

**KR HELLAS LTD.**  
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**Certificate No:**  
**KRH 18 ATEX 1022X**  
Date of original issue : 2018-10-19  
  
Date of issue : 2019-12-27  
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## 1. **EU-TYPE EXAMINATION CERTIFICATE**

2. Equipment and Protective systems intended for use in potentially explosive atmospheres:

**Directive 2014/34/EU**

3. EU-Type Examination Certificate Number: **KRH 18 ATEX 1022X**

4. Equipment or Protective system: **Flameproof Fire Warning Light type QNE / Flameproof Fire Warning Light and Siren Buzzer Combination type QNES**

5. Manufacturer: **Qlight Co., Ltd.**

6. Address: **185-25, Mukbang-Ro, Sangdong-Myeon, Gimhae-Si, Gyeongsangnam-Do, 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. The KRH 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 2014/34/EU of 26 February 2014.

The examination and test results are recorded in the confidential reports listed in section 16.

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

**EN 60079-0:2012+A11:2013 EN 60079-1:2014**

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 EU-Type Examination Certificate relates only to the design and construction of the specified equipment or protective system in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacturing process and supply of this equipment or protective systems. These are not covered by this certificate.

12. The marking of the equipment or protective system shall include the following:

**Ex II 2 G Ex db IIC T6/T5 Gb**

This certificate is issued at Athens on 2019-12-27, under the authority of the Hellenic Republic of Greece by KR Hellas Ltd., Notified Body No. 2198.



*Dr. Nikos Katiforis*

**Quality Manager of KR Hellas Ltd**

*Any person not a party to the contract pursuant which this document is delivered may not assert a claim against KRH for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgment, fault or negligence committed by personal of KRH in establishment or issuance of this document, and in connection with any activities for which it may provide. In this provision KRH shall mean the KR Hellas Ltd. as well as all its subsidiaries, directors, officers, employees and any other acting on behalf of KR Hellas Ltd.*



13.

## SCHEDULE

14. **EU-Type Examination Certificate KRH 18 ATEX 1022X**

15. **Description of equipment or protective system**

**The Flameproof Fire Warning Light type QNE and Flameproof Fire Warning Light and Siren Buzzer Combination type QNES are designed for;**

- 1) The Flameproof Fire Warning Light type QNE / Flameproof Fire Warning Light and Siren Buzzer Combination type QNES are designed to meet the requirement of flameproof enclosure (Ex “db”) and installed in the hazardous area zone 1 & 2 classified in accordance with EN publications and designed for use with gas group IIC, ambient temperature range -40 °C to +45 °C, +50 °C or +60 °C.
- 2) These lights are composed of body and globe. Spigot joints and cemented joints are applied to the light part. Two entries are located on the body. Thread type can be 1/2 NPT, 3/4 NPT, M20 or M25.
- 3) This certificate does not include assessment to EN 60079-28.
- 4) Model description

a – b – c – d			
a	b	c	d
<u>Model</u>	<u>Sound pattern (only QNES)</u>	<u>Voltage</u>	<u>Color</u>
QNE : Flameproof Fire	WS : warning sounds	12/24 : (12~24) Vdc	R : red
Warning Light	WP : special warning sounds	110/230 : (110~230)	A : amber
QNES : Flameproof Fire	WM : melodies	Vac	G : green
Warning Light and Siren	WA : alarms		B : blue
Buzzer Combination	WV : customizable sounds		

5) Rated voltage

- For QNE : (12~24) Vdc, 7 W or (110~230) Vac, 20 W
- For QNES : (12~24) Vdc, 23 W or (110~230) Vac, 43 W

6) Degree of protection (IP code) : IP66 in accordance with IEC 60529

7) Any suitable certified cable entry devices shall maintain the IP degree of equipment.

8) All unused openings shall be closed with suitably certified blanking elements.

9) The safety instruction provided by manufacturer shall be strictly respected.





**16. Descriptive documents**

Report No.: KRH-ATEX-0069-2019

**17. Specific Conditions of Use**

1) Ambient temperature

- for QNE : -40 °C to 50 °C (T6), -40 °C to 60 °C (T5)
- for QNES : -40 °C to 45 °C (T6), -40 °C to 60 °C (T5)

2) Do not disassemble, assemble, alter or repair the product arbitrarily. The information for dimensions of flameproof joints must be provided by manufacturer prior to any maintenance or repairs.

3) Use fasteners with yield stress  $\geq 899$  MPa, where the 899 MPa is determined by the applicable testing.

4) Potential electrostatic charging hazard - See instruction

**18. Essential Health and Safety Requirements**

Refer to covered by standards listed at 9.

**19. Routine Verifications and Tests**

Overpressure test in accordance with clause 16.1 of EN 60079-1 shall be carried out for flameproof enclosure.

**20. Drawings and Documents**

Number	Issue	Date	Description
EX-QNES001	2	2019-11-08	Flame-Proof Fire Warning light and Siren Buzzer Combination
EX-QNES002	2	2019-11-08	QNES_EX-Body
EX-QNE003	2	2019-11-08	QNE_EX-Cover
EX-QNE004	2	2017-03-13	QNE_EX-Tempered glass
EX-SESA045	0	2012-10-10	SESA_EX-Flame arrester set
EX-SESA046	1	2013-10-10	SESA_EX-Flame arrester mesh
EX-QNE006	0	2017-03-28	QNE_Protection cage
EX-QNE007	0	2017-12-28	QNE_EX-Molding compound
EX-QNES003	1	2019-12-24	QNES_EX-Name plate
EX-SNES037	1	2019-01-15	SNES_EX-Warning label
EX-QNE001	2	2019-11-08	QNE_Flame-Proof Fire Warning light
EX-QNE002	2	2019-11-08	QNE_EX-Body
EX-QNE005	1	2019-12-24	QNE_EX-Name plate
QNE/QNES	1.1	2019-11-08	User's manual



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21. **Details of Certificate changes**

Issue No.	Issue Date	Description
0	2018-10-19	Initial issue
1	2019-01-25	1) Stainless steel and Brass are newly applied for enclosure. 2) Rating is changed.
2	2019-12-27	1) Stainless steel (SUS316L) is newly applied for enclosure and Brass is deleted for enclosure. 2) Equipment name is changed.

*End of Certificate*

