



CNEX-GLOBAL

[1] EU-TYPE EXAMINATION CERTIFICATE

[2] **Equipment or Protective System intended for use
in Potentially Explosive Atmospheres
Directive 2014/34/EU**



[3] EU-Type Examination Certificate Number: **CNEX 25 ATEX 0020 X Issue 0**

[4] Equipment : **LED Explosion-Proof Light model CES-EX-LNX*******

[5] Manufacturer : **Shenzhen CESP Co., Ltd.**

[6] Address : **Room 601, 602, 603 and 605, Wangcheng Bldg, No.3 Longguan East Road,
Longhua St., Longhua District, Shenzhen 518109, P.R. China**

[7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] CNEX-Global B.V., Notified Body number 2614, in accordance with Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No. **P25060A-CS**.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-7:2015 EN IEC 60079-7:2015/A1:2018

EN 60079-18:2015 EN 60079-18:2015/A1:2017 EN 60079-31:2014

except in respect of those requirements listed at item 18 of the Schedule.

[10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to specific conditions for use specified in the schedule to this certificate.

[11] This EU – Type examination certificate relates only to the design of the specified equipment or protective system. Further requirements of the Directive apply to the manufacture and supply of this equipment or protective system. These are not covered by this certificate.

[12] The marking of the equipment or protective system shall include the following:

II 2G Ex db eb mb IIC T6/T5 Gb or II 2G Ex eb mb IIC T6/T5 Gb

II 2D Ex tb IIIC T80°C/ T95°C Db

Certification officer : Hou Yandong

Signature:

Date of issue : 2025-07-07

Certification Body: CNEX-Global B.V., Utrechtseweg 310-B42, 6812 AR Arnhem, The Netherlands

This certificate may only be reproduced in its entirety and without any change, including schedule

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[15] Description of equipment:

The CES-EX-LNX***** series LED Explosion-proof Light is type of "Ex db eb mb" with Ex power-off switch, and "Ex eb mb" without Ex power-off switch. The sealing rings in the joints in order to conform to the structural requirements of dust ignition protection. The products are equipped with "Ex db eb" Ex power-off switch, certified Ex driving power supply, Ex emergency power supply (with battery pack and light module), Ex LED module and 4-conductor device connector. The enclosure mainly comprises shell and lampshade. The shell material is stainless steel (304 or 316L), Min. Thickness 0.8mm, lampshade material is PC, Min. thickness 3.5mm. There are up to four cable entries on the housing. There is a protective sealing ring between the shell and lampshade. The two latches on the diagonal corners of each light fittings enclosure have anti-fallout screws that can only be loosened or removed from the Ex eb enclosure with a tool, and the fastener screws are anti-fallout construction.

Nomenclature for model CES-EX-LNX a b c d e:

CES-EX-LNX - Series type

a - Power (20=20W, 30=30W, 40=40W, 60=60W)

b - Dimming (D0=Non-Dimming, D1=Dimming)

c - Emergency

En=No emergency

Ea1=External emergency power supply, AC/DC 110V~277V, Emergency power 3.5W

Ea2=External emergency power supply, AC/DC 110V~277V, Emergency power, 7W

Ea3=External emergency power supply, AC/DC 110V~277V, Emergency power, 10W

Ea4=External emergency power supply, AC/DC 110V~277V, Emergency power, 15W

Ed1=External emergency power supply, DC 24V, Emergency power 3.5W

Ed2=External emergency power supply, DC 24V, Emergency power 7W

Ed3=External emergency power supply, DC 24V, Emergency power 10W

Ed4=External emergency power supply, DC 24V, Emergency power 15W

Eb1=Internal battery Emergency, Emergency power 3.5W

Eb2=Internal battery Emergency, Emergency power 7W

Eb3=Internal battery Emergency, Emergency power 10W

Eb4=Internal battery Emergency, Emergency power 15W

d - Shell Dimension (A=Short enclosure, B=Long enclosure)

e - Ex power-off switch

(d=With Ex power-off switch, None=Without Ex power-off switch)

Electrical Data:

Rated voltage : 110V~277Vac, 50/60Hz

Rated power : 20W ...60W

For more details, see Annex.

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Mounting Instructions:

See manufacturer's instructions.

Installation Instructions:

See manufacturer's instructions.

Routine tests:

Detailed in the Test Report Cover document. **(P25060I-CS)**.

[16] Descriptive Documents:

Detailed in the Test Report Cover document. **(P25060I-CS)**.

[17] Specific Conditions for Use:

For models CES-EX-LNX**Eb1**, the ambient temperature range is limited to -20°C... +40°C/+55°C.

For other models, the ambient temperature range is limited to -40°C... +40°C /+55°C.

The schedule of limitations in the certificate for the Ex components used inside the explosion-proof light must be fulfilled.

Before application, separate ATEX certified cable gland are to be used, suitable for the conditions of use, rated minimum IP66 and correctly installed.

The Ex power-off switch is not intended to be repaired in any way.

