



(1) **Supplementary EU - Type Examination Certificate No.8**

(2) **Equipment or Protective Systems Intended for Use  
in Potentially Explosive Atmospheres  
(Directive 2014/34/EU)**

(3) EU - Type Examination Certificate number:

**FTZÚ 09 ATEX 0142X**

(4) Product: **Cap Lamp Polaris**

(5) Manufacturer: **NL Technologies**

(6) Address: **533 McNicoll Ave, North York, Ontario, Canada M2H 2C9**

(7) This supplementary certificate extends EC - Type Examination Certificate No. FTZÚ 09 ATEX 0142X to apply to products designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

(8) The Physical-Technical Testing Institute, Notified Body number 1026, in accordance with Articles 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014, certifies that this product, as modified by this supplementary certificate, 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.

(9) In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20.04.2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20.04.2016.

(10) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN IEC 60079-0:2018, EN 60079-11:2012, EN 50303:2000, EN 60079-35-1:2011, EN 60079-28:2015**

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

(11) The marking of the product shall include the following:



**II 1G Ex ia op is IIB T2 Ga  
I M1 Ex ia op is I Ma**

(12) This certificate is valid till: **28.02.2027**

Responsible person:

Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 28.02.2022

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**Physical-Technical Testing Institute  
Ostrava - Radvanice**

(13)

**Schedule**

(14) **Supplementary EU - Type Examination Certificate No. 8  
to FTZÚ 09 ATEX 0142X**

(15) Description of the variation to the Product:

The subject of this supplementary certificate is:

- Change of manufacturer address.
- Modification of certified apparatus.
- Evaluation according to the newest standards.
- Change of Ex marking.
- Extension of certificate validity.

Manufacturer address changed from 33 Laird Drive, Toronto, Ontario, Canada M4G 3S9 to new: 533 McNicoll Ave, North York, Ontario, Canada M2H 2C9.

Modifications of product are – added alternative elements, added an alternative material of the cap lamp rear enclosure and added an antistatic coating on transparent front cover for Group II.

The product has been evaluated according to the newest standards mentioned in clause (10). The validity of the certificate has been extended for the next five years. The documentation has been updated and is listed in clause (19).

There was added the next type of protection “op is” to the Ex marking and carried out the required tests in scope of the standard EN 60079-28:2015.

Technical parameters (recapitulation):

Ambient temperature range for Group I:  $0^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$

Ambient temperature range for Group II:  $0^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$

Degree of protection provided by enclosure: IP67

Charging supply voltage:  $U_m = 12\text{V AC/DC}$

(16) Report Number: 09/0142/8

(17) Specific Conditions of Use: recapitulation only

1. The product shall not be opened in hazardous area.
2. The product shall be charged in non-hazardous area and only by manufacturer's chargers.
3. The durability of the coating material applied on the product enclosure shall be evaluated with respect to the environmental conditions.

Responsible person:

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Head of Certification Body



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(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (10) of this supplementary certificate.

(19) Drawings and Documents:

Number:	Revision:	Sheets:	Date:	Description:
04NL01903	D	3	14.11.2012	All-in-One Power Control Circuit Schematic
*01NL01903	D1	1	15.02.2022	All-in-One Power Control Circuit Bill of Materials
10NL01903L	D	1	13.11.2012	All-in-One Power Control Circuit, Top and Bottom Lay.
04NL01870	B	1	07.01.2011	Li Ion Protection Circuit, Circuit Schematic
01NL01870	B1	1	16.05.2014	Li Ion Protection Circuit, Bill of Materials
10NL01870L	B	1	07.01.2011	Li Ion Protection Circuit, Top and Bottom Layers
73EB01721	A	1	27.08.2009	O-Ring 3.5-1.00
10NL02086	0	1	05.11.2009	All-in-One Power Control Circuit, Fuse Encapsulation
03NL02098	B	1	28.10.2013	All-in-One Li-Ion Battery Cell Encapsulation
03NL01931	B	1	30.06.2010	Lamp Assembly
*03NL01932	D	1	05.01.2022	Lamp Assembly, Parts List
*78NL01982	E	1	25.02.2022	Certification Markings
*NL9701	H	32	02.02.2022	Northern Light Polaris Manual and Maintenance Proc.

Note: An \* is included before the Number of documents that are new or revised.

Responsible person:

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Head of Certification Body



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