116-7212-338.007	0	1999-12-20	BNA-303 Side B	1
116-BN-087	D	2016-03-08	Sammenstilling og dimensjoner, Assembly and dimensions BNB-200, BNB-300	1
116-P-BF502EX/CGB	F	2016-04-29	Manual Callpoint With SelfVerify BF-502/EX	3
116-BF-224	C	2011-07-05	Manual Call Point BF-502/ex, Assembly drawing, Dimen sketch	1
116-E-2968	B	2014-04-11	BF-502/EX TYPESKILF, ARBEIDSTEGNING	1
116-BN-157	A	2011-07-04	BNA-303 Lakkeringsstegning	1
116-7212-338.9001	1	2014-04-03	SPESIFIKASJONSSKJEMA FOR BESTILLING AV MØNSTERKORT BNA-303	1
116-7212-338.0000		2010-02-19	Gerber files for BNA-303	
116-BF-503/EX/0100:				
116-P-	H	2016-04-	Manual Callpoint With SelfVerify BF-503/EX	3

BF503EX/CGB		29		
116-BF-213	B	2011-07-01	Manual Call Point BF-503/ex/0100, Dimen sketch	1
116-E-2969	B	2014-04-11	Merkeskilt for BF-503/EX/-100	1
116-9212-338.0002	3	2008-03-25	BNA-303/02 KRETSKORT GRV.	3
116-BZ-091	D	2016-02-11	Control drawing EX i Installation	1
116-BN-100	C	2001-10-05	BNA-303 Interface unit with SV function	1
116-BF-200	C	2016-02-11	Manual call point diagram	1
116-7212-338.107	0	1999-12-20	BNA-303 Side A	1
116-7212-338.007	0	1999-12-20	BNA-303 Side B	1
116-BN-087	D	2016-03-08	Sammenstilling og dimensjoner, Assembly and dimensions BNB-200, BNB-300	1
116-BN-157	A	2011-07-04	BNA-303 Lakkeringsstegning	1
116-7212-338.9001	1	2014-04-03	SPESIFIKASJONSSKJEMA FOR BESTILLING AV MØNSTERKORT BNA-303	1
116-7212-338.0000		2010-02-19	Gerber files for BNA-303	
116-BF-503/EX/0200:				
116-BF-214	B	2011-07-05	Manual Call Point BF-503/ex/0200, Dimen sketch	1
116-E-2970	B	2014-04-11	Merkeskilt for BF-503/EX/-200	1
116-P-BF503EX/CGB	H	2016-04-29	Manual Callpoint With SelfVerify BF-503/EX	3
116-9212-338.0002	3	2008-03-25	BNA-303/02 KRETSKORT GRV.	3
116-BZ-091	D	2016-02-11	Control drawing EX i Installation	1
116-BN-100	C	2001-10-05	BNA-303 Interface unit with SV function	1
116-BF-200	C	2016-02-11	Manual call point diagram	1
116-7212-338.107	0	1999-12-20	BNA-303 Side A	1
116-7212-338.007	0	1999-12-20	BNA-303 Side B	1
116-BN-087	D	2016-03-08	Sammenstilling og dimensjoner, Assembly and dimensions BNB-200, BNB-300	1

116-BN-157	A	2011-07-04	BNA-303 Lakkeringsstegning	1
116-7212-338.9001	1	2014-04-03	SPESIFIKASJONSSKJEMA FOR BESTILLING AV MØNSTERKORT BNA-303	1
116-7212-338.0000		2010-02-19	Gerber files for BNA-303	
116-BF-503/EX/0300:				
116-BF-215	B	2011-07-05	Manual Call Point BF-503/ex/0300, Dimen sketch	1
116-E-2971	B	2014-04-11	Merkeskilt for BF-503/EX/-300	1
116-P-BF503EX/CGB	H	2016-04-29	Manual Callpoint With SelfVerify BF-503/EX	3
116-9212-338.0002	3	2008-03-25	BNA-303/02 KRETSKORT GRV.	3
116-BZ-091	D	2016-02-11	Control drawing EX i Installation	1
116-BN-100	C	2001-10-05	BNA-303 Interface unit with SV function	1
116-BF-200	C	2016-02-11	Manual call point diagram	1
116-7212-338.107	0	1999-12-20	BNA-303 Side A	1
116-7212-338.007	0	1999-12-20	BNA-303 Side B	1
116-BN-087	D	2016-03-08	Sammenstilling og dimensjoner, Assembly and dimensions BNB-200, BNB-300	1
116-BN-157	A	2011-07-04	BNA-303 Lakkeringsstegning	1
116-7212-338.9001	1	2014-04-03	SPESIFIKASJONSSKJEMA FOR BESTILLING AV MØNSTERKORT BNA-303	1
116-7212-338.0000		2010-02-19	Gerber files for BNA-303	
116-BF-503/EX/0400:				
116-BF-216	B	2011-07-05	Manual Call Point BF-503/ex/0400 and BF-503/ex/0500, Dimen sketch	1
116-E-2972	B	2014-04-11	Merkeskilt for BF-503/EX/-400	1
116-P-BF503EX/CGB	H	2016-04-29	Manual Callpoint With SelfVerify BF-503/EX	3
116-9212-338.0002	3	2008-03-25	BNA-303/02 KRETSKORT GRV.	3
116-BZ-091	D	2016-02-	Control drawing EX i Installation	1

