



# 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 NEP 21.0005X** Page 1 of 3 [Certificate history:](#)  
Status: **Current** Issue No: 0  
Date of Issue: 2021-03-30  
Applicant: **Dongguan Pan American Electronics Co., Ltd.**  
No.175 BeiWang Road  
Zhongtang Town  
DongGuan City, GuangDong Province 523227  
China  
Equipment: **LED luminaires Model Ex-\*W\*N\*D\***  
Optional accessory:  
Type of Protection: **Ex db, Ex tb**  
Marking: Ex db II C T6...T4 Gb, Ex tb III C T80°C...T130°C Db

Approved for issue on behalf of the IECEx  
Certification Body:

**Xu Jianping**

Position:

**Managing Director**

Signature:  
(for printed version)

Date:

\_\_\_\_\_  
\_\_\_\_\_

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Certificate issued by:

**Shanghai Inspection and Testing Institute of Instruments  
and Automatic Systems Co., Ltd. (SITI/IAS)/  
National Supervision and Inspection Center for Explosion  
Protection and Safety of Instrumentation (NEPSI)  
103 Cao Bao Road  
Shanghai 200233  
China**



**SITI/IAS**  
Worldwide Access



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Date of issue: 2021-03-30

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Manufacturer: **Dongguan Pan American Electronics Co., Ltd.**  
No.175 BeiWang Road  
Zhongtang Town  
DongGuan City, GuangDong Province 523227  
**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 60079-1:2014-06** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

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

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/NEP/ExTR21.0005/00](#)

Quality Assessment Report:

[CN/NEP/QAR19.0007/03](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

Inside the enclosures, LED chips, driver, terminal block. Gaskets are provided to guarantee the IP66 protection. And only the drive enclosure cover is intended to be opened while installation or maintenance. There are 3 thread holes on the drive enclosure wall, all are used for cable entry and installed with certified cable glands and blanking plugs by end user. And thread type M16, M25 or 3/4NPT could be applied. The degree of protection of LED luminaires is IP66 (IEC60529).

Refer to Annex for further information.

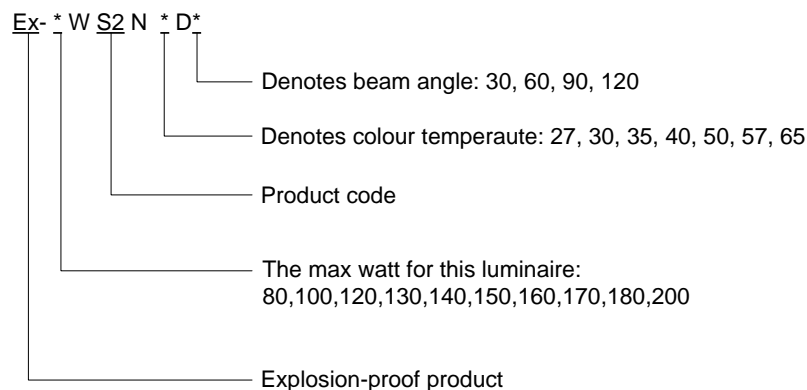
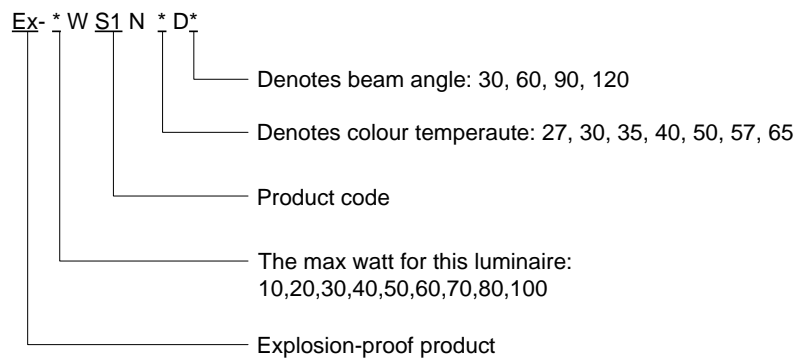
## **SPECIFIC CONDITIONS OF USE: YES as shown below:**

1. The internal and external earth connection facility should be connected reliably.
2. When LED luminaires are installed in explosive gas atmosphere, cable gland or blanking plug, with type of protection Ex db II C Gb, Ex tb III C Db, threaded type M16×1.5, M25×1.5 or 3/4NPT and degree of protection IP66, shall be adopted.
3. The Special fastener shall have a property class of A2-70.
4. Contact the original manufacturer for the information of dimension of flameproof joint
5. The service temperature of cable for field wiring shall be no less than 105°C.
6. Observe the warning: "DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT!". "POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS!"

## **Annex:**

[IECEX NEP 21.0005 Annex.pdf](#)

Type definition:



Rating:

100~277VAC 50/60Hz

The relation between applicable ambient temperature, temperature class, maximum temperature and maximum input power are as below:

Model	Ambient temperature	Explosive gas atmosphere	Explosive dust atmosphere	Maximum input power(W)
		Temperature class	Maximum surface temp.	
Ex-*WS1N*D*	-40°C~+40°C	T6	T80°C	80
	-40°C~+60°C	T5	T95°C	80
	-40°C~+40°C	T5	T95°C	100
	-40°C~+60°C	T4	T130°C	100
Ex-*WS2N*D*	-40°C~+40°C	T6	T80°C	150
	-40°C~+55°C	T5	T95°C	150
	-40°C~+40°C	T5	T95°C	200