




DET NORSKE VERITAS

EC-TYPE EXAMINATION CERTIFICATE

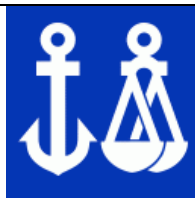
- [2] **EQUIPMENT OR PROTECTIVE SYSTEM INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES DIRECTIVE 94/9/EC**
- [3] EC-Type Examination Certificate Number: **DNV 12 ATEX 14659X**
- [4] Equipment or Protective System: **760nm Single mode VCSEL with Peltier Element and Thermistor in TO510**
- [5] Applicant – Manufacturer or Authorized representative: **Neo Monitors AS**
- [6] Address: **P.O. Box 384
1471 Lørenskog
Norway**
- [7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] DNV, notified body number 0575 in accordance with Article 9 of Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.
- The examination and test results are recorded in confidential reports listed in section 14.
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-28: 2007
- [10] If the sign “X” is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
- [11] This EC-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protected system. If applicable, further requirements of this Directive apply to the manufacturer and supply of this equipment or protective system.
- [12] The marking of the equipment or protective system shall include the following:

 **II (1) G [Ex op is T6 Ga] IIC**

Oslo, 2012-04-19
for Det Norske Veritas AS

for Marianne Spæren
Certification Manager





DNV



[13]

Schedule

[14] **EC-TYPE EXAMINATION CERTIFICATE No.:** DNV 12 ATEX 14659X

Certificate History

Revision	Description	Report no.	Issue date
-	Original certificate	2012-3163	2012-04-19

[15] **Description of Equipment or Protective System**

The laser diodes consist of a VCSEL, a Peltier Element and a Thermistor, all enclosed in a TO510 package. The diodes have only been tested for safe levels of optical radiation.

Type Identification

APC11010108XX

Electrical Data

Typical operating current: 4.0 mA

Typical operating voltage: 2.4 V

Degrees of protection (IP Code)

NA

[16] **Project No.:** PRJC-363995-2012-PRC-NOR

[17] **Special Conditions for Safe Use**

If placed in hazardous areas, the diodes must be protected by a relevant Ex protection method.

[18] **Essential Health and Safety Requirements**

See part 9 of this certificate

END OF CERTIFICATE