



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 TPS 19.0047X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2020-02-13

Applicant: **Shenzhen Clear Lighting Co., Ltd.**
901#, 9F, Unit B, Block B(South Area), Zhuoyue Meilin Center Plaza, Meilin Road, Meilin Street, Futian District.
Shenzhen 518049
China

Equipment: **LED Flexible Strip Light. Model: ma-F2010, mb-F2010, mc-F1617 series.**

Optional accessory:

Type of Protection: **encapsulation "m"**

Marking: Ex ma I Mb
Ex mb I Mb
Ex mb IIC T6 Gb
Ex mb IIIC T80°C Db
Ex mc IIC T6 Gc
Ex mc IIIC T80°C Dc

Approved for issue on behalf of the IECEx
Certification Body:

Ing. Kristof De Gersem, MSc.

Position:

Technical Certifier

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:

TÜV SÜD Product Service GmbH
Ridlerstr. 65
D-80339 Munich
Germany



Product Service



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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

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:

[DE/TPS/ExTR19.0026/00](#)

Quality Assessment Report:

[DE/TPS/QAR19.0011/00](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The equipment "ma-F2010, mb-F2010, mc-F1617 series" are three different lighting effects explosion-proof flexible strip luminaires with encapsulation enclosure which are made by same rubber mixings of silicone rubber. The whole electrical parts are protected by Ex 'm' type. The limitation of power is 0.5W to 240W. The rated input voltage is 48V DC/AC. The model ma-F2010 as a device which is intended to be used in mine atmosphere, EPL is Mb; The model mb-F2010 series is intended to be used in explosive mine, gas and dust atmosphere, EPL are Mb, Gb and Db; The model mc-F1617 series is intended to be used in EPL Gc and Dc explosive gas and dust atmosphere. The driver and adaptor are not integrated in this product and are not covered in this certification.

Ignition risk by optical radiation as per IEC 60079-0 clause 6.6.4 has been evaluated which fulfills the requirement of IEC 60079-28.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- 1.The ambient temperature range is from -30°C to +40°C.
- 2.The equipment is in equipment protection level "Mb", although the equipment was evaluated as Ex "ma", it does not comply with EPL "Ma".