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116-BN-100	C	2001-10-05	BNA-303 Interface unit with SV function	1
116-BF-200	C	2016-02-11	Manual call point diagram	1
116-7212-338.107	0	1999-12-20	BNA-303 Side A	1
116-7212-338.007	0	1999-12-20	BNA-303 Side B	1
116-BN-087	D	2016-03-08	Sammenstilling og dimensjoner, Assembly and dimensions BNB-200, BNB-300	1
116-BN-157	A	2011-07-04	BNA-303 Lakkeringsstegning	1
116-7212-338.9001	1	2014-04-03	SPESIFIKASJONSSKJEMA FOR BESTILLING AV MØNSTERKORT BNA-303	1
116-7212-338.0000		2010-02-19	Gerber files for BNA-303	
116-BF-503/EX/0500:				
116-BF-216	B	2011-07-05	Manual Call Point BF-503/ex/0400 and BF-503/ex/0500, Dimen sketch	1
116-E-2973	B	2014-04-11	Merkeskilt for BF-503/EX/-500	1
116-P-BF503EX/CGB	H	2016-04-29	Manual Callpoint With SelfVerify BF-503/EX	3
116-9212-338.0002	3	2008-03-25	BNA-303/02 KRETSKORT GRV.	3
116-BZ-091	D	2016-02-11	Control drawing EX i Installation	1
116-BN-100	C	2001-10-05	BNA-303 Interface unit with SV function	1
116-BF-200	C	2016-02-11	Manual call point diagram	1
116-7212-338.107	0	1999-12-20	BNA-303 Side A	1
116-7212-338.007	0	1999-12-20	BNA-303 Side B	1
116-BN-087	D	2016-03-08	Sammenstilling og dimensjoner, Assembly and dimensions BNB-200, BNB-300	1
116-BN-157	A	2011-07-04	BNA-303 Lakkeringsstegning	1
116-7212-338.9001	1	2014-04-03	SPESIFIKASJONSSKJEMA FOR BESTILLING AV MØNSTERKORT BNA-303	1
116-7212-338.0000		2010-02-19	Gerber files for BNA-303	

116-BN-500/EX:				
116-9212-338.0001	3	2008-03-28	BNA-303/01 KRETSK. GRUNNV.	3
116-P-BN500/EX/CGB	G	2016-04-29	Input unit with SelfVerify - BN-500/EX	3
116-BN-088	B	2011-07-01	Connection and dimension sketch for input unit BN-300, BN-500/EX Tilkobling og målskisse for inngangsenhet BN-300, BN-500/EX	1
116-E-2761/1	E	2014-04-11	BN-500/EX, Silketrykktegning for front	1
116-BZ-091	D	2016-02-11	Control drawing EX i Installation	1
116-BN-100	C	2001-10-05	BNA-303 Interface unit with SV function	1
116-7212-338.107	0	1999-12-20	BNA-303 Side A	1
116-7212-338.007	0	1999-12-20	BNA-303 Side B	1
116-BN-087	D	2016-03-08	Sammenstilling og dimensjoner, Assembly and dimensions BNB-200, BNB-300	1
116-BN-157	A	2011-07-04	BNA-303 Lakkerings-tegning	1
116-7212-338.9001	1	2014-04-03	SPESIFIKASJONSSKJEMA FOR BESTILLING AV MØNSTERKORT BNA-303	1
116-7212-338.0000		2010-02-19	Gerber files for BNA-303	
116-BHH-500/EX:				
116-BZ-091	D	2016-02-11	Control drawing EX i Installation	1
116-9212-329.0001	13	2011-01-07	BHA-300/EX KRETSKORT GRV.	4
116-P-BH500EX/CGB	G	2016-04-29	Optical Smoke Detektor with SelfVerify -BH-500/ex	4
116-BH-105	D	2009-04-21	BHA-300/EX BHA-320/EX Optical/Heat Detector with SV function	1
7212-329.107	2	2006-05-08	BHA-300(320)ex Side A	1
7212-329.007	2	2006-05-08	BHA-300(320)ex Side B	1
116-BH-098	C	2007-09-06	Assembly Drawing Optical Detector Autosafe	1
116-E-2392/1	M	2014-03-	EX-labels Autosafe Detectors, Pos 1,2,3,4	1

