

[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 **11**

[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 Group AS, notified body number 0470, in accordance with Article 17 of the 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 the confidential report no.

SC315748

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

EN IEC 60079-0:2018 and 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 technical design and construction of the specified product in accordance to the Directive 2014/34/EU. 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 -30°C / -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"

2023-11-30



Bernt Jonny Orderud
Certifier name

[13] Schedule

[14] **EU-TYPE EXAMINATION CERTIFICATE No** **Nemko 03ATEX218X** **Issue 11**

[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 : 50 μ H/ Ω

Degrees of protection (IP Code):

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

BF-500V2/EX: IP65 according to IEC 60529.

Ambient temperature:

-20°C to +70°C

BF-500V2/EX: -30°C \leq T_a \leq +70°C.

Routine tests:

None

[16] Report No. SC315748

Descriptive Documents:

Number	Title	Rev	Date
116-BF-500V2/EX:			
Doc-1002364	*Manuelle meldere Skjema, Manual callpoints diagram	4	16.10.2023
116-9212-338.0002	BNA-303/02 KRETSKORT GRV.	3	2008-03-25
Doc-1003606	*Control drawing / user manual technical specification and instruction	7	2023-08-28
116-BN-100	BNA-303 Interface unit with SV function	C	2001-10-05
116-BF-197	Manual call point diagram	G	2016-03-07
116-7212-338.107	BNA-303 Side A	0	1999-12-20
116-7212-338.007	BNA-303 Side B	0	1999-12-20
116-BN-087	Sammenstilling og dimensjoner, Assembly and dimensions BNB-200, BNB-300	D	2016-03-08
*Doc-1000153	BF-500V2/EX Assembly / dimensions	2	2023-08-28
*Doc-1001565	BF-500V2/EX TYPE LABEL	6	2023-08-25
Doc-1001423	Coating Drawing BN-303	3	2019-01-03
116-7212-338.9001	SPESIFIKASJONSSKJEMA FOR BESTILLING AV MØNSTERKORT BNA-303	1	2014-04-03
116-7212-338.0000	Gerber files for BNA-303		2010-02-19
116-BF-501/EX:			
116-9212-338.0002	BNA-303/02 KRETSKORT GRV.	3	2008-03-25
Doc-1003606	*Control drawing / user manual technical specification and instruction	7	2023-08-28
116-BN-100	BNA-303 Interface unit with SV function	C	2001-10-05
116-BF-200	Manual call point diagram	C	2016-02-11
116-7212-338.107	BNA-303 Side A	0	1999-12-20
116-7212-338.007	BNA-303 Side B	0	1999-12-20
116-BN-087	Sammenstilling og dimensjoner, Assembly and dimensions BNB-200, BNB-300	D	2016-03-08
116-BF-201	Manual Call Point BF-501/ex, Dimen sketch	D	2011-07-01
Doc-1001140	*BF-501/EX TYPE LABEL	7	2022-11-09
Doc-1001423	Coating Drawing BN-303	3	2019-01-03
116-7212-338.9001	SPESIFIKASJONSSKJEMA FOR BESTILLING AV MØNSTERKORT BNA-303	1	2014-04-03
116-7212-338.0000	Gerber files for BNA-303		2010-02-19
116-BF-502/EX:			
116-9212-338.0002	BNA-303/02 KRETSKORT GRV.	3	2008-03-25
Doc-1003606	*Control drawing / user manual technical specification and instruction	7	2023-08-28
116-BN-100	BNA-303 Interface unit with SV function	C	2001-10-05
116-BF-200	Manual call point diagram	C	2016-02-11
116-7212-338.107	BNA-303 Side A	0	1999-12-20
116-7212-338.007	BNA-303 Side B	0	1999-12-20
116-BN-087	Sammenstilling og dimensjoner, Assembly and dimensions BNB-200, BNB-300	D	2016-03-08
116-BF-224	Manual Call Point BF-502/ex, Assembly drawing, Dimen sketch	C	2011-07-05
Doc-1001819	*BF-502/EX TYPE LABEL	6	2022-11-09
Doc-1001423	Coating Drawing BN-303	3	2019-01-03
116-7212-338.9001	SPESIFIKASJONSSKJEMA FOR BESTILLING AV MØNSTERKORT BNA-303	1	2014-04-03

