

[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 03 ATEX 222 Issue 4

[4] Product: PowerLoop Module

[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
confidential report no.

PRJN-178338-2019-PA-NOR

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

EN IEC 60079-0: 2018, EN 60079-7:2015/A1: 2018, EN 60079-18:2015/A1: 2017

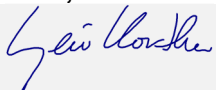
[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

[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 2 G Ex eb mb IIC T4 Gb -20°C ≤ Ta ≤ 70°C

Oslo, 2021-03-09



Geir Hørthe
Certification Manager

[13] Schedule

[14] **EU-TYPE EXAMINATION CERTIFICATE No** **Nemko 03 ATEX 222** **Issue 4**

[15] **Description of Product**

This certificate covers a PowerLoop interface designed for third party detectors connected to the Autosafe Interactive Fire and Gas Detection System.
Enclosure is provided with threaded holes M25 for entry devices. Certified cable Ex eb glands must be used. Unused holes must be closed with Ex eb certified blanking elements.

Type Designations

BN-342/EX

Electrical Data

Un = 30V, In = 83 mA

Degrees of protection (IP Code)

IP 66 according to EN 60529

Ambient temperature:

-20°C to +70°C

Routine tests

Dielectric strength test according to clause 7.1 of EN 60079-7: 2015 (500V r.m.s. for 60 seconds). Each encapsulated unit shall be inspected visually according to EN 60079-18:2015, and dielectric strength test according to clause 8.2.4 for at least 1 s.

[16] **Report No. PRJN-178338-2019-PA-NOR**

Descriptive Documents

Number	Title	Rev	Date
BS-1188	Schematic drawing	C	2004.11.09
BS-1208	Schematic drawing	A	2013.04.21
7212-366.107	Circuit assembly drawing	3	2005.01.17
7212-366.007	Circuit assembly drawing	3	2005.01.17
7212-373.007	Circuit assembly drawing	0	2002.11.15
9212-366.0003	Component list	5.3	2021.02.18
9212-373.0001	Component list	1.1	2018.02.14
Doc-1002100	BN-342/EX TYPE LABEL	3	2020.08.10
E-2642	BNB-342/EX Connection label		2003.05.26
UY-102	BN-342/ Monteringsplate for mantelklemmer	B	2005.04.20
UG-775	Støpeform for kretskort 4-20mA input power-loop	E	2013.04.23
Doc-1001999	BN-342/EX Assembly drawing, sammenstilling	2	2020.04.14
UG-797	BNB-342/EX Connection and dimension drawing		2003.05.28
UG-795	BNB-342/EX Innstøpning av kretskort BNA-342	A	2013.04.17
Doc-1001182	BN-342/Ex Dimensional drawing	2	2020.01.13
BN-173	Primer- og lakk-tegning BNA-342/BNF-342		2013.04.12
AFS-05616	BNB-342EX, Prosedyre for innstøping	3	2013.04.08



Certificate History and Associated Nemko Reports

Issue	Date	Report	Description
-	2004-01-26	10185	Prime Certificate released
1	2008-09-15	113194	Order to confirm compliance with the equivalent standards: IEC 60079-0:1998, IEC 60079-7:2001 and IEC 60079-18:1992.
2	2013-06-11	236180	Primer is applied to pcb to give better adhesion, vaccum is used when the pcb is encapsulated to avoid voids in the casting compound and there are a thicker layer of casting compound between circuit board and free area.
3	2020-09-08	D0003058	Update to confirm compliance with standards EN 60079-0:2018, EN 60079-7:2015, EN 60079-18:2015. Address change and minor document updates. Component MAX471 (U10) is replaced by INA169 connected to adapter WBS-471 for pin compatibility. Added new certified enclosure box replacement.
4	2021-03-09	PRJN-178338-2019-PA-NOR	Minor changes due to two obsolete components.

[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