		20		
116-E-3184	-	2016-03-03	BHH-500/EX Type label	1
116-BH-117	B	2011-07-11	Coating of BHA-300(320)/EX	1
116-7212-329.9008	8	2014-04-03	SPESIFIKASJONSSKJEMA FOR BESTILLING AV MØNSTERKORT BHA-300(320)ex	1
116-7212-329.0002		2010-01-14	Gerber files for BHA-300(320)ex	
116-BHH-500/S/EX:				
116-P-BH500/S/EX/CGB	C	2016-04-29	Optical Smoke Detektor with SelfVerify -BH-500/s/ex	4
116-BZ-091	D	2016-02-11	Control drawing EX i Installation	1
116-9212-329.0001	13	2011-01-07	BHA-300/EX KRETSKORT GRV.	4
116-BH-105	D	2009-04-21	BHA-300/EX BHA-320/EX Optical/Heat Detector with SV function	1
7212-329.107	2	2006-05-08	BHA-300(320)ex Side A	1
7212-329.007	2	2006-05-08	BHA-300(320)ex Side B	1
116-BH-098	C	2007-09-06	Assembly Drawing Optical Detector Autosafe	1
116-E-2392/2	M	2014-03-20	EX-labels Autosafe Detectors, Pos 1,2,3,4	1
116-E-3185	-	2016-03-03	BHH-500/S/EX Type label	1
116-BH-117	B	2011-07-11	Coating of BHA-300(320)/EX	1
116-7212-329.9008	8	2014-04-03	SPESIFIKASJONSSKJEMA FOR BESTILLING AV MØNSTERKORT BHA-300(320)ex	1
116-7212-329.0002		2010-01-14	Gerber files for BHA-300(320)ex	
116-BHH-520/EX:				
116-9212-329.0002	12	2011-01-07	BHA-320/EX KRETSKORT GRV.	4
116-P-BH520EX/CGB	J	2016-04-29	Multi Sensor with SelfVerify -BH-520/ex	4
116-BH-099	C	2010-02-16	Assembly Drawing Combi Detector Autosafe	1
116-E-2703	G	2014-03-20	Tekst Skilt Detektor BHH-220, -320,- 520 Arb. Tegn.	1

116-BZ-091	D	2016-02-11	Control drawing EX i Installation	1
116-BH-105	D	2009-04-21	BHA-300/EX BHA-320/EX Optical/Heat Detector with SV function	1
7212-329.107	2	2006-05-08	BHA-300(320)ex Side A	1
7212-329.007	2	2006-05-08	BHA-300(320)ex Side B	1
116-E-2392/1	M	2014-03-20	EX-labels Autosafe Detectors, Pos 1,2,3,4	1
116-BH-117	B	2011-07-11	Coating of BHA-300(320)/EX	1
116-7212-329.9008	8	2014-04-03	SPESIFIKASJONSSKJEMA FOR BESTILLING AV MØNSTERKORT BHA-300(320)ex	1
116-7212-329.0002		2010-01-14	Gerber files for BHA-300(320)ex	
116-BDH-500/EX:				
116-9212-328.0001	10	2009-12-23	BDA-300/EX KRETSKORT GRV.	3
116-P-BD500EX/CGB	I	2016-04-28	Heat Detector with SelfVerify -BD-500/ex	4
116-BZ-091	D	2016-02-11	Control drawing EX i Installation	1
116-BD-084	D	2009-04-21	BDA-300/EX Heat detector with SV function	1
7212-328.107	2	2005-08-22	BDA-300ex Side A	1
7212-328.007	2	2005-08-22	BDA-300ex Side B	1
116-BH-097	C	2010-02-16	Assembly Drawing Heat Detector Autosafe	1
116-E-2392/1	M	2014-03-20	EX-labels Autosafe Detectors, Pos 1	1
116-E-2704	G	2014-03-20	Tekst-Skilt for detektor BDH-200,-300,-500 Arb.tegning	1
116-BD-091	B	2011-07-11	Coating of BDA-300/EX	1
116-7212-328.9007	7	2014-04-03	SPESIFIKASJONSSKJEMA FOR BESTILLING AV MØNSTERKORT BDA-300ex	1
116-7212-328.0002		2010-01-14	Gerber files for BDA-300ex	

