



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 CML 16.0135X	Page 1 of 4	<u>Certificate history:</u> Issue 0 (2016-11-25)
Status:	Current	Issue No: 1	
Date of Issue:	2019-12-04		
Applicant:	CZ Electric Co., Ltd. No. 1 Qixing Road, Qixing Town, Nanhu District, Jiaxing, Zhejiang, 314002, China		
Equipment:	CZ0264 Explosion-Proof (Emergency) LED Light Fitting / Exit Sign Lighting Fittings		
Optional accessory:			
Type of Protection:	Flameproof "db", Increased Safety "eb", Intrinsic Safety "ib", Encapsulation "mb", Dust Protected "tb"		
Marking:	Ex eb ib op is q IIC T4 Gb Ex tb IIIC T80°C Db Ex db eb ib op is q IIC T4 Gb ¹ Ex eb ib mb op is q IIC T4 Gb ² Ex db eb ib mb op is q IIC T4 Gb ³ Ta= -20°C to +55°C ¹ With switch fitted ² With fuse fitted ³ With switch and fuse fitted		

Approved for issue on behalf of the IECEx
Certification Body:

R C Marshall

Position:

Certification Officer

Signature:
(for printed version)

Date:

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:

Eurofins E&E CML Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom





IECEx Certificate of Conformity

Certificate No.: IECEx CML 16.0135X

Page 2 of 4

Date of issue: 2019-12-04

Issue No: 1

Manufacturer: CZ Electric Co., Ltd.
No. 1 Qixing Road,
Qixing Town,
Nanhu District,
Jiaxing,
Zhejiang, 314002,
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 60079-0:2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-18:2009 Explosive atmospheres Part 18: Equipment protection by encapsulation "m"
Edition:3

IEC 60079-28:2015 Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
Edition:2

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

IEC 60079-5:2015 Explosive atmospheres –Part 5: Equipment protection by powder filling "q"
Edition:4.0

IEC 60079-7:2015 Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
Edition:5.0

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:

[GB/CML/ExTR16.0173/00](#)

[GB/CML/ExTR19.0222/00](#)

Quality Assessment Report:

[CN/CQM/QAR08.0001/06](#)



IECEx Certificate of Conformity

Certificate No.: IECEx CML 16.0135X

Page 3 of 4

Date of issue: 2019-12-04

Issue No: 1

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The CZ0264 Explosion-Proof LED Light Fittings are designed for fixed location hazardous area and rated at 100V to 250V AC. It is available with a clear plastic lens or with additional emergency sign. It is installed to run from cabled power supply but also includes a battery to allow operation in emergency situations where power is not operational. Refer to Annex for full description and conditions of manufacture.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer to Annex for specific conditions of use.



IECEx Certificate of Conformity

Certificate No.: IECEx CML 16.0135X

Page 4 of 4

Date of issue: 2019-12-04

Issue No: 1

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above) Issue 1

1. Change of applicant's and manufacturer's company name from CZ Explosion-proof Electric Appliances Co., Ltd. to CZ Electric Co., Ltd.

Annex:

[IECEx CML 16.0135X Iss. 1 Certificate Annex.pdf](#)

Annexe to: IECEx CML 16.0135X Issue 1
Applicant: CZ Electric Co., Ltd.
Apparatus: CZ0264 Explosion-Proof (Emergency)
LED Light Fitting / Exit Sign Lighting
Fittings



Product Description

The CZ0264 Explosion-Proof LED Light Fittings are designed for fixed location hazardous area and rated at 100V to 250V AC. It is available with a clear plastic lens or with additional emergency sign. It is installed to run from cabled power supply but also includes a battery to allow operation in emergency situations where power is not operational.

The design briefly comprises a plastic IP 66 rated enclosure (with optional emergency exit sign graphics), 30 diode LED light module, power module/control gear, battery, cable glands and terminals. In addition to this standard light fitting it may also be fitted with a separately certified Ex mb fuse (IECEX CWM 11.0009U) and/or Ex d switch (IECEX CQM 15.0034U).

The enclosure is made up of a transparent plastic cover and white plastic base. A silicone foam seal is located in a groove in the cover which is secured onto the base by a hinge at one end and a tool secured lock at the other.

Fixed inside the base is the power module, rechargeable battery pack, terminal block and optional fuse and/or switch. Fixed inside the lid is the LED board, indication switch (3 coloured LEDs) and optional sign.

