



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: IECEx TUR 15.0023X Issue No: 0 Certificate history:  
Issue No. 0 (2015-10-12)

Status: **Current** Page 1 of 3

Date of Issue: **2015-10-12**

Applicant: **Aeon lighting Technology Inc.**  
Room 8, 16F., No.2, Jian 8th Rd., Zhonghe Dist., New Taipei City 235  
**Taiwan**

Electrical Apparatus: **Anti-Explosive LED Lamp**  
Optional accessory: *Type E01B\*\*\*\*\_\**

Type of Protection: **Ex d**

Marking: Ex d IIC T5...T3 Gb

Approved for issue on behalf of the IECEx  
Certification Body:

Dipl.-Ing. Klauspeter Graffi

Position:

Head of Certification Body

Signature:  
(for printed version)

Date:

2015-10-12

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**TUV Rheinland Industrie Service GmbH**  
Am Grauen Stein  
51105 Cologne  
Germany





# IECEX Certificate of Conformity

Certificate No: IECEx TUR 15.0023X Issue No: 0  
Date of Issue: 2015-10-12 Page 2 of 3  
Manufacturer: **Aeon lighting Technology Inc.**  
Room 8,16F., No.2,Jian 8th Rd.,Zhonghe Dist.,New Taipei City 235  
**Taiwan**

Additional Manufacturing  
location(s):

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 electrical apparatus 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

*This Certificate **does not** indicate compliance with electrical 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/TUR/ExTR15.0026/00](#)

Quality Assessment Report:

[GB/SIR/QAR15.0017/00](#)



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

Anti-Explosive LED Lamp type E01B\*\*\*\*-\*

The Anti-Explosive LED Lamp type E01B\*\*\*\*-\* is suitable for hazardous area zone 1 and zone 2. The lamp has metallic enclosure with installed connection cable. The lamp will be installed to ceiling by three M10 screws, and the metallic bracket is fixed on the enclosure of the lamp by two M12 screws. The external earthing of enclosure is considered. In addition, the cable gland M16x1.5 shall be installed to the enclosure of Ex lamp type E01B\*\*\*\*-\* by AEON Lighting directly, no any additional operation is required to end user.

Additional information:  
See attachment

**CONDITIONS OF CERTIFICATION: YES as shown below:**

See attachment

### Annex:

[DE-IECEx\\_TUR\\_15.0023X\\_00\\_Attachment\\_2015-09-14.pdf](#)



Attachment to to Certificate IECEX TUR 15.0023 X

**Device:** Anti-Explosive LED Lamp  
**Type:** E01B\*\*\*\*-\*

**Manufacturer:** Aeon lighting Technology Inc.

**Address:** Room 8,16F., No.2,Jian 8th Rd.,Zhonghe Dist.  
New Taipei City 235  
Taiwan(R.O.C.)

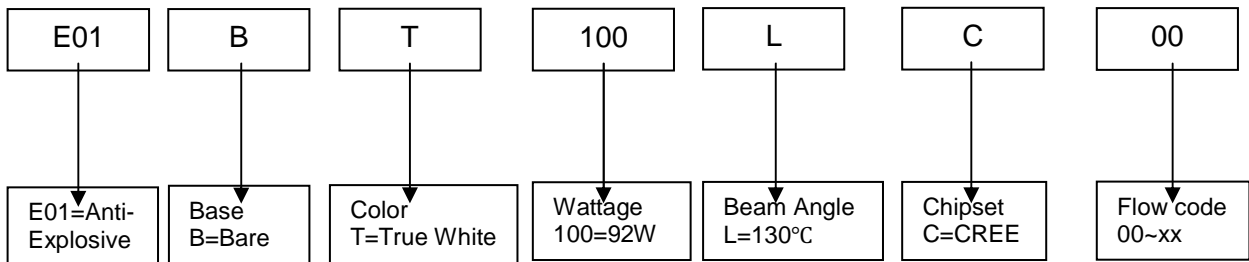
**General product information:**

Subject and type

Anti-Explosive LED Lamp type E01B\*\*\*\*-\*

The description of type code:

For Example:



**Product Matrix:**

Model	E01=Anti-Explosive					
Base	B = Bare Wire					
Color	T = True White		N = Nature White		W= Warm White	
Wattage	100 = 92W	75 = 72W				
Beam Angle	T = 20°C	B = 30°C	H=45°C	G =60°C	S =90°C	L = 130°C
Chipset	C= CREE	F=Lumileds	S= Osram			
Flow Code	00=Normal					

Description

The Anti-Explosive LED Lamp type E01B\*\*\*\*-\* is suitable for hazardous area zone 1 and zone 2.  
The lamp has metallic enclosure with installed connection cable.  
The lamp will be installed to ceiling by three M10 screws, and the metallic bracket is fixed on the enclosure of the lamp by two M12 screws.  
The external earthing of enclosure is considered.

In addition, the cable gland M16x1.5 shall be installed to the enclosure of Ex lamp type E01B\*\*\*\*-\* by AEON Lighting directly, no any additional operation is required to end user.



Attachment to Certificate  
IECEX TUR 15.0023 X  
Revision 0

Parameters

Electrical parameters

Rated voltage	100~240V AC	E01B****-*
Rated power	92W	E01B*100**-*
	72W	E01B*75**-*

Thermal parameters

Ambient temperature range	-40°C ≤ Ta ≤ +50°C	
Temperature class(with LENS) (Beam Angle≠130°C)	T5	E01BN1**S-* E01BW**F-*
	T4	E01BT***-* E01BN**C-*  E01BN**F-* E01BW**C-* E01BW**S-*
Temperature class(no LENS) (Beam Angle=130°C)	T4	E01B**LF-* E01B**LS-*
	T3	E01B**LC-*

**Specific Conditions of Use**

1. The end user must install earthing wire according to user manual before use.
2. The Anti-Explosive LED Lamp can be used in a zone 1 and zone 2 only(Gas).
3. The relevant national regulations which apply to the installation of electrical apparatus in explosive atmospheres shall be observed (IEC 60079-14).
4. The relevant national regulations which apply to the maintenance/servicing of electrical apparatus in explosive atmospheres shall be observed (IEC 60079-17). The interval between maintenance depends upon the ambient conditions and the hours of operation. The recommendations given within EN/IEC 60079-17 for recurring checks must be observed.
5. For cable gland, an additional method shall be adopted to prevent pulling or twisting forces being transmitted to the conductor connections. After installed, the connection cable must be fixed as near as possible to the Ex lighting.
6. The minimum length of this connection cable shall be 1.5m.
7. The ambient temperature of Ex LED lamp E01B\*\*\*\*-\*: -40°C to +50°C.