



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

Certificate No.: IECEX TUR 14.0025X

Issue No: 1

Certificate history:

Status: **Current**

Issue No. 1 (2017-11-09)

Issue No. 0 (2014-07-03)

Date of Issue: **2017-11-09**

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Applicant: **TOP HI-TECH CO.,LTD.**

5F,NO.113,Zhongcheng Rd, Tucheng Dist, New Taipei City 236, Taiwan (R.O.C)
Taiwan

Equipment: **Universal Explosion Proof LED Lighting**

Optional accessory: *Type: THT-2*A*d***1105A*

Type of Protection: **Equipment protection by flameproof "d", Equipment dust ignition protection by enclosure "t"**

Marking:

Ex d IIB + H2 T6...T4 Gb
Ex tb IIIC T108°C Db

Approved for issue on behalf of the IECEx
Certification Body:

Dipl.-Ing. Klauspeter Graffi

Position:

Head of Certification Body

Signature:
(for printed version)

Date:


2017-11-09

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 14.0025X Issue No: 1
Date of Issue: 2017-11-09 Page 2 of 4
Manufacturer: TOP HI-TECH CO.,LTD.
2F, No. 81, Zhongcheng Rd,
Tucheng Dist., New Taipei City 236,
Taiwan (R.O.C)
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 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*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/ExTR14.0025/00](#) [DE/TUR/ExTR14.0025/01](#)

Quality Assessment Report:

[DE/TUR/QAR13.0016/00](#) [DE/TUR/QAR13.0016/01](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Subject and type

Universal Explosion Proof LED Lighting type THT-2*A*d***1105A
(see annex for description of type code)

Description

The lamp Universal Explosion Proof LED Lighting type THT-2*A*d***1105A is suitable for hazardous area zone 1, zone 2, zone 21 and zone 22. The lamp has metallic enclosure with a coating on it. The method of lamp install included hanging/ceiling/wall, stanchion 25 °C /90 °C and pendant. The external earthing of enclosure is considered.

Parameters

Elektrische Daten/ Electrical data

Rated voltage	110VAC	THT-2*A*d*1*1105A
	220VAC	THT-2*A*d*2*1105A
Rated power	40W	THT-2*A40Wd***1105A
	60W	THT-2*A60Wd***1105A
Temperature class	T6	THT-2KA*d6**1105A
	T5	THT-2LA*d5*W1105A
	T4	THT-2LA*d4*C1105A

Umgebungsdaten/ Environmental data

Ambient temperature range -20°C to +40°C

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The G3/4' cable gland will be installed by end user, the rest unused holes shall be blocked by screw plug which comply with the requirements of standards IEC 60079-1 and IEC 60079-31.
- The power cable will be installed by end user, and the end user can use the cable which is specified in the user manual only.
- The end user must install earthing wire according to user manual before use.



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

Details of change:

- add the new SMD LED module as the light source

- update to newest standard, see standards above

Annex:

[DE-IECEX_TUR_14.0025X_00_Attachment_2014-07-03.pdf](#)



Attachment to to Certificate IECEX TUR 14.0025 X

Device: Universal Explosion Proof LED Lighting
THT-2LA*d***1105A

Manufacturer: TOP HI-TECH CO.,LTD.

Address: 5F,NO.113,Zhongcheng Rd,
Tucheng Dist,New Taipei City 236,
Taiwan (R.O.C)

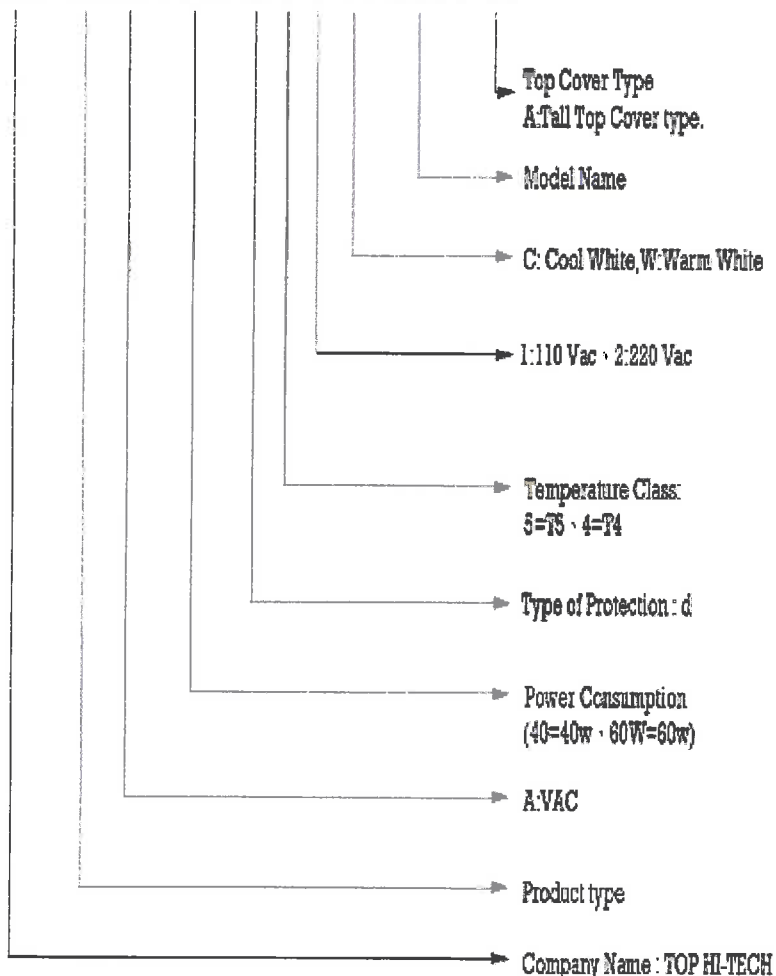
General product information:

Subject and type

Universal Explosion Proof LED Lighting type THT-2LA*d***1105A

The description of type code:

THT-2LA 60W d 5 I W 1105 A





Attachment to Certificate
IECEX TUR 14.0025 X
Revision 0

Description

The lamp Universal Explosion Proof LED Lighting type THT-2LA*d***1105A is suitable for hazardous area zone 1, zone 2, zone 21 and zone 22.

The lamp has metallic enclosure with a coating on it.

The method of lamp install included hanging/ceiling/wall, stanchion 25°C/90°C and pendant.
The external earthing of enclosure is considered.

Parameters

Electrical parameters

Rated voltage 110VAC THT-2LA*d*1*1105A
 220VAC THT-2LA*d*2*1105A

Rated power 40W THT-2LA40Wd***1105A
 60W THT-2LA60Wd***1105A

Thermal parameters

Ambient temperature range -20°C ≤ Ta ≤ +40°C

Temperature class T5 THT-2LA*d5*W1105A
 T4 THT-2LA*d4*C1105A

“Conditions of Use” for Ex Equipment, if any:

1. The G3/4' cable gland will be installed by end user, the rest unused holes shall be blocked by screw plug which comply with the requirements of standards IEC 60079-1 and IEC 60079-31.
2. The power cable will be installed by end user and the end user can use the cable which is specified in the user manual only.
3. The end user must install earthing wire according to user manual before use.