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www.cmllex.com

Company Reg No. 8554022 VAT No. GB163023642



Conditions of Manufacture

The following are conditions of manufacture:

- i. Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
- ii. All equipment and separate circuits must satisfy the requirements of IEC 60079-7 CL 7.1 Dielectric tests (Routine) in accordance with IEC 60079-7 CL 6.1. Dielectric strength,
 - at a test voltage of 1,500 V r.m.s. + 5%, -0 % where the working voltage exceeds 90 V Peak;
 - at a test voltage of 500 V r.m.s. + 5%, -0 % where the working voltage does not exceed 90 V; Peakand maintained for at least 1 min without dielectric breakdown occurring. Alternatively, a test shall be carried out at 1,2 times the test voltage, but maintained for at least 100 ms. without dielectric breakdown occurring.
- iii. The insulating properties of each lot of filling material must satisfy the requirements of IEC 60079-5 CL 5.22 Dielectric Strength Test of the Filling Material, prior to filling process.
- iv. All transformer must satisfy the requirements of IEC 60079-11 CL 11.2 Routine Tests for Infallible Transformers where $U = 250$ V. The test voltage shall be applied for a period of at least 60 s. Alternatively, the test may be carried out at 1,2 times the test voltage, but with reduced duration of at least 1 s. The applied voltage shall remain constant during the test. The current flowing during the test shall not increase above that which is expected from the design of the circuit and shall not exceed 5 mA r.m.s. at any time. During these tests, there shall be no breakdown of the insulation between windings or between any winding and the core or the screen.
- v. Cable gland and stopping plugs when supplied must be suitably rated and certified for use in Group II (Gas) and Group III (Dust) Explosive atmospheres in accordance with the equipment markings.

Special Conditions for Safe Use (Conditions of Certification)

The following conditions relate to safe installation and/or use of the equipment.

- i. Static hazard – Clean only with a damp cloth.
- ii. Do not open when energised.
- iii. Do not discharge or replace the battery in an explosive atmosphere.



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INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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

Certificate No.:	IECEx CML 16.0135X	Page 1 of 3	Certificate history:
Status:	Current	Issue No: 0	
Date of Issue:	2016-11-25		
Applicant:	CZ EXPLOSION-PROOF ELECTRIC APPLIANCES CO., LTD No. 1 Qixing Rd, Qixing Town, Nanhu District, Jiaxing City, Zhejiang Province China		
Equipment:	CZ0264 Explosion-Proof (Emergency) LED Light Fitting / Exit sign lighting fittings		
Optional accessory:			
Type of Protection:	Flameproof "db", Increased Safety "eb", Intrinsic Safety "ib", Encapsulation "mb", Dust Protected "tb"		
Marking:	Ex db eb ib mb op is q IIC T4 Gb Ex tb III C T80°C Db Depending on options fitted. See Annex		

Approved for issue on behalf of the IECEx
Certification Body:

D R Stubbings MIET

Position:

Technical Director

Signature:
(for printed version)

Date:

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Certification Management Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom





IECEx Certificate of Conformity

Certificate No.: IECEx CML 16.0135X

Page 2 of 3

Date of issue: 2016-11-25

Issue No: 0

Manufacturer: CZ EXPLOSION-PROOF ELECTRIC APPLIANCES CO., LTD
No. 1 Qixing Rd, Qixing Town, Nanhu District, Jiaxing City, Zhejiang Province
China

Additional
manufacturing
locations:

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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

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Edition:6.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

IEC 60079-18:2009 Explosive atmospheres Part 18: Equipment protection by encapsulation "m"
Edition:3

IEC 60079-28:2015 Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
Edition:2

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

IEC 60079-5:2015 Explosive atmospheres –Part 5: Equipment protection by powder filling "q"
Edition:4.0

IEC 60079-7:2015 Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
Edition:5.0

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 Report:

[GB/CML/ExTR16.0173/00](#)

Quality Assessment Report:

[CN/CQM/QAR08.0001/04](#)



IECEx Certificate of Conformity

Certificate No.: IECEx CML 16.0135X

Page 3 of 3

Date of issue: 2016-11-25

Issue No: 0

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The CZ0264 Explosion-Proof LED Light Fittings are designed for fixed location hazardous area and rated at 100V to 250V AC. It is available with a clear plastic lens or with additional emergency sign. It is installed to run from cabled power supply but also includes a battery to allow operation in emergency situations where power is not operational. See Annex

SPECIFIC CONDITIONS OF USE: YES as shown below:

See Annex

Annex:

[972 CZ LED Emergency lamp - Certificate Annex IECEx.pdf](#)

Annexe to: IECEx CML 16.0135X Issue 0
Applicant: CZ Explosion-Proof Electric Appliances Co., Ltd.
Apparatus: CZ0264 Explosion-Proof (Emergency) LED Light Fitting / Exit sign lighting fittings



Product Description

The CZ0264 Explosion-Proof LED Light Fittings are designed for fixed location hazardous area and rated at 100V to 250V AC. It is available with a clear plastic lens or with additional emergency sign. It is installed to run from cabled power supply but also includes a battery to allow operation in emergency situations where power is not operational.