116-BD-501/EX:				
116-P-BD501EX/CGB	G	2016-04-28	Heat Detector with SelfVerify -BD-501/ex	4
116-BZ-091	D	2016-02-11	Control drawing EX i Installation	1
116-BD-083	A	2005-04-04	Assembly Drawing BD-501, BD-501/EX, BD-501/N	1
116-E-2573	E	2014-10-06	Merkeskilt for BD-501/EX	1
116-E-2705	E	2011-07-06	Tekst-Skilt for BDH-501,-501N,-501/EX, -200M Arb.tegning	1
116-9212-328.0001	10	2009-12-23	BDA-300/EX KRETSKORT GRV.	3
116-BZ-091	D	2016-02-12	Control drawing EX i Installation	1
116-BD-084	D	2009-04-21	BDA-300/EX Heat detector with SV function	1
7212-328.107	2	2005-08-22	BDA-300ex Side A	1
7212-328.007	2	2005-08-22	BDA-300ex Side B	1
116-7212-328.9007	7	2014-04-03	SPESIFIKASJONSSKJEMA FOR BESTILLING AV MØNSTERKORT BDA-300ex	1
116-7212-328.0002		2010-01-14	Gerber files for BDA-300ex	
116-BF-506/EX:				
116-BF-234	B	2016-04-08	BF-506/EX Dimension sketch/Assembly drawing	1
116-E-3175	B	2016-04-12	Merkeskilt for BF-506/EX	1
116-P-BF506EX/CGB		2016-04-29	Manual Callpoint	3
116-9212-338.0002	3	2008-03-25	BNA-303/02 KRETSKORT GRV.	3
116-BZ-091	D	2016-02-11	Control drawing EX i Installation	1
116-BN-100	C	2001-10-05	BNA-303 Interface unit with SV function	1
116-BF-200	C	2016-02-11	Manual call point diagram	1
116-7212-338.107	0	1999-12-20	BNA-303 Side A	1
116-7212-338.007	0	1999-12-20	BNA-303 Side B	1
116-BN-087	D	2016-03-08	Sammenstilling og dimensjoner, Assembly and dimensions BNB-200, BNB-300	1



116-BN-157	A	2011-07-04	BNA-303 Lakkeringsstegning	1
116-7212-338.9001	1	2014-04-03	SPESIFIKASJONSSKJEMA FOR BESTILLING AV MØNSTERKORT BNA-303	1
116-7212-338.0000		2010-02-19	Gerber files for BNA-303	

Certificate History and Associated Nemko Reports

Issue	Date	Report	Description
0	2003-08-28	10184	Prime Certificate released
1	2004-05-20	10189	Minor changes of marking drawings.
2	2005-07-04	47631	Minor changes in design. Safety data are updated.
3	2007-02-05	80699	Minor changes of board layout and components.
4	2008-09-15	113193	Confirm compliance with the equivalent standards: IEC 60079-0: 1998, IEC 60079-11: 1999 and IEC 60079-26: 2004.
5	2011-01-24	160421	Alternative enclosure to the manual call point.
6	2011-07-13	133996	Update to new standards and update to the descriptive documents.
7	2014-10-08	D0001378/00 and 260246	Minor changes of descriptive documents.
8	2016-06-06	D0001378/01 and 304542	Minor changes of descriptive documents and add a new manual call point.

[17] Specific Conditions of Use

The surface of the of isolating material exceeds the limit 4cm² as specified in EN 60079-0 and the probability of electrostatic charging need to be considered for use in category 1 (Zone 0).
The equipment shall be connected to a certified intrinsically safe output circuit with output data not exceeding the above stated input values.

[18] Essential Health and Safety Requirements

Essential Health and Safety Requirements (EHSRs) are covered by the standards listed at item 9