

[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 10

[4] Product: **Call Points, Heat, Smoke Detectors and Input Unit**

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

[6] Address: **Bromstadvegen 59
7047 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 **PRJN-315748-2021-PA-NOR**
confidential report no.

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

EN 60079-0:2018, 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:



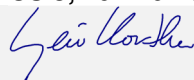
II 1G Ex ia IIC T5 Ga Tamb -20°C to +70°C



***II 1D Ex ia IIIC T₂₀₀ 115°C Da Tamb -20°C to +70°C**

*See "Description of Product below"

Oslo, 2022-02-01



Geir Hørthe
Certification Manager

[13] Schedule

[14] **EU-TYPE EXAMINATION CERTIFICATE No** **Nemko 03ATEX218X** **Issue 10**

[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.

Only BF-502/EX and BN-500/EX are certified for dust.

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/0300, BF-503/EX/0400, BF-503/EX/0500, BF-506/EX.

Intrinsic Safety Data

Maximum input voltage U_i : 15,75V

Maximum input current I_i : 63,5mA

Maximum input power P_i : 0,44W

Maximum internal capacitance C_i : 21,6nF

Maximum internal inductance L_i : 0mH

Type Designation

Input unit : BN-500/EX

Intrinsic Safety Data

Terminals 1,2,3,4, loop connection

Maximum input voltage U_i : 15,75V

Maximum input current I_i : 63,5mA

Maximum input power P_i : 0,44W

Maximum internal capacitance C_i : 21,6nF

Maximum internal inductance L_i : 0mH

Terminals 5,6, monitoring connection

Maximum output voltage U_o : 15,75V

Maximum output current I_o : 51mA

Maximum output power P_o : 0,36W

Maximum external capacitance C_o : 20nF

Maximum external inductance L_o/R_o : 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. PRJN-315748-2021-PA-NOR

Descriptive Documents

Drawing No	Rev. Level	Date	Title	No. of sheets
116-BF-500V2/EX:				
116-9212-338.0002	3	2008-03-25	BNA-303/02 KRETSKORT GRV.	3
*Doc-1003606	5	2022-01-28	Control drawing / user manual technical specification and instruction	3
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
*Doc-1001565	4	2021-11-29	BF-500V2/EX TYPE LABEL	1
Doc-1001423	3	2019-01-03	Coating Drawing BN-303	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
*Doc-1003606	5	2022-01-28	Control drawing / user manual technical specification and instruction	3
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-BF-201	D	2011-07-01	Manual Call Point BF-501/ex, Dimen sketch	1
*Doc-1001140	5	2022-01-28	BF-501/EX TYPE LABEL	1
Doc-1001423	3	2019-01-03	Coating Drawing BN-303	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
*Doc-1003606	5	2022-01-28	Control drawing / user manual technical specification and instruction	3
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-BF-224	C	2011-07-05	Manual Call Point BF-502/ex, Assembly drawing, Dimen sketch	1
*Doc-1001819	4	2021-11-29	BF-502/EX TYPE LABEL	1
Doc-1001423	3	2019-01-03	Coating Drawing BN-303	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-BF-213	B	2011-07-01	Manual Call Point BF-503/ex/0100, Dimen sketch	1
*Doc-1001818	4	2021-11-29	BF-503/EX/0100 TYPE LABEL	1
116-9212-338.0002	3	2008-03-25	BNA-303/02 KRETSKORT GRV.	3
*Doc-1003606	5	2022-01-28	Control drawing / user manual technical specification and instruction	3
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
Doc-1001423	3	2019-01-03	Coating Drawing BN-303	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
*Doc-1001144	4	2021-11-29	BF-503/EX/0300 TYPE LABEL	1
116-9212-338.0002	3	2008-03-25	BNA-303/02 KRETSKORT GRV.	3
*Doc-1003606	5	2022-01-28	Control drawing / user manual technical specification and instruction	3
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
Doc-1001423	3	2019-01-03	Coating Drawing BN-303	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
*Doc-1001141	4	2021-11-29	BF-503/EX/0400 TYPE LABEL	1
116-9212-338.0002	3	2008-03-25	BNA-303/02 KRETSKORT GRV.	3
*Doc-1003606	5	2022-01-28	Control drawing / user manual technical specification and instruction	3
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
Doc-1001423	3	2019-01-03	Coating Drawing BN-303	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
*Doc-1001142	4	2021-11-29	Merkeskilt for BF-503/EX/-500	1
116-9212-338.0002	3	2008-03-25	BNA-303/02 KRETSKORT GRV.	3
*Doc-1003606	5	2022-01-28	Control drawing / user manual technical specification and instruction	3
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
Doc-1001423	3	2019-01-03	Coating Drawing BN-303	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-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
*Doc-1001124	4	2022-01-28	BN-500/EX TYPE LABEL	1
*Doc-1003606	5	2022-01-28	Control drawing / user manual technical specification and instruction	3
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
Doc-1001423	3	2019-01-03	Coating Drawing BN-303	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:				
*Doc-1003606	5	2022-01-28	Control drawing / user manual technical specification and instruction	3