The design briefly comprises a plastic IP 66 rated enclosure (with optional emergency exit sign graphics), 30 diode LED light module, power module/control gear, battery, cable glands and terminals. In addition to this standard light fitting it may also be fitted with a separately certified Ex mb fuse (IECEx CQM 11.0009U) and/or Ex d switch (IECEx CQM 15.0034U).

The enclosure is made up of a transparent plastic cover and white plastic base. A silicone foam seal is located in a groove in the cover which is secured onto the base by a hinge at one end and a tool secured lock at the other.

Fixed inside the base is the power module, rechargeable battery pack, terminal block and optional fuse and/or switch. Fixed inside the lid is the LED board, indication switch (3 coloured LEDs) and optional sign.

Conditions of manufacture

The following are conditions of manufacture

- i. Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
- ii. All equipment and separate circuits must satisfy the requirements of IEC 60079-7 CL 7.1 Dielectric tests (Routine) in accordance with IEC 60079-7 CL 6.1. Dielectric strength,
 - at a test voltage of 1,500 V r.m.s. + 5%, -0 % where the working voltage exceeds 90 V Peak;
 - at a test voltage of 500 V r.m.s. + 5%, -0 % where the working voltage does not exceed 90 V; Peakand maintained for at least 1 min without dielectric breakdown occurring. Alternatively, a test shall be carried out at 1,2 times the test voltage, but maintained for at least 100 ms. without dielectric breakdown occurring.
- iii. The insulating properties of each lot of filling material must satisfy the requirements of IEC 60079-5 CL 5.22 Dielectric Strength Test of the Filling Material, prior to filling process.
- iv. All transformer must satisfy the requirements of IEC 60079-11 CL 11.2 Routine Tests for Infallible Transformers where $U = 250$ V. The test voltage shall be applied for a period of at least 60 s. Alternatively, the test may be carried out at 1,2 times the test voltage, but with reduced duration of at least 1 s. The applied voltage shall remain constant during the test. The current flowing during the test shall not increase above that which is expected from the design of the circuit and shall not exceed 5 mA r.m.s. at any time. During these tests, there shall be no breakdown of the insulation between windings or between any winding and the core or the screen.

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Company Reg No. 8554022 VAT No. GB163023642





- v. Cable gland and stopping plugs when supplied must be suitably rated and certified for use in Group II (Gas) and Group III (Dust) Explosive atmospheres in accordance with the equipment markings.

Conditions of Certification/Special Conditions for Safe Use

- i. Static hazard – Clean only with a damp cloth.
- ii. Do not open when energised.
- iii. Do not discharge or replace the battery in an explosive atmosphere.



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INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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

Certificate No.:	IECEx CML 16.0116X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 2	Issue 1 (2018-02-27) Issue 0 (2017-03-06)
Date of Issue:	2019-12-04		
Applicant:	CZ Electric Co., Ltd. No. 1 Qixing Road, Qixing Town, Nanhu District, Jiaxing, Zhejiang, 314002, China		
Equipment:	CZ086, CZ136 and CZ0264 Series Explosion-Proof (Emergency) LED Linear Light Fittings		
Optional accessory:			
Type of Protection:	Flameproof "db", Powder Filled "q", Increased Safety "eb", Encapsulated "mb", Optical Radiation "op is", Dust Ignition "tb"		
Marking:	Ex db eb mb op is q IIC T6/T5/T4 Gb* Ex tb op is IIIC T80°C Db Ta: -25°C to +40°C/+50°C/+55°C *When the distance switch is not fitted, the equipment is not considered to be flameproof. *Refer to description for complete marking.		

Approved for issue on behalf of the IECEx
Certification Body:

R C Marshall

Position:

Certification Officer

Signature:
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
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Ellesmere Port, CH65 4LZ
United Kingdom





IECEx Certificate of Conformity

Certificate No.: IECEx CML 16.0116X

Page 2 of 4

Date of issue: 2019-12-04

Issue No: 2

Manufacturer: CZ Electric Co., Ltd.
No. 1 Qixing Road,
Qixing Town,
Nanhu District,
Jiaxing,
Zhejiang, 314002,
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 60079-0:2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-18:2014 Explosive atmospheres – Part 18: Equipment protection by encapsulation "m"
Edition:4.0

IEC 60079-28:2015 Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
Edition:2

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

IEC 60079-5:2015 Explosive atmospheres –Part 5: Equipment protection by powder filling "q"
Edition:4.0

IEC 60079-7:2015 Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
Edition:5.0

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:

[GB/CML/ExTR17.0008/00](#)

[GB/CML/ExTR18.0027/00](#)

[GB/CML/ExTR19.0222/00](#)

Quality Assessment Report:

[CN/CQM/QAR08.0001/06](#)



IECEx Certificate of Conformity

Certificate No.: IECEx CML 16.0116X

Page 3 of 4

Date of issue: 2019-12-04

Issue No: 2

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The CZ086 Series, CZ136 Series and CZ0264 Series Explosion-proof (Emergency) LED Linear Light Fittings are designed for fixed location hazardous areas and rated at 100V to 250V AC. They are installed to run from cabled power supplies but also include the option for emergency batteries.

