



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx KSCP 21.0012X**

Page 1 of 4

Certificate history:

Status: **Current**

Issue No: 2

[Issue 1 \(2022-05-27\)](#)

[Issue 0 \(2021-05-07\)](#)

Date of Issue: 2023-07-20

Applicant: **QLight Co., Ltd.**
185-25, Mukbang-Ro
Sangdong-Myeon
Gimhae-Si
Gyeongsangnam-Do
Korea, Republic of

Equipment: **Flame-Proof LED Light QLEX-SLM-***, QLEX-NEC-250**

Optional accessory:

Type of Protection: **Flameproof enclosure "db"**

Marking: Ex db IIC T6 Gb

Ta: -40°C ≤ Tamb ≤ + 60°C

Approved for issue on behalf of the IECEx
Certification Body:

Sang He Kim

Position:

President of the Board

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

KSC POLAND Sp. z o.o.
Chorzowska 150 Street
Katowice 40-101
Poland





IECEX Certificate of Conformity

Certificate No.: **IECEX KSCP 21.0012X**

Page 2 of 4

Date of issue: 2023-07-20

Issue No: 2

Manufacturer: **QLight Co., Ltd.**
185-25, Mukbang-Ro
Sangdong-Myeon
Gimhae-Si
Gyeongsangnam-Do
Korea, Republic of

Manufacturing
locations: **QLight Co., Ltd.**
185-25, Mukbang-Ro
Sangdong-Myeon
Gimhae-Si
Gyeongsangnam-Do
Korea, Republic of

**QLIGHT ELECTRONICS (QIDONG)
CO., LTD**
No. 33 Haiyan Road, Qidong High-
Tech Industrial Development Zone
Qidong City, Nantong City, Jiangsu
Province
P.R. 226200
China

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

PL/KSCP/ExTR21.0012/00

PL/KSCP/ExTR21.0012/01

Quality Assessment Reports:

DE/EPS/QAR14.0012/09

DE/EPS/QAR16.0004/07



IECEx Certificate of Conformity

Certificate No.: **IECEx KSCP 21.0012X**

Page 3 of 4

Date of issue: 2023-07-20

Issue No: 2

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Flame-Proof LED Light QLEX-SLM-***, QLEX-NEC-250 are a tube-shaped flame-proof lighting lamps. Lamp housing consists of two AL6061 aluminum covers which are connected to both sides of a translucent tube part made of polycarbonate. Inside the lamp housing, there are LED module and control module mounted on cooling rod. The threaded cover which on one side of the lamp consist of M12 x P1.5 or M20 x P1.5 or NPT 1/2 cable entry located on the middle of it and earthing bolt on side. The internal ground is connected to the ring terminal inside the connection cover. For further information refer to certificate addendum.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- Do not open, maintain or service in area where an explosive atmosphere may be present,
- After de-energizing lamp, delay 5 minutes before opening enclosure,
- The equipment does not satisfy the requirements of IEC 60079-0 CL 7.4 Electrostatic charges on external non-metallic materials – See instructions for guidance to minimize the risk of electrostatic discharge,
- The device input should be made through the "Ex d", IEC 60079-1 certified cable gland. Service temperature at cable entry point and/or cable branching point may reach 74°C.



IECEx Certificate of Conformity

Certificate No.: **IECEx KSCP 21.0012X**

Page 4 of 4

Date of issue: 2023-07-20

Issue No: 2

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Add alternative model, QLEX-NEC-250 which compared with the already certified model, QLEX-SLM-***, it has been changed as below;

- Cable entry size (from M12 x P1.5 to M20 x P1.5 or NPT 1/2)
- Connection method (from permanent connection by soldering to connection by terminal block)
- Internal / external earthing bolt size (from M4 to M3)

Due to cable entry size on the End cover was increased to M20 or NPT 1/2, external earthing bolt size was decreased to M3.

For internal earthing, there was added M3 threaded hole on the Connection cover.

There was added terminal block inside the Connection cover which connected to the End cover.

