



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 13.0016X issue No.:0 Certificate history:

Status: **Current**

Date of Issue: **2013-12-13** Page 1 of 3

Applicant: **TOP HI-TECH CO.,LTD.**
5F,NO.113,Zhongcheng Rd,
Tucheng Dist,New Taipei City 236,
Taiwan (R.O.C)
Taiwan

Electrical Apparatus: **Universal Explosion Proof LED Lighting type THT-2LA20Wd***1203**
Optional accessory:

Type of Protection: **Flameproof Enclosure 'd', Protection by Enclosure 't'**

Marking: **Ex d IIB + H2 T5...T4 Gb**
Ex tb IIIC T105°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:

2013-12-13

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





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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 Explosive atmospheres - Part 0: General requirements
Edition: 6.0

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

IEC 60079-31 : 2008 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'
Edition: 1

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/ExTR13.0016/00](#)

Quality Assessment Report:

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



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Subject and type

Description

The lamp Universal Explosion Proof LED Lighting type THT-2LA20Wd***1203 is suitable for hazard zones zone 1, zone 2, zone 21, and zone 22. The enclosure of lamp is made by aluminium alloy with a coating and the nameplate is made by stainless steel. The method of lamp installation includes bracket fixed, pendant, stanchion 90°/25° and hanging. The external earthing of enclosure is considered.

Parameters

Electrical parameters

Rated voltage

110 VAC (THT-2LA20Wd*1*1203)

220 VAC (THT-2LA20Wd*2*1203)

24 VAC (THT-2LA20Wd*3*1203)

Rated power 20 W

Thermal parameters

Ambient temperature range $-20^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$

Temperature class

T4 (THT-2LA20Wd4*1203)

T5 (THT-2LA20Wd5*W1203)

CONDITIONS OF CERTIFICATION: YES as shown below:

1. When G1/2' cable gland is installed, 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 in the user manual only.
3. The end user must install earthing wire according to user manual before use.