Refer to Annex for full description and conditions of manufacture.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer to Annex for specific conditions of use.



IECEx Certificate of Conformity

Certificate No.: IECEx CML 16.0116X

Page 4 of 4

Date of issue: 2019-12-04

Issue No: 2

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1

This issue introduced the following changes:

1. The introduction of two additional models to the CZ136 range.
2. The introduction of the CZ0264 range.
3. Clarification of the marking options available to the ranges covered.

Issue 2

This issue introduced the following changes:

1. Change of applicant's and manufacturer's company name from CZ Explosion-proof Electric Appliances Co., Ltd. to CZ Electric Co., Ltd.

Annex:

[IECEx CML 16.0116X Iss. 2 Certificate Annex_1.pdf](#)

Annexe to: IECEx CML 16.0116X Issue 2
Applicant: CZ Electric Co., Ltd.
Apparatus: CZ086, CZ136 and CZ0264 Series
Explosion-Proof (Emergency) LED
Linear Light Fittings



Product Description

The CZ086 Series, CZ136 Series and CZ0264 Series Explosion-proof (Emergency) LED Linear Light Fittings are designed for fixed location hazardous areas and rated at 100V to 250V AC. They are installed to run from cabled power supplies but also include the option for emergency batteries.

The enclosures are IP66 rated and incorporate the use of the Explosion-proof LED Light Module CZ1618/11-LED__W_, the Explosion-proof LED Power Module CZ1618/57-_x LED__W, and the Explosion-proof LED Inverter Module CZ1618/58-_x LED__W which are approved under CML ATEX 3341U and IECEx CML 16.0115U.

There are also options for the CZ0819 Series Explosion-proof battery module, the CZ0207 series Explosion-proof isolation switch module which is certified under IECEx CQM 15.0034U and the CZ0804 series explosion-proof fuse module which is certified under IECEx CQM 11.0009U.

The models are marked as below:

CZ086 Series and CZ136 Series

Ex eb mb op is q IIC T5/T4 Gb	(standard without isolation switch)
Ex db eb mb op is q IIC T5/T4 Gb	(standard with isolation switch)
Ex eb mb op is q IIC T4 Gb	(emergency without isolation switch)
Ex db eb mb op is q IIC T4 Gb	(emergency with isolation switch)
Ex tb op is IIIC T80°C Db	

The T Class for the standard versions is dependant on the ambient:

Standard versions:

T5 at $-25^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$

T4 at $-25^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$

Emergency versions

T4 at $-25^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}/+50^{\circ}\text{C}$ (CZ0865)

T4 at $-25^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}/+55^{\circ}\text{C}$ (CZ0866 and CZ136)

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Company Reg No. 8554022 VAT No. GB163023642



CZ1363 Series

Ex eb mb op is q IIC T4 Gb

Ex tb op is IIIC T80°C Db

All versions:

T4 at $-25^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$

CZ0264 Series

Ex db eb mb op is q IIC T6/T5 Gb (with isolation switch)

Ex eb mb op is qb IIC T6/T5 Gb (without isolation switch)

Ex tb op is IIIC T80°C Db

The T Class/ maximum surface temperature is dependant on the ambient:

T6 at $-25^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$

T5 at $-25^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$

Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

- i. Where the equipment incorporates certified parts or safety critical components, the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified component that is the subject of this certificate. A copy of the certification and/or instructions for the parts shall be provided as part of the luminaire document pack.
- ii. Each unit manufactured shall be subjected to an electric strength test in accordance with IEC 60079-7:2015 clause 7.1. It shall be carried out at $1000\text{ V} + 2U$ for 60 seconds or at 1.2 times this test voltage for at least 100 ms.

Specific Conditions of Use

The following conditions relate to safe installation and/or use of the equipment.

- i. Due to the risk of static hazards of the CZ086 Series and CZ0264 Luminaire Ranges, the equipment in these ranges shall only be cleaned with a damp cloth.
- ii. The CZ1618 LED, Power, Inverter and fuse modules fitted inside the luminaire enclosure are supplied permanently sealed and therefore no attempt must be made to open or repair them.



