




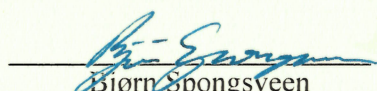
# DET NORSKE VERITAS

## 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 11 ATEX 94355X** Rev. 1
- [4] Equipment or Protective System: **Signal lamps**
- [5] Applicant – Manufacturer or Authorized representative: **QLIGHT CO., LTD.**
- [6] Address: **178-1 WOOGYE-RI, SANGDONG-MYUN, KIMHAE-SI, KYUNGSANGNAM-DO, 621-812 KOREA**
- [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 60079-0: 2006 and EN 60079-1:2007**
- [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 2 G Ex d IIC T6 -40°C ≤ T<sub>amb</sub> ≤ 60 °C**

Høvik, 2013-12-13  
for Det Norske Veritas AS

  
**Bjørn Spongsveen**  
Certification Manager



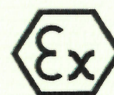
Notice: This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.

The digitally signed and electronically distributed document is the original and valid certificate. Ref.: [www.dnv.com/digitalsignatures](http://www.dnv.com/digitalsignatures)

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 300.000. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.







[13]

## Schedule

[14] **EC-TYPE EXAMINATION CERTIFICATE No.:** DNV 11 ATEX 94355X

Rev 1

### Certificate History

Revision	Description	Report no.	Issue date
-	Original certificate	2011-3054	2011-06-09
1	Scope extension of gas group to IIC	2011-3054	2013-12-13

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

The flameproof warning light with buzzer type SNES\*\* and flameproof warning light type SNE\*\* housed in aluminium enclosures in type of protection flameproof enclosure "d" are used to provide acoustic and/or visual signals.

A breathing device of multiple screen element is mounted in the wall of the 'Ex d' of the types SNES\*\*. Glass dome is protected by guard.

### Type Identification

Flameproof warning light with buzzer, type SNES\*\* and flameproof warning light, type SNE\*\*:

Type	Description	Max power
SNES	Bulb revolving	26W
SNESL	LED flashing and steady	12W
SNESLR	LED revolving	12W
SNES	Xenon lamp strobe	19W
SNE	Bulb revolving	21W
SNEL	LED flashing and steady	5W
SNELR	LED revolving	5W
SNE-S	Xenon lamp strobe	14W

### Electrical Data

U = 12 VDC or 24 VDC or 120 VAC or 230 VAC

### Degrees of protection (IP Code)

IP66

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EC-TYPE EXAMINATION CERTIFICATE No.: DNV 11 ATEX 94355X

Rev. 1

[16] Project No.: PRJC-222897-2010-PRC-KOR

**Descriptive Documents**

Number	Title	Rev	Date
EX-SNES-001	SNES EX-WARNING LIGHT WITH PHONE	4	2013.10.10
EX-SNES-002	SNES EX- EXPLOSION GLASS	1	2012.10.10
EX-SNES-003	SNES EX- BODY COVER	2	2012.10.10
EX-SNES-004	SNES EX-BODY	2	2012.10.10
EX-SNES-005	SNES EX- TERMINAL COVER	2	2012.10.10
EX-SNES-006	SNES EX-SNES NAME PLATE	3	2013.10.10
EX-SNES-007	SNES EX- PROTECTION NET	1	2011.03.23
EX-SNES-008	SNES EX- HORN COVER	2	2012.10.10
EX-SNES-009	SNES EX-MOLDING-COMPOUND	1	2011.03.23
EX-SNES-017	SNES EX-GLASS RING	1	2012.10.10
EX-SNES-037	SNES EX- WARNING- LABEL	1	2011.03.23
EX-SNES-041	SNES EX-FLAME ARRESTER SET	0	2012.10.10
EX-SNES-042	SNES EX-FLAME ARRESTER MESH	0	2012.10.10
EX-SNE-001	SNE WARNING LIGHT	3	2013.10.10
EX-SNE-002	SNE EX-BODY	1	2012.10.10
EX-SNE-003	SNE EX-SNE NAME PLATE	3	2013.10.10

**Routine tests**

A routine overpressure test of 1553 kPa according to EN 60079-1 clause 16 shall be carried out on each enclosure.

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

- Repairs of the flameproof joints must be made in compliance with the structural specifications provided by the manufacturer. Repairs must not be made on the basis of values specified in tables 1 and 2 of EN/IEC 60079-1.

-The yield stress of the fastener elements of each part of the flame proof casing must be at least equal to 737 N/mm<sup>2</sup>.

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

See part 9 of this certificate

END OF CERTIFICATE

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 300.000. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.

