



# 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](http://www.iecex.com)

Certificate No.: **IECEX KSCP 23.0034X** Page 1 of 3 [Certificate history:](#)  
Status: **Current** Issue No: 0  
Date of Issue: 2023-07-20  
Applicant: **QLight Co., Ltd.**  
185-25, Mukbang-ro  
Sangdong-Myeon  
Gimhae-Si  
Gyeongsangnam-Do  
**Korea, Republic of**  
Equipment: **Signal Tower Lights ST\*45ML-NEC**  
Optional accessory:  
Type of Protection: **increased safety "e"**  
Marking: Ex ec IIC T6 Gc

Approved for issue on behalf of the IECEx  
Certification Body:

**Sang He Kim**

Position:

**President of the Board**

Signature:  
(for printed version)

Digitally signed by  
Sang He Kim; KSCP  
Date: 2023.07.20  
15:06:40 KST

Date:  
(for printed version)

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Katowice 40-101  
Poland





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Date of issue: 2023-07-20

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Manufacturer: **QLight Co., Ltd.**  
185-25, Mukbang-ro  
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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**

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 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
Edition:5.1

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 Report:

[PL/KSCP/ExTR23.0034/00](#)

Quality Assessment Report:

[PL/KSCP/QAR23.0015/00](#)



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Certificate No.: **IECEX KSCP 23.0034X**

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Date of issue: 2023-07-20

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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The equipment Signal Tower Lights model ST\*45ML-NEC is a signal tower light for use in type of protection Increased safety 'Ex ec' for hazardous gas atmospheres EPL Gc. The protection lens that is the outermost enclosure of the equipment is made of polycarbonate material, and in addition, inside is consists of body and globe which are made from polycarbonate housing. The cover, under body, out cover and end cover are made from aluminium. The electronics are mounted on PCBs which are located inside the body and globe housing. The electrical connections are made using an M20 X 1.5 certified cable gland entry which is fixed and installed at the one end of the equipment. One up to three signalling modules in different colours such as R-Red, A-Amber, G-Green can be installed inside the housing.

## **SPECIFIC CONDITIONS OF USE: YES as shown below:**

- The equipment enclosure shall not be opened when an explosive atmosphere is present and shall be used in an area of at least Pollution degree 2 as defined in IEC 60664-1.
- The equipment shall be supplied by an appropriately rated transient protective device that is set to a level not exceeding 140% of the peak rated voltage.
- The equipment includes external non-metallic parts. the user shall therefore ensure that the equipment is not installed in a location where it may be subjected to external conditions which might cause a build-up of electrostatic charges on non-conducting surfaces. Additionally, cleaning of the equipment shall be done with a damp cloth.
- External earthing connection shall be established by end-user via prepared M4 bolt and cable with a diameter greater than 4mm<sup>2</sup>. External earthing connection shall be corrosion resist.
- The equipment shall be installed so as to be protected from mechanical impact.

## **Annex:**

[IECEX\\_KSCP\\_23.00034X\\_Addendum.pdf](#)



## Addendum to IECEx Certificate

Reference Number.....:	<b>IECEX KSCP 23.0034X</b>
Issue.....:	Issue 0

### Description

The equipment Signal Tower Lights model ST\*45ML-NEC is a signal tower light for use in type of protection Increased safety 'Ex ec' for hazardous gas atmospheres EPL Gc. The protection lens that is the outermost enclosure of the equipment is made of polycarbonate material, and in addition, inside is consists of body and globe which are made from polycarbonate housing. The cover, under body, out cover and end cover are made from aluminium. The electronics are mounted on PCBs which are located inside the body and globe housing. The electrical connections are made using an M20 X 1.5 certified cable gland entry which is fixed and installed at the one end of the equipment. One up to three signalling modules in different colors such as R-Red, A-Amber, G-Green can be installed inside the housing.

### Model rule

Product: Signal tower Lights

Model: ST\*45ML-NEC

\* None: Without Buzzer, Signal Tower Lights, Model name ST45ML-NEC

\* B: With buzzer, Signal Tower Light with Build-In Audible Signal, Model name STB45ML-NEC

### Electrical parameters

Input voltage: 24VDC

Rated current: 0.036A(ST45ML-NEC)

0.077A(STB45ML-NEC)

Product will be marked as follows:

Manufacturer's name	QLIGHT CO., LTD
Address	185-25, Mukbang-ro, Sangdong-myeon, Gimhae-si, Gyeongsangnam-do, 185-25, Republic of Korea
Product	Signal Tower Lights
Type identification	ST*45ML-NEC
Serial No and date of manufacturer	yyyy/mm/dd
Certificate number	IECEX KSCP 23.0034X
Code	Ex ec IIC T6 Gc
Temperature Range:	-20 °C to +40 °C
Rating	24 VDC, Max. 0.077A, 1.85W
Warnings	– POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS

### Conditions of manufacture:

- i. Dielectric strength test must be conducted according to clause 7.1 of IEC 60079-7 with 500 Vrms for 60 s. Upon completion of the test, no breakdown shall occur

Reference No <sup>General</sup> ..	IECEX KSCP 23.0034X	Issue 0
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