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Certificate No.:	IECEx CML 16.0116X	Page 1 of 4	<u>Certificate history:</u> Issue 0 (2017-03-06)
Status:	Current	Issue No: 1	
Date of Issue:	2018-02-27		
Applicant:	CZ Explosion-Proof Electric Appliances Co., Ltd. No. 1 Qixing Rd, Qixing Town, Nanghu District, Jiaxing, Zhejiang, P.R. China		
Equipment:	CZ086, CZ136 and CZ0264 Series Explosion-Proof (Emergency) LED Linear Light Fittings		
Optional accessory:			
Type of Protection:	Flameproof, Powder Filled, Increased Safety, Encapsulated, Optical Radiation, Dust Ignition		
Marking:	Ex db eb mb op is q IIC T6/T5/T4 Gb Ex eb mb op is q IIC T6/T5/T4 Gb Ex tb op is IIC T80°C Db Ta = -25°C ≤ Ta ≤ +40°C/+50°C/+55°C Refer to description for complete marking		

Approved for issue on behalf of the IECEx
Certification Body:

A C Smith

Position:

Technical Operations Director

Signature:
(for printed version)

Date:

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United Kingdom





IECEx Certificate of Conformity

Certificate No.: IECEx CML 16.0116X

Page 2 of 4

Date of issue: 2018-02-27

Issue No: 1

Manufacturer: CZ Explosion-proof Electric Appliances Co., Ltd.
No. 1 Qixing Rd, Qixing Town, Nanghu District, Jiaxing, Zhejiang, P.R.
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 :

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Edition:4.0

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Edition:2

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

IEC 60079-5:2015 Explosive atmospheres –Part 5: Equipment protection by powder filling "q"
Edition:4.0

IEC 60079-7:2015 Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
Edition:5.0

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:

[GB/CML/ExTR17.0008/00](#)

[GB/CML/ExTR18.0027/00](#)

Quality Assessment Report:

[CN/CQM/QAR08.0001/06](#)



IECEx Certificate of Conformity

Certificate No.: IECEx CML 16.0116X

Page 3 of 4

Date of issue: 2018-02-27

Issue No: 1

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The CZ086 Series, CZ136 Series and CZ0264 Series Explosion-proof (Emergency) LED Linear Light Fittings are designed for fixed location hazardous areas and rated at 100V to 250V AC. They are installed to run from cabled power supplies but also include the option for emergency batteries.

Refer to Annex for full description and Conditions of Manufacture.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer to Annex for Conditions of Use.



IECEx Certificate of Conformity

Certificate No.: IECEx CML 16.0116X

Page 4 of 4

Date of issue: 2018-02-27

Issue No: 1

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

The following changes were made as part of this issue:

1. The introduction of two additional models to the CZ136 range.
2. The introduction of the CZ0264 range.
3. Clarification of the marking options available to the ranges covered.

Annex:

[IECEx CML 16.0116X Iss. 1 Certificate Annex.pdf](#)

Annexe to: IECEx CML 16.0116X Issue 1
Applicant: CZ Explosion-Proof Electric Appliances Co., Ltd.
Apparatus: CZ086, CZ136 and CZ0264 Series Explosion-Proof (Emergency) LED Linear Light Fittings



Product Description

The CZ086 Series, CZ136 Series and CZ0264 Series Explosion-proof (Emergency) LED Linear Light Fittings are designed for fixed location hazardous areas and rated at 100V to 250V AC. They are installed to run from cabled power supplies but also include the option for emergency batteries.

The enclosures are IP66 rated and incorporate the use of the Explosion-proof LED Light Module CZ1618/11-LED__W_, the Explosion-proof LED Power Module CZ1618/57-_x LED__W_, and the Explosion-proof LED Inverter Module CZ1618/58-_x LED__W_ which are approved under CML ATEX 3341U and IECEx CML 16.0115U.

There are also options for the CZ0819 Series Explosion-proof battery module, the CZ0207 series Explosion-proof isolation switch module which is certified under IECEx CQM 15.0034U and the CZ0804 series explosion-proof fuse module which is certified under IECEx CQM 11.0009U.