When using external emergency power supply, the external power supply and the main circuit power supply are not allowed to work simultaneously. The external emergency power supply should be located in a safe zone or meet explosion-proof requirements.

[18] Essential Health and Safety Requirements:

The Essential Health and Safety Requirements are covered by the standards listed at item [9].

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in ANNEX III to Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014.

Additional Information:

The enclosures of the LED Explosion-Proof Light model CES-EX-LNX****, successfully passed the tests for the Ingress Protection Level IP66 to EN 60529.

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Annex

The following models (with parameters) are covered by this certificate:

No.	Model	Input voltage	Emerg. power	Emergency voltage	Ex marking	Ambient temperature range
1	CES-EX-LNX**En*d	AC110~277V 50/60Hz	--	--	Ex db eb mb IIC T6 Gb Ex tb IIIC T80°C Db	-40°C~+40°C
					Ex db eb mb IIC T5 Gb Ex tb IIIC T95°C Db	-40°C~+55°C
2	CES-EX-LNX**En*		--	--	Ex eb mb IIC T6 Gb Ex tb IIIC T80°C Db	-40°C~+40°C
					Ex eb mb IIC T5 Gb Ex tb IIIC T95°C Db	-40°C~+55°C
3	CES-EX-LNX**Ea1*d		3.5W		Ex db eb mb IIC T6 Gb Ex tb IIIC T80°C Db	-40°C~+40°C
					Ex db eb mb IIC T5 Gb Ex tb IIIC T95°C Db	-40°C~+55°C
4	CES-EX-LNX**Ea1*		3.5W		Ex eb mb IIC T6 Gb Ex tb IIIC T80°C Db	-40°C~+40°C
					Ex eb mb IIC T5 Gb Ex tb IIIC T95°C Db	-40°C~+55°C
5	CES-EX-LNX**Ea2*d		7W		Ex db eb mb IIC T6 Gb Ex tb IIIC T80°C Db	-40°C~+40°C
					Ex db eb mb IIC T5 Gb Ex tb IIIC T95°C Db	-40°C~+55°C
6	CES-EX-LNX**Ea2*	AC110~277V 50/60Hz	7W	External emergency power supply,	Ex eb mb IIC T6 Gb Ex tb IIIC T80°C Db	-40°C~+40°C
					Ex eb mb IIC T5 Gb Ex tb IIIC T95°C Db	-40°C~+55°C

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7	CES-EX-LNX**Ea3*d		10W	AC/DC 110~277V	Ex db eb mb IIC T6 Gb Ex tb IIIC T80°C Db	-40°C~+40°C
					Ex db eb mb IIC T5 Gb Ex tb IIIC T95°C Db	-40°C~+55°C
8	CES-EX-LNX**Ea3*		10W		Ex eb mb IIC T6 Gb Ex tb IIIC T80°C Db	-40°C~+40°C
					Ex eb mb IIC T5 Gb Ex tb IIIC T95°C Db	-40°C~+55°C
9	CES-EX-LNX**Ea4*d		15W		Ex db eb mb IIC T6 Gb Ex tb IIIC T80°C Db	-40°C~+40°C
					Ex db eb mb IIC T5 Gb Ex tb IIIC T95°C Db	-40°C~+55°C
10	CES-EX-LNX**Ea4*		15W		Ex eb mb IIC T6 Gb Ex tb IIIC T80°C Db	-40°C~+40°C
					Ex eb mb IIC T5 Gb Ex tb IIIC T95°C Db	-40°C~+55°C
11	CES-EX-LNX**Ed1*d		3.5W		Ex db eb mb IIC T6 Gb Ex tb IIIC T80°C Db	-40°C~+40°C
					Ex db eb mb IIC T5 Gb Ex tb IIIC T95°C Db	-40°C~+55°C
12	CES-EX-LNX**Ed1*		3.5W		Ex eb mb IIC T6 Gb Ex tb IIIC T80°C Db	-40°C~+40°C
					Ex eb mb IIC T5 Gb Ex tb IIIC T95°C Db	-40°C~+55°C
13	CES-EX-LNX**Ed2*d	AC110~ 277V 50/60Hz	7W	External emergency power supply, DC24V	Ex db eb mb IIC T6 Gb Ex tb IIIC T80°C Db	-40°C~+40°C
					Ex db eb mb IIC T5 Gb Ex tb IIIC T95°C Db	-40°C~+55°C
	CES-EX-				Ex eb mb IIC T6 Gb	-40°C~+40°C