Annex:

[IECEx_KSCP_21.00012X_02_Addendum.pdf](#)



Addendum to IECEx Certificate

Reference Number.....:	IECEx KSCP 21.0012X
Issue.....:	Issue 2

Details of change

Add alternative model, QLEX-NEC-250 which compared with the already certified model, QLEX-SLM-***, it has been changed as below;

- Cable entry size (from M12 x P1.5 to M20 x P1.5 or NPT 1/2)
- Connection method (from permanent connection by soldering to connection by terminal block)
- Internal / external earthing bolt size (from M4 to M3)

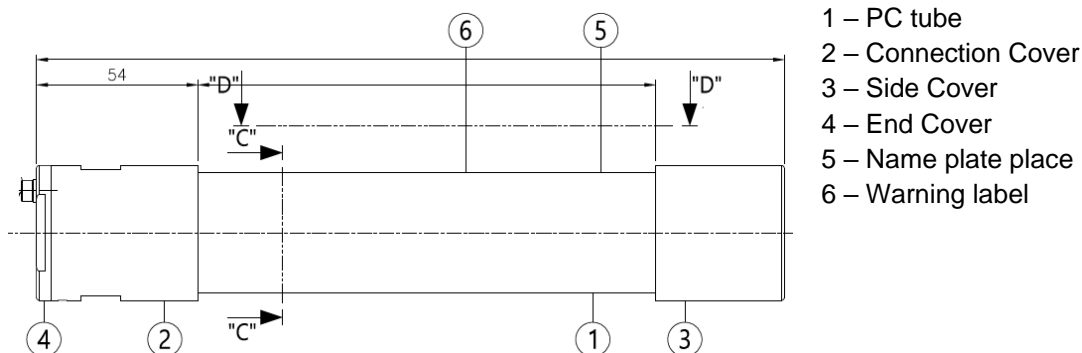
Due to cable entry size on the End cover was increased to M20 or NPT 1/2, external earthing bolt size was decreased to M3.

For internal earthing, there was added M3 threaded hole on the Connection cover.

There was added terminal block inside the Connection cover which connected to the End cover.

Description

Flame-Proof LED Light QLEX-SLM-***, QLEX-NEC-250 are a tube-shaped flame-proof lighting lamps. Lamp housing consists of two AL6061 aluminum covers which are connected to both sides of a translucent tube part made of polycarbonate. Inside the lamp housing, there are LED module and control module mounted on cooling rod. The threaded cover which on one side of the lamp consist of M12 x P1.5 or M20 x P1.5 or NPT 1/2 cable entry located on the middle of it and earthing bolt on side. The internal ground is connected to the ring terminal inside the connection cover. For further information refer to certificate addendum. Equipment construction is shown below:



Product will be marked as follows:

Manufacturer's name	QLight Co., Ltd.
Address	185-25, Mukbang-ro, Sangdong-myeon, Gimhae-si, Gyeongsannam-do, Korea Republic of
Type identification	QLEX-SLM-***, QLEX-NEC-250
Serial No and date of manufacturer	SERIAL NO. YEAR.
Certificate number	IECEx KSCP 21.0012X
Code	Ex db IIC T6 Gb
Ambient	QLEX-SLM-250(AC/DC); QLEX-NEC-250(DC): -40°C≤Tamb≤ + 60°C

Reference No. General	IECEx KSCP 21.0012X	Issue 2
	KSC POLAND Sp. z o.o.	Page 1 / 2

	QLEX-SLM-650(DC): $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +60^{\circ}\text{C}$ QLEX-SLM-650(AC): $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +55^{\circ}\text{C}$
Cable entry	M12xP1.5 or M20 x P1.5 or NPT 1/2
Rating	IP 66/67 QLEX-SLM-250: 24 VDC, 0.37 A, 8.6 W 220 VAC : MAX. 0.04 A ,Max. 9.0 W QLEX-SLM-650: 24 VDC : MAX. 0.83 A, Max. 20 W 220 VAC, 50/60 Hz, 0.105 A, Max. 23 W QLEX-NEC-250: 24 VDC, 8.6 W
Warnings	<ul style="list-style-type: none"> – Do not open, maintain or service in area where an explosive atmosphere may be present – Tighten all screws and cable glands properly – After de-energizing , delay 5 minutes before opening – Do not open when energized – Potential electrostatic charging hazard – see instructions

Conditions of manufacture:

- Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or component do not affect the compliance of the certified product is the subject of this certificate
- Each unit enclosure shall be subjected to a routine overpressure test in accordance with IEC 60079-1, clause 16.

The test pressures of equipment enclosure are:

- QLEX-SLM-250: 44 bar;
- QLEX-SLM-650: 47 bar ;
- QLEX-NEC-250: 44 bar.

Test shall be applied for at least 10 seconds, there shall be no permanent deformation or damage to the enclosure or leakage through the enclosure wall other than joints.

Reference No.: ^{General}	IECEX KSCP 21.0012X	Issue 2
	KSC POLAND Sp. z o.o.	Page 2 / 2