The models are marked as below:

CZ086 Series and CZ136 Series

Ex eb mb op is q IIC T5/T4 Gb	(standard without isolation switch)
Ex db eb mb op is q IIC T5/T4 Gb	(standard with isolation switch)
Ex eb mb op is q IIC T4 Gb	(emergency without isolation switch)
Ex db eb mb op is q IIC T4 Gb	(emergency with isolation switch)
Ex tb op is IIIC T80°C Db	

The T Class for the standard versions is dependant on the ambient:

Standard versions:

T5 at $-25^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$

T4 at $-25^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$

Emergency versions

T4 at $-25^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}/+50^{\circ}\text{C}$ (CZ0865)

T4 at $-25^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}/+55^{\circ}\text{C}$ (CZ0866 and CZ136)

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CZ1363 Series

Ex eb mb op is q IIC T4 Gb

Ex tb op is IIIC T80°C Db

All versions:

T4 at $-25^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$

CZ0264 Series

Ex db eb mb op is q IIC T6/T5 Gb (with isolation switch)

Ex eb mb op is qb IIC T6/T5 Gb (without isolation switch)

Ex tb op is IIIC T80°C Db

The T Class/ maximum surface temperature is dependant on the ambient:

T6 at $-25^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$

T5 at $-25^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$

Conditions of Manufacture

There are no additional conditions of manufacture. The existing conditions are shown below for reference:

- i. Where the equipment incorporates certified parts or safety critical components, the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified component that is the subject of this certificate. A copy of the certification and/or instructions for the parts shall be provided as part of the luminaire document pack.
- ii. Each unit manufactured shall be subjected to an electric strength test in accordance with EN / IEC 60079-7:2015 clause 7.1. It shall be carried out at $1000\text{ V} + 2U$ for 60 seconds or at 1.2 times this test voltage for at least 100 ms.

Specific Conditions of Use

The following condition of certification is altered as a result of this variation:

- i. Due to the risk of static hazards of the CZ086 Series and CZ0264 Luminaire Ranges, the equipment in these ranges shall only be cleaned with a damp cloth.
- ii. The CZ1618 LED, Power, Inverter and fuse modules fitted inside the luminaire enclosure are supplied permanently sealed and therefore no attempt must be made to open or repair them.



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 CQM 10.0012

Page 1 of 4

Certificate history:

Status: Current

Issue No: 2

Issue 1 (2011-01-18)

Issue 0 (2010-04-02)

Date of Issue: 2015-12-21

Applicant:

Equipment: Full plastic explosion-proof (emergency) fluorescent light fittings CZ0865/6...

Optional accessory:

Type of Protection: Ex "d", Ex "e", Ex "q", Ex 'mb', Ex "t"

Marking: For not fitted with explosionproof fuse:

Ex db e q IIC T4 Gb Ex tb III C T83°C Db (-25°C ≤ Ta ≤ +40°C)

Ex db e q IIC T4 Gb Ex tb III C T98°C Db (-25°C ≤ Ta ≤ +55°C)

For fitted with explosionproof fuse:

Ex db e mb q IIC T4 Gb Ex tb III C T83°C Db (-25°C ≤ Ta ≤ +40°C)

Ex db e mb q IIC T4 Gb Ex tb III C T98°C Db (-25°C ≤ Ta ≤ +55°C)

Approved for issue on behalf of the IECEx
Certification Body:

Ji Xiaodong

Position:

General Manager

Signature:
(for printed version)

Date:

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:

China Quality Mark Certification Group Co., Ltd.
No. 33 Zengguang Road, Haidian District
Beijing City, Postal code: 100048
China





IECEx Certificate of Conformity

Certificate No.: IECEx CQM 10.0012

Page 2 of 4

Date of issue: 2015-12-21

Issue No: 2

Manufacturer:

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 60079-0:2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-18:2009 Explosive atmospheres Part 18: Equipment protection by encapsulation "m"
Edition:3

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

IEC 60079-5:2007-03 Explosive atmospheres - Part 5: Equipment protection by powder filling "q"
Edition:3

IEC 60079-7:2006-07 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:4

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:

[CN/CQM/ExTR10.0016/00](#)

[CN/CQM/ExTR10.0016/01](#)

[CN/CQM/ExTR10.0016/02](#)

Quality Assessment Report:

[CN/CQM/QAR08.0001/04](#)



IECEx Certificate of Conformity

Certificate No.: IECEx CQM 10.0012

Page 3 of 4

Date of issue: 2015-12-21

Issue No: 2

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Description of equipment

The enclosure of the full plastic explosion-proof (emergency) fluorescent light fitting consists of white plastic enclosure (SMC), plastic light-transmitting cover, silicone rubber foam sealing ring and the rotor shaft. Non emergency fluorescent light installs inside the bi-tube bi-pin fluorescent tube, G5 or G13 lamp holder, metal reflector, terminals, encapsulation fuse module (user's option), flameproof explosion-proof distance switch module, powder-filling explosion-proof ballast module. Besides the above, the emergency fluorescent light also installs inside the ncapsulation explosion-proof emergency indicator module, powder-filling explosion-proof inverter module, and increased safety explosion-proof battery module. The fluorescent lamp uses the rotor shaft to drive the locking plate inside the lamp to open and close the lamp. The locking plate is interlocked with the distance switch inside the lamp to ensure the automatic deenergise of the lamp-holder when the lamp is open. When the lamp is open, all the live parts inside it are with warning labels. The lamp has interlocking drag hook to prevent the lamp becoming live due to fault operation of the operator.