116-7212-338.0000	Gerber files for BNA-303		2010-02-19
116-BF-503/EX/0100:			
116-BF-213	Manual Call Point BF-503/ex/0100, Dimen sketch	B	2011-07-01
Doc-1001818	*BF-503/EX/0100 TYPE LABEL	5	2022-06-20
116-9212-338.0002	BNA-303/02 KRETSKORT GRV.	3	2008-03-25
Doc-1003606	*Control drawing / user manual technical specification and instruction	7	2023-08-28
116-BN-100	BNA-303 Interface unit with SV function	C	2001-10-05
116-BF-200	Manual call point diagram	C	2016-02-11
116-7212-338.107	BNA-303 Side A	0	1999-12-20
116-7212-338.007	BNA-303 Side B	0	1999-12-20
116-BN-087	Sammenstilling og dimensjoner, Assembly and dimensions BNB-200, BNB-300	D	2016-03-08
Doc-1001423	Coating Drawing BN-303	3	2019-01-03
116-7212-338.9001	SPESIFIKASJONSSKJEMA FOR BESTILLING AV MØNSTERKORT BNA-303	1	2014-04-03
116-7212-338.0000	Gerber files for BNA-303		2010-02-19
116-BF-503/EX/0300:			
116-BF-215	Manual Call Point BF-503/ex/0300, Dimen sketch	B	2011-07-05
Doc-1001144	*BF-503/EX/0300 TYPE LABEL	5	2022-06-17
116-9212-338.0002	BNA-303/02 KRETSKORT GRV.	3	2008-03-25
Doc-1003606	*Control drawing / user manual technical specification and instruction	7	2023-08-28
116-BN-100	BNA-303 Interface unit with SV function	C	2001-10-05
116-BF-200	Manual call point diagram	C	2016-02-11
116-7212-338.107	BNA-303 Side A	0	1999-12-20
116-7212-338.007	BNA-303 Side B	0	1999-12-20
116-BN-087	Sammenstilling og dimensjoner, Assembly and dimensions BNB-200, BNB-300	D	2016-03-08
Doc-1001423	Coating Drawing BN-303	3	2019-01-03
116-7212-338.9001	SPESIFIKASJONSSKJEMA FOR BESTILLING AV MØNSTERKORT BNA-303	1	2014-04-03
116-7212-338.0000	Gerber files for BNA-303		2010-02-19
116-BF-503/EX/0400:			
116-BF-216	Manual Call Point BF-503/ex/0400 and BF-503/ex/0500, Dimen sketch	B	2011-07-05
Doc-1001141	*BF-503/EX/0400 TYPE LABEL	5	2022-06-17
116-9212-338.0002	BNA-303/02 KRETSKORT GRV.	3	2008-03-25
Doc-1003606	*Control drawing / user manual technical specification and instruction	7	2023-08-28
116-BN-100	BNA-303 Interface unit with SV function	C	2001-10-05
116-BF-200	Manual call point diagram	C	2016-02-11
116-7212-338.107	BNA-303 Side A	0	1999-12-20
116-7212-338.007	BNA-303 Side B	0	1999-12-20
116-BN-087	Sammenstilling og dimensjoner, Assembly and dimensions BNB-200, BNB-300	D	2016-03-08
Doc-1001423	Coating Drawing BN-303	3	2019-01-03
116-7212-338.9001	SPESIFIKASJONSSKJEMA FOR BESTILLING AV MØNSTERKORT BNA-303	1	2014-04-03
116-7212-338.0000	Gerber files for BNA-303		2010-02-19
116-BF-503/EX/0500:			
116-BF-216	Manual Call Point BF-503/ex/0400 and BF-	B	2011-07-05

