



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 LCIE 20.0018X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2020-06-05

Applicant: **SHENZHEN CARY TECHNOLOGY CO., LTD.**
Building 1
No.29 Industrial West Zone, Makan Road
Xili, Nanshan
Shenzhen
China

Equipment: **LED Explosion protected Linear Light type KLE1011 -*.***

Optional accessory:

Type of Protection: **Ex eb, Ex mb, Ex tb**

Marking: Ex eb mb IIC T5...T6 Gb
Ex tb IIIC T80°C Db
See complete marking in the attachment.

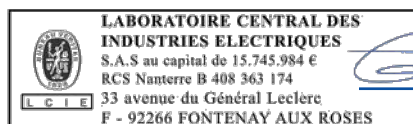
Approved for issue on behalf of the IECEx
Certification Body:

Julien GAUTHIER

Position:

Certification Officer

Signature:
(for printed version)



Date:

2020-06-05

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:

Laboratoire Central des Industries Electriques (LCIE)
33 Avenue du General Leclerc
FR-92260 Fontenay-aux-Roses
France





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Page 2 of 3

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Manufacturer: **SHENZHEN CARY TECHNOLOGY CO., LTD.**
Building 1
No.29 Industrial West Zone, Makan Road
Xili, Nanshan
Shenzhen
China

Additional
manufacturing
locations:

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 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

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:

[FR/LCIE/ExTR20.0036/00](#)

Quality Assessment Report:

[FR/LCIE/QAR20.0001/00](#)



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Certificate No.: **IECEx LCIE 20.0018X**

Page 3 of 3

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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The enclosure of KLE1011 series LED Explosion protected Linear Light with type of protection "eb" and "tb", which is consisted of the PC light diffuser, the housing and two end covers. The light diffuser and the housing are pressed by two end covers.

The LED PCB with type of protection "mb", the LED driver with type of protection "mb" and the LED emergency driver (optional) with type of protection "mb" are installed inside the enclosure.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The ambient temperature ranges:
 - 40°C to +40°C (the temperature class is T6)
 - 40°C to +50°C (the temperature class is T5)
- When assembly, operation and maintenance, the operator should follow the requirements of IEC 60079-14 standard, beside of the instruction manual.
- Repair and overhaul must comply with the standard IEC 60079-19.
- The distance between LED light source and the light diffuser should be greater than 18mm.
- The product cannot be used in pneumatic transmission of particle or process of repeated contact separation, refer to the user manual.

Annex:

[Annex 01 to IECEx LCIE 20.0018 X issue 00.pdf](#)



Annex 01 to Certificate IECEx LCIE 20.0018 X issue 00



FULL EQUIPMENT DESCRIPTION

The enclosure of KLE1011 series LED Explosion protected Linear Light with type of protection “eb” and “tb”, which is consisted of the PC light diffuser, the housing and two end covers. The light diffuser and the housing are pressed by two end covers.

The LED PCB with type of protection “mb”, the LED driver with type of protection “mb” and the LED emergency driver (optional) with type of protection “mb” are installed inside the enclosure.

MARKING

SHENZHEN CARY TECHNOLOGY CO., LTD.

Address: ...

Type: KLE1011-*-*

Serial number : ...

Year of construction : ...

Ex eb mb IIC T5...T6 Gb

Ex tb IIIC T80°C Db

IECEx LCIE 20.0018X

IP66

$-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +40^{\circ}\text{C}$ (for T6 or T80°C)

$-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +50^{\circ}\text{C}$ (for T5 or T80°C)

WARNINGS:

- DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT
- DO NOT OPEN WHEN ENERGIZED

RANGE DETAILS

KLE1011	-	*	-	*
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LED Driver type
D : Dimming LED driver
E : Emergency LED driver
None : General LED driver

Rated power (W)
18, 24, 30, 36, 40, 50, 60, 72, 80

RATINGS

Rated voltage: 100-277V

Frequency: 50-60Hz

Rated power: 18W, 24W, 30W, 36W, 40W, 50W, 60W, 72W, 80W

FULL CONDITIONS OF CERTIFICATION

- The ambient temperature ranges:
 - 40°C to +40°C (the temperature class is T6)
 - 40°C to +50°C (the temperature class is T5)
- When assembly, operation and maintenance, the operator should follow the requirements of IEC 60079-14 standard, beside of the instruction manual.
- Repair and overhaul must comply with the standard IEC 60079-19.
- The distance between LED light source and the light diffuser should be greater than 18mm.
- The product cannot be used in pneumatic transmission of particle or process of repeated contact separation, refer to the user manual.

ROUTINE TESTS

According to clause 7.1 of standard IEC 60079-7 each above apparatus shall be submitted before delivery to a dielectric strength test under 1554 Volts (carried out in accordance with clause 6.1).

According to clause 9.1 of standard IEC 60079-18 each apparatus shall be submitted to Visual inspection.

APPARATUS OVERVIEW