The certificated EX components CZ0818 explosion-proof module under IECEx CQM 10.0011U with type of protection 'e', 'q' and CZ0207 distance switch module under IECEx CQM 15.0034U with type of protection 'd', 'e' are used in the fluorescent light, CZ0804 explosion-proof fuse under IECEx CQM 11.0009U with type of protection 'e', 'mb' is used in the fuse fitted fluorescent light.

Rating

Rated voltage: 110V-240V AC 50/60Hz

Tube power: 1×14W, 1×18W, 1×28W, 1×36W, 2×14W, 2×18W, 2×28W, 2×36W

Emergency tube power: 1×14W, 1×18W, 1×28W, 1×36W

SPECIFIC CONDITIONS OF USE: NO

1. The holes for cable entries should be installed with suitably certified cable glands. The unused holes should be closed by suitably certified stopping plugs.
2. Do not open when energized.
3. Clean only with a damp cloth.
4. Do not replace the battery in the explosive gas atmosphere but in safe area.



IECEx Certificate of Conformity

Certificate No.: IECEx QM 10.0012

Page 4 of 4

Date of issue: 2015-12-21

Issue No: 2

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

1. IEC60079-0:2007, IEC60079-1:2007, IEC60079-18:2004, IEC61241-0:2004, IEC61241-1:2004 are changed to IEC60079-0:2011, IEC60079-1:2014, IEC60079-18:2009, IEC60079-31:2013.
2. Ex marking for explosive dust atmospheres is changed to Ex tb III C T98°C Db(-25°C ≤ Ta ≤ +55°C), Ex tb III C T83°C Db (-25°C ≤ Ta ≤ +40°C).
3. Ambient temperature is changed to -25°C ≤ Ta ≤ +55°C or -25°C ≤ Ta ≤ +40°C.
4. CZ0207 explosion-proof distances switch module has been certificated as EX component.
5. The material of seal ring is changed to silicone rubber foam.
6. Add type CZ086/XW-PM and CZ086/XW YJ-PM.
7. The material of stopping plug for lamp holder, terminal, lamp holder core, emergency signal lamp holder, battery cover and distances switch holder are changed to FRIANYL A3 V2 NC 1102.



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 CQM 10.0012	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 1	Issue 0 (2010-04-02)
Date of Issue:	2011-01-18		
Applicant:			
Equipment:	Full plastic explosion-proof (emergency) fluorescent light fittings CZ0865/6...		
Optional accessory:			
Type of Protection:	Ex "d", Ex "e", Ex "q", Ex 'mb', Ex 'tD'		
Marking:	Ex deq IIC T4 Gb / Ex tD A21 T80°C (without emergency function or fuse) Ex deqmb IIC T4 Gb / Ex tD A21 T80°C (with emergency function or fuse) -25°C≤Ta≤+40°C IP66		

Approved for issue on behalf of the IECEx
Certification Body:

Zhang Wei

Position:

General Manager

Signature:
(for printed version)

Date:

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No. 33 Zengguang Road, Haidian District
Beijing City, Postal code: 100037
China





IECEx Certificate of Conformity

Certificate No.: IECEx CQM 10.0012

Page 2 of 4

Date of issue: 2011-01-18

Issue No: 1

Manufacturer:

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 60079-0:2007-10 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:5

IEC 60079-1:2007-04 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:6

IEC 60079-18:2004 Electrical apparatus for explosive gas atmospheres - Part 18: Construction, test and marking of type of protection encapsulation 'm' electrical apparatus

IEC 60079-5:2007-03 Explosive atmospheres - Part 5: Equipment protection by powder filling "q"
Edition:3

IEC 60079-7:2006-07 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:4

IEC 61241-0:2004 Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
Edition:1

IEC 61241-1:2004 Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"
Edition: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 Reports:

[CN/CQM/ExTR10.0016/00](#)

[CN/CQM/ExTR10.0016/01](#)

Quality Assessment Report:

[CN/CQM/QAR08.0001/00](#)



IECEx Certificate of Conformity

Certificate No.: IECEx QM 10.0012

Page 3 of 4

Date of issue: 2011-01-18

Issue No: 1

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Description of equipment

The enclosure of the full plastic explosion-proof (emergency) fluorescent light fitting consists of white plastic shell (SMC), plastic (PC) light-transmitting cover, EPDM sealing bar and the rotor shaft. For non emergency fluorescent light, there are inside it the bi-pin fluorescent tube, G5 or G13 lamp holder, metal reflector, terminals, encapsulation fuse module (user's option), flameproof enclosure distance switch module, powder-filling ballast module. Besides the above there are the emergency indicator module, powder filling inverter module, and increased safety battery module for emergency fluorescent light. The fluorescent lamp uses the rotor shaft to drive the locking plate inside the lamp to open and close the lamp. The locking plate is interlocked with the distance switch inside the lamp to ensure the automatic de-energise of the lamp-holder when the lamp is open. When the lamp is open, all the live parts inside it are with warning labels. The lamp has interlocking drag hook to prevent the lamp becoming live due to fault operation of the operator.