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14	LNx**Ed2*				Ex tb IIIC T80°C Db	
					Ex eb mb IIC T5 Gb	-40°C~+55°C
					Ex tb IIIC T95°C Db	
15	CES-EX-LNx**Ed3*d		10W		Ex db eb mb IIC T6 Gb	-40°C~+40°C
					Ex tb IIIC T80°C Db	
					Ex db eb mb IIC T5 Gb	-40°C~+55°C
					Ex tb IIIC T95°C Db	
16	CES-EX-LNx**Ed3*				Ex eb mb IIC T6 Gb	-40°C~+40°C
					Ex tb IIIC T80°C Db	
					Ex eb mb IIC T5 Gb	-40°C~+55°C
					Ex tb IIIC T95°C Db	
17	CES-EX-LNx**Ed4*d		15W		Ex db eb mb IIC T6 Gb	-40°C~+40°C
					Ex tb IIIC T80°C Db	
					Ex db eb mb IIC T5 Gb	-40°C~+55°C
					Ex tb IIIC T95°C Db	
18	CES-EX-LNx**Ed4*				Ex eb mb IIC T6 Gb	-40°C~+40°C
					Ex tb IIIC T80°C Db	
					Ex eb mb IIC T5 Gb	-40°C~+55°C
					Ex tb IIIC T95°C Db	
19	CES-EX-LNx**Eb1*d	AC110~277V 50/60Hz	3.5W	Internal Ex emergency power supply, 3.6V-3000mAh Ni-Cd battery Emergency power Supply	Ex db eb mb IIC T6 Gb	-20°C~+40°C
					Ex tb IIIC T80°C Db	
					Ex db eb mb IIC T5 Gb	-20°C~+55°C
					Ex tb IIIC T95°C Db	
20	CES-EX-LNx**Eb1*				Ex eb mb IIC T6 Gb	-20°C~+40°C
					Ex tb IIIC T80°C Db	
					Ex eb mb IIC T5 Gb	-20°C~+55°C
					Ex tb IIIC T95°C Db	

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21	CES-EX-LNX**Eb2*d		7W		Ex db eb mb IIC T6 Gb Ex tb IIIC T80°C Db	-40°C~+40°C
					Ex db eb mb IIC T5 Gb Ex tb IIIC T95°C Db	-40°C~+55°C
22	CES-EX-LNX**Eb2*		7W		Ex eb mb IIC T6 Gb Ex tb IIIC T80°C Db	-40°C~+40°C
					Ex eb mb IIC T5 Gb Ex tb IIIC T95°C Db	-40°C~+55°C
23	CES-EX-LNX**Eb3*d		10W	Internal Ex emergency power supply, 9.6V-3500mAh lithium iron phosphate battery	Ex db eb mb IIC T6 Gb Ex tb IIIC T80°C Db	-40°C~+40°C
					Ex db eb mb IIC T5 Gb Ex tb IIIC T95°C Db	-40°C~+55°C
24	CES-EX-LNX**Eb3*		10W	Emergency power supply	Ex eb mb IIC T6 Gb Ex tb IIIC T80°C Db	-40°C~+40°C
					Ex eb mb IIC T5 Gb Ex tb IIIC T95°C Db	-40°C~+55°C
25	CES-EX-LNX**Eb4*d		15W		Ex db eb mb IIC T6 Gb Ex tb IIIC T80°C Db	-40°C~+40°C
					Ex db eb mb IIC T5 Gb Ex tb IIIC T95°C Db	-40°C~+55°C
26	CES-EX-LNX**Eb4*		15W		Ex eb mb IIC T6 Gb Ex tb IIIC T80°C Db	-40°C~+40°C
					Ex eb mb IIC T5 Gb Ex tb IIIC T95°C Db	-40°C~+55°C

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Installed certified equipment/components:

Component Type (s)	Manufacturer	ATEX Certificate	Ex Marking	Ambient/Service temperature range	IEC standards
Ex LED module ExLMD300X 70RP36W	Shenzhen CESP Co., Ltd.	CNEX 25 ATEX 0017U	Ex mb IIC Gb	-40°C... +115°C	EN IEC 60079-0:2018 EN 60079-18:2015 EN 60079-18:2015/ A1:2017
Ex driver Power supply ExLDRA*D*En	Shenzhen CESP Co., Ltd.	CNEX 25 ATEX 0018U	Ex eb mb IIC Gb	-40°C... +100°C	EN IEC 60079-0:2018 EN 60079-7:2015, EN IEC 60079-7:2015/ A1:2018 EN 60079-18:2015 EN 60079-18:2015/ A1:2017
emergency power supply ExLDRA*D0Eb	Shenzhen CESP Co., Ltd.	CNEX 25 ATEX 0019U	Ex eb mb IIC Gb	-40°C... +100°C Ni-Cd battery: -20°C ... +70°C Lithium iron phosphate battery: -40°C ... +70°C	EN IEC 60079-0:2018 EN 60079-7:2015, EN IEC 60079-7:2015/ A1:2018 EN 60079-18:2015 EN 60079-18:2015/ A1:2017
4-conductor Device connector 862-1503/ 999-950	WAGO Kontakttechnik GmbH & Co.KG	PTB 03ATEX1189U	Ex eb IIC Gb	-55°C... +105°C	EN IEC 60079-0:2018 EN 60079-7:2015, EN IEC 60079-7:2015/ A1:2018

Note: The different Ex components/equipment were equipped with in different models of this series light refer to detailed schedule drawings.