	503/ex/0500, Dimen sketch		
Doc-1001142	*Merkeskilt for BF-503/EX/-500	5	2022-06-17
116-9212-338.0002	BNA-303/02 KRETSKORT GRV.	3	2008-03-25
Doc-1003606	*Control drawing / user manual technical specification and instruction	7	2023-08-28
116-BN-100	BNA-303 Interface unit with SV function	C	2001-10-05
116-BF-200	Manual call point diagram	C	2016-02-11
116-7212-338.107	BNA-303 Side A	0	1999-12-20
116-7212-338.007	BNA-303 Side B	0	1999-12-20
116-BN-087	Sammenstilling og dimensjoner, Assembly and dimensions BNB-200, BNB-300	D	2016-03-08
Doc-1001423	Coating Drawing BN-303	3	2019-01-03
116-7212-338.9001	SPESIFIKASJONSSKJEMA FOR BESTILLING AV MØNSTERKORT BNA-303	1	2014-04-03
116-7212-338.0000	Gerber files for BNA-303		2010-02-19
116-BN-500/EX:			
116-9212-338.0001	BNA-303/01 KRETSK. GRUNNV.	3	2008-03-28
116-BN-088	Connection and dimension sketch for input unit BN-300, BN-500/EX Tilkobling og målskisse for inngangsenhet BN-300, BN-500/EX	B	2011-07-01
Doc-1001124	*BN-500/EX TYPE LABEL	5	2022-06-17
Doc-1003606	*Control drawing / user manual technical specification and instruction	7	2023-08-28
116-BN-100	BNA-303 Interface unit with SV function	C	2001-10-05
116-7212-338.107	BNA-303 Side A	0	1999-12-20
116-7212-338.007	BNA-303 Side B	0	1999-12-20
116-BN-087	Sammenstilling og dimensjoner, Assembly and dimensions BNB-200, BNB-300	D	2016-03-08
Doc-1001423	Coating Drawing BN-303	3	2019-01-03
116-7212-338.9001	SPESIFIKASJONSSKJEMA FOR BESTILLING AV MØNSTERKORT BNA-303	1	2014-04-03
116-7212-338.0000	Gerber files for BNA-303		2010-02-19
116-BHH-500/EX:			
Doc-1003606	*Control drawing / user manual technical specification and instruction	7	2023-08-28
116-9212-329.0001	BHA-300/EX KRETSKORT GRV.	13	2011-01-07
116-BH-105	BHA-300/EX BHA-320/EX Optical/Heat Detector with SV function	D	2009-04-21
7212-329.107	BHA-300(320)ex Side A	2	2006-05-08
7212-329.007	BHA-300(320)ex Side B	2	2006-05-08
116-BH-098	Assembly Drawing Optical Detector Autosafe	C	2007-09-06
Doc-1000041/1	*EX-labels laser engraved AutoSafe detectors	5	2022-06-17
Doc-1003730	BHH-500/EX Type label	4	2021-11-29
Doc-1001735	Coating drawing BHA-300(320)/EX	3	2019-01-03
116-7212-329.9008	SPESIFIKASJONSSKJEMA FOR BESTILLING AV MØNSTERKORT BHA-300(320)ex	8	2014-04-03
116-7212-329.0002	Gerber files for BHA-300(320)ex		2010-01-14
116-BHH-500/S/EX:			
Doc-1003606	*Control drawing / user manual technical specification and instruction	7	2023-08-28
116-9212-329.0001	BHA-300/EX KRETSKORT GRV.	13	2011-01-07
116-BH-105	BHA-300/EX BHA-320/EX Optical/Heat	D	2009-04-21