Rating

AC110 ~ 240V, 50/60Hz

Tube power without emergency function : 1 x 14W, 1 x 18W, 1 x 28W, 1 x 36W, 2 x 14W, 2 x 18W, 2 x 28W, 2 x 36W

Tube power with emergency function : 1 x 14W, 1 x 18W, 1 x 28W, 1 x 36W

SPECIFIC CONDITIONS OF USE: NO



IECEx Certificate of Conformity

Certificate No.: IECEx CQM 10.0012

Page 4 of 4

Date of issue: 2011-01-18

Issue No: 1

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
The rated voltage scope is extended to AC110 ~ 240V, 50/60Hz.



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 CQM 10.0012 Page 1 of 3 [Certificate history:](#)

Status: Current Issue No: 0

Date of Issue: 2010-04-02

Applicant:

Equipment: Full plastic explosion-proof (emergency) fluorescent light fittings CZ0865/6...

Optional accessory:

Type of Protection: Ex "d", Ex "e", Ex "q", Ex 'mb', Ex 'tD'

Marking: Ex deq IIC T4 Gb / Ex tD A21 T80°C (without emergency function or fuse)
Ex deqmb IIC T4 Gb / Ex tD A21 T80°C (with emergency function or fuse)
-25°C≤Ta≤+40°C
IP66

Approved for issue on behalf of the IECEx
Certification Body:

Zhang Wei

Position:

General Manager

Signature:
(for printed version)

Date:

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Beijing City, Postal code: 100037
China





IECEx Certificate of Conformity

Certificate No.: IECEx CQM 10.0012

Page 2 of 3

Date of issue: 2010-04-02

Issue No: 0

Manufacturer:

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 60079-0:2007-10 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:5

IEC 60079-1:2007-04 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:6

IEC 60079-18:2004 Electrical apparatus for explosive gas atmospheres - Part 18: Construction, test and marking of type of protection encapsulation 'm' electrical apparatus

IEC 60079-5:2007-03 Explosive atmospheres - Part 5: Equipment protection by powder filling "q"
Edition:3

IEC 60079-7:2006-07 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:4

IEC 61241-0:2004 Electrical apparatus for use in the presence of combustible dust - Part 0: General requirements
Edition:1

IEC 61241-1:2004 Electrical apparatus for use in the presence of combustible dust - Part 1: Protection by enclosures "tD"
Edition: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:

[CN/CQM/ExTR10.0016/00](#)

Quality Assessment Report:

[CN/CQM/QAR08.0001/00](#)



IECEx Certificate of Conformity

Certificate No.: IECEx QCM 10.0012

Page 3 of 3

Date of issue: 2010-04-02

Issue No: 0

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Description of equipment

The enclosure of the full plastic explosion-proof (emergency) fluorescent light fitting consists of white plastic shell (SMC), plastic (PC) light-transmitting cover, EPDM sealing bar and the rotor shaft. For non emergency fluorescent light, there are inside it the bi-pin fluorescent tube, G5 or G13 lamp holder, metal reflector, terminals, encapsulation fuse module (user's option), flameproof enclosure distance switch module, powder-filling ballast module. Besides the above there are the emergency indicator module, powder filling inverter module, and increased safety battery module for emergency fluorescent light. The fluorescent lamp uses the rotor shaft to drive the locking plate inside the lamp to open and close the lamp. The locking plate is interlocked with the distance switch inside the lamp to ensure the automatic de-energise of the lamp-holder when the lamp is open. When the lamp is open, all the live parts inside it are with warning labels. The lamp has interlocking drag hook to prevent the lamp becoming live due to fault operation of the operator.

Rating

AC230V, 50/60Hz

Tube power without emergency function : 1 x 14W, 1 x 18W, 1 x 28W, 1 x 36W, 2 x 14W, 2 x 18W, 2 x 28W, 2 x 36W

Tube power with emergency function : 1 x 14W, 1 x 18W, 1 x 28W, 1 x 36W

SPECIFIC CONDITIONS OF USE: NO