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
*Doc-1000041/1	4	2022-01-28	EX-labels laser engraved AutoSafe detectors	1
*Doc-1003730	4	2021-11-29	BHH-500/EX Type label	1
Doc-1001735	3	2019-01-03	Coating drawing 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:				
Doc-1003606	5	2022-01-28	Control drawing / user manual technical specification and instruction	3
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
*Doc-1000041/2	4	2022-01-28	Ex-labels laser engraved AutoSafe detectors	1
*Doc-1003731	3	2021-11-29	BHH-500/S/EX Type label	1
Doc-1001735	3	2019-01-03	Coating drawing 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-BH-099	C	2010-02-16	Assembly Drawing Combi Detector Autosafe	1
*Doc-1002312/2	5	2021-11-29	BHH-520/N, BHH-520/EX TYPE LABEL	1

*Doc-1003606	5	2022-01-28	Control drawing / user manual technical specification and instruction	3
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
*Doc-1000041/1	4	2022-01-28	EX-labels laser engraved AutoSafe detectors	1
Doc-1001735	3	2019-01-03	Coating drawing 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
*Doc-1003606	5	2022-01-28	Control drawing / user manual technical specification and instruction	3
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
*Doc-1000041/1	4	2022-01-28	EX-labels laser engraved AutoSafe detectors	1
*Doc-1002311/2	3	2021-11-29	BDH-500/N, BDH-500/EX TYPE LABEL	1
Doc-1001392	3	2019-01-03	Coating Drawing 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:				
Doc-1003606	5	2022-01-28	Control drawing / user manual technical specification and instruction	3
116-BD-083	A	2005-04-04	Assembly Drawing BD-501, BD-501/EX, BD-501/N	1
*Doc-1001791	4	2021-12-14	BD-501/EX TYPE LABEL	1
*Doc-1002310/2	3	2021-11-29	BD-501/N, BD-501/EX TEXT LABEL	1
116-9212-328.0001	10	2009-12-23	BDA-300/EX KRETSKORT GRV.	3
Doc-1001392	3	2019-01-03	Coating Drawing BDA-300/EX	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
*Doc-1003722	3	2021-11-29	BF-506/EX TYPE LABEL	1
116-9212-338.0002	3	2008-03-25	BNA-303/02 KRETSKORT GRV.	3
*Doc-1003606	5	2022-01-28	Control drawing / user manual technical specification and instruction	3
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
Doc-1001423	3	2019-01-03	Coating Drawing BN-303	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.
9	2019-01-07	D0001378/02	Update manufacturer address, add dust code to BF-502/EX and BN-500/
10	2022-02-01	PRJN-315748-2021-PA-NOR	Update to latest edition of EN 60079-0 and correction of address. BF-503/EX/0200 is removed from certification. Maximum surface temperature for dust certification is re-tested and stated to 115°C, when equipment is covered by a layer of 200mm dust.

[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, 20, 21 and 22).
- The equipment shall be connected to a certified intrinsically safe output circuit with output data not exceeding the above stated input values.
- BF-506/EX: Contains aluminum. Beat/impact may cause sparks.

[18] Essential Health and Safety Requirements

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