	Detector with SV function		
7212-329.107	BHA-300(320)ex Side A	2	2006-05-08
7212-329.007	BHA-300(320)ex Side B	2	2006-05-08
116-BH-098	Assembly Drawing Optical Detector Autosafe	C	2007-09-06
Doc-1000041/2	*Ex-labels laser engraved AutoSafe detectors	5	2022-06-17
Doc-1003731	*BHH-500/S/EX Type label	5	2022-09-27
Doc-1001735	Coating drawing BHA-300(320)/EX	3	2019-01-03
116-7212-329.9008	SPESIFIKASJONSSKJEMA FOR BESTILLING AV MØNSTERKORT BHA-300(320)ex	8	2014-04-03
116-7212-329.0002	Gerber files for BHA-300(320)ex		2010-01-14
116-BHH-520/EX:			
116-9212-329.0002	BHA-320/EX KRETSKORT GRV.	12	2011-01-07
116-BH-099	Assembly Drawing Combi Detector Autosafe	C	2010-02-16
Doc-1002312/2	BHH-520/N, BHH-520/EX TYPE LABEL	5	2021-11-29
Doc-1003606	*Control drawing / user manual technical specification and instruction	7	2023-08-28
116-BH-105	BHA-300/EX BHA-320/EX Optical/Heat Detector with SV function	D	2009-04-21
7212-329.107	BHA-300(320)ex Side A	2	2006-05-08
7212-329.007	BHA-300(320)ex Side B	2	2006-05-08
Doc-1000041/1	*EX-labels laser engraved AutoSafe detectors	5	2022-06-17
Doc-1001735	Coating drawing BHA-300(320)/EX	3	2019-01-03
116-7212-329.9008	SPESIFIKASJONSSKJEMA FOR BESTILLING AV MØNSTERKORT BHA-300(320)ex	8	2014-04-03
116-7212-329.0002	Gerber files for BHA-300(320)ex		2010-01-14
116-BDH-500/EX:			
116-9212-328.0001	BDA-300/EX KRETSKORT GRV.	10	2009-12-23
Doc-1003606	*Control drawing / user manual technical specification and instruction	7	2023-08-28
116-BD-084	BDA-300/EX Heat detector with SV function	D	2009-04-21
7212-328.107	BDA-300ex Side A	2	2005-08-22
7212-328.007	BDA-300ex Side B	2	2005-08-22
116-BH-097	Assembly Drawing Heat Detector Autosafe	C	2010-02-16
Doc-1000041/1	*EX-labels laser engraved AutoSafe detectors	5	2022-06-17
Doc-1002311/2	*BDH-500/N, BDH-500/EX TYPE LABEL	5	2022-09-27
Doc-1001392	Coating Drawing BDA-300/EX	3	2019-01-03
116-7212-328.9007	SPESIFIKASJONSSKJEMA FOR BESTILLING AV MØNSTERKORT BDA-300ex	7	2014-04-03
116-7212-328.0002	Gerber files for BDA-300ex		2010-01-14
116-BD-501/EX:			
Doc-1003606	*Control drawing / user manual technical specification and instruction	7	2023-08-28
116-BD-083	Assembly Drawing BD-501, BD-501/EX, BD-501/N	A	2005-04-04
Doc-1001791	*BD-501/EX TYPE LABEL	5	2022-06-20
Doc-1002310/2	BD-501/N, BD-501/EX TEXT LABEL	3	2021-11-29

116-9212-328.0001	BDA-300/EX KRETSKORT GRV.	10	2009-12-23
Doc-1001392	Coating Drawing BDA-300/EX	3	2019-01-03
116-BD-084	BDA-300/EX Heat detector with SV function	D	2009-04-21
7212-328.107	BDA-300ex Side A	2	2005-08-22
7212-328.007	BDA-300ex Side B	2	2005-08-22
116-7212-328.9007	SPESIFIKASJONSSKJEMA FOR BESTILLING AV MØNSTERKORT BDA-300ex	7	2014-04-03
116-7212-328.0002	Gerber files for BDA-300ex		2010-01-14
116-BF-506/EX:			
116-BF-234	BF-506/EX Dimension sketch/Assembly drawing	B	2016-04-08
Doc-1003722	BF-506/EX TYPE LABEL	3	2021-11-29
116-9212-338.0002	BNA-303/02 KRETSKORT GRV.	3	2008-03-25
Doc-1003606	*Control drawing / user manual technical specification and instruction	7	2023-08-28
116-BN-100	BNA-303 Interface unit with SV function	C	2001-10-05
116-BF-200	Manual call point diagram	C	2016-02-11
116-7212-338.107	BNA-303 Side A	0	1999-12-20
116-7212-338.007	BNA-303 Side B	0	1999-12-20
116-BN-087	Sammenstilling og dimensjoner, Assembly and dimensions BNB-200, BNB-300	D	2016-03-08
Doc-1001423	Coating Drawing BN-303	3	2019-01-03
116-7212-338.9001	SPESIFIKASJONSSKJEMA FOR BESTILLING AV MØNSTERKORT BNA-303	1	2014-04-03
116-7212-338.0000	Gerber files for BNA-303		2010-02-19

Certificate History and Associated Reports:

Issue	Date	Report No.	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-	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-

		NOR	tested and stated to 115°C, when equipment is covered by a layer of 200mm dust.
11	2023-11-06	SC315748	Update the documents and new enclosure with IP code. Add new breaking element glass and plastic. Extend the ambient temperature to BF-500V2/EX: $-30^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$.

[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

[19] Remarks and additional Information:

None