



Issue 7



[1] EU-TYPE EXAMINATION CERTIFICATE

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

Nemko 03ATEX 230

[4]	Product:	Interface and Shunt Protection			
[5]	Manufacturer:	Autronica Fire and Security AS			
[6]	Address:	Bromstadvegen 59 N-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 report no.	confidential D0003849			
[9]	Compliance with the Essential Health and Safety Requirements has been assured by compliance with:				
	EN 60079-0:2012/A11:2013, 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:

[3] EU-Type Examination Certificate Number:

 $\langle \epsilon_{x} \rangle$

II (1) G

[Ex ia Ga] IIC

III (1) D

[Ex ia Da] IIIC

Oslo, 2019-09-19

Geir Hørthe

Certification Manager





[13] Schedule

[14] EU-TYPE EXAMINATION CERTIFICATE No Nemko 03ATEX 230 Issue 7

[15] Description of Product

The BZ-500/01 is an interface and shunt protection unit interconnected with a certified safety barrier and certified intrinsically safe detectors. The electronic circuit board of the unit contains a non-intrinsically safe section and a section with an intrinsically safe shunt device. The two sections are interconnected with a certified galvanic or diode safety barrier.

Type Designations

BZ-500/01: Shunt protection unit and safety barrier

BZ-500: Complete enclosure with terminals, safety barrier and shunt unit

Electrical Data

Non Intrinsically safe part Terminals 7, 8, 9, 10, 11, 12 Um=250V

Intrinsically safe part.

Input terminals: Barr.Ex number 1 and 4

Maximum input voltage Ui=28V Maximum input current Ii=93mA Maximum input power Pi=653mW

Output terminals: AL_Com/EX, number 3 and 6

Maximum output voltage Uo=15,75V
Maximum output current Io=63,5mA
Maximum output power Po=0,44W
Maximum external capacitance Co=0,48µF
Maximum external inductance Lo=1,26mH

Degrees of protection (IP Code)

IP 20

Ambient temperature:

-20°C to +60°C

Routine tests

N/A

[16] Report No. D0003849

Descriptive Documents

Number	Title	Rev	Date
116-9212-326.0001*	BZA-500 Ex Barrier circuit board	6.4	2019-06-05
Doc-1003753*	Control Drawing/User Manual	1	2019-06-05
116-BZ-081	TILPASNINGSENHET FOR BZ-500 INTERFACE UNIT FOR BZ-500	E	2014-11-13
Doc-1003708*	BZA-500 Schematic Modification	2	2019-07-19
7212-326.107	BZA-500	0	1999-09-21
7212-326.007 BZA-500		0	1999-09-21
Doc-1003694* BZA-500 Modification Drawing		1	2018-06-18
Doc-1003777*	BZ-500/01 Type label	1	2019-06-05
Doc-1001754*	BZ-500 Type label	3	2019-06-05
7212-326.000 Gerber files for BZA-500		0	-
Doc-1001568* Coating drawing BZA-500		2	2019-04-09





Certificate History and Associated Nemko Reports

Issue	Date	Report	Description
0	2003-06-18	10196	Prime Certificate
1	2004-05-20	10188	Minor changes in the design.
2	2005-07-04	47631	Minor changes in the design.
3	2008-09-15	113191	To confirm compliance with the equivalent standards: IEC 60079-0: 1998, IEC 60079-11: 1999 and IEC 60079-26: 2004.
4	2011-05-11	134000	To confirm compliance with the equivalent standards: EN 60079-0: 2009 and EN 60079-11: 2007
5	2014-09-05	D0001379/ 260246	Minor changes of the descriptive documents.
6	2015-05-22	D0001379	Minor component changes. Updated to EN 60079-0: 2012 and EN 60079-11:2012.
7	2019-09-19	D0003849	Add PLM system to the WZA-500. Add dust code and new address

[17] Specific Conditions of Use

None

[18] Essential Health and Safety Requirements

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