

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 17.0058X

Issue No: 0

Certificate history:

Issue No. 0 (2018-06-12)

Status:

Current

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Date of Issue:

2018-06-12

Applicant:

TOP HI-TECH CO.,LTD.

9F., No.1, Zhongshan Rd., Tucheng Dist., New Taipei City 23680

Taiwar

Equipment:

Universal Explosion Proof LED Lighting

Optional accessory:

THTE1701ACK*A*-*

Type of Protection:

"db" and "tb"

Marking:

Ex db IIC T4 Gb

Ex tb IIIC T130°C Db (-20°C≤Ta≤+55°C)

Ex db IIC T5 Gb

Ex tb IIIC T95°C Db (-20°C≤Ta≤+40°C)

Approved for issue on behalf of the IECEx

Certification Body:

Dipl.-Ing. Klauspeter Graffi

Position:

Signature:

(for printed version)

Date:

Head of Certification Body

2018-96-12

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.

Certificate issued by:

TUV Rheinland Industrie Service GmbH Am Grauen Stein 51105 Cologne Germany





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Manufacturer:

TOP HI-TECH CO.,LTD.

9F., No.1, Zhongshan Rd., Tucheng Dist., New Taipei City 23680

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 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

IEC 60079-31: 2013

Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

Edition:2

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/ExTR17.0058/00

Quality Assessment Report:

DE/TUR/QAR13.0016/00 DE/TUR/QAR13.0016/01

DE/TUR/QAR13.0016/02



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Description:

The lamp Universal Explosion Proof LED Lighting type THTE1701ACK*A*-* is designed according to the standard structure of the IEC 60079-0, IEC 60079-1 and IEC 60079-31. The suitable hazardous areas are zone1, zone2, zone21 and zone22.

The enclosure of lamp is made by aluminium alloy (ADC12).

The method of lamp mounting includes pendant, wall, adjustable trunnion mounting bracket, electrical tube mounting.

The external earthing of enclosure is provided.

Subject and type:

Universal Explosion Proof LED Lighting. Type THTE1701ACK*A*-*

Parameters:

Electrical parameters
Rated voltage 120 Vac~277 Vac (±10%), 50 & 60 Hz
Rated power 60W, 80W, 100W
Thermal parameters
Temperature class T4(-20°C≤Ta≤+55°C)
T5(-20°C≤Ta≤+40°C)
Maximum surface temperature 97.4°C (-20°C≤Ta≤+55°C)
82.4°C (-20°C≤Ta≤+40°C)

SPECIFIC CONDITIONS OF USE: YES as shown below:

- 1. Do not clean or rub when an explosive atmosphere may be present.
- 2. A copper plate used as one part of flameproof joint, and the safe use information in the instruction for the copper shall be observed strictly.
- 3. The maximum cable length from conductor branching point of cable gland to inside flameproof enclosure no more than 16.5 cm when
- 4. Maintenance work is not permitted on flameproof enclosures. Repairs are only to be carried out by the manufacturer.

Annex:

DE-IECEx_TUR_17.0058X_00_Attachment_2018-06-06.pdf



Attachment to Certificate IECEX TUR 17.0058 X Revison 0

Attachment to Certificate IECEx TUR 17.0058 X

Device: Universal Explosion Proof LED Lighting

THTE1701ACK*A*-*

Manufacturer: TOP HI-TECH CO., LTD.

Address: 9F., No.1, Zhongshan Rd., Tucheng Dist., New Taipei City 23680,

Taiwan

General product information:

Description:

The lamp Universal Explosion Proof LED Lighting type THTE1701ACK*A*-* is designed according to the standard structure of the IEC 60079-0, IEC 60079-1 and IEC 60079-31. The suitable hazardous areas are zone1, zone2, zone21 and zone22.

The enclosure of lamp is made by aluminium alloy (ADC12).

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Subject and type:

Universal Explosion Proof LED Lighting. Type THTE1701ACK*A*-*

THT	Е	1701	A	С	K	С	A	JO	-825
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)

- (1) Brand name, THT = Top Hi-Tech Co., Ltd
- (2) Category of product, E = Explosion proof lighting fixtures
- (3) Model name, 1701 = Model L1701 series
- (4) Sub-series designation, A = Use EVERLIGHT SMD LED and PHILPS supplier
- (5) Designates type of Top Cover, C = Top Cover with opening
- (6) Designates type of LED module, K = SMD LED
- (7) Designates C.C.T of LED, C = Cool white, W = Warm white
- (8) Designates voltage, A=120~277V
- (9) Designates wattage of LED lighting, J0 = 100W, H0=80W, F0=60W
- (10) Mounting type, S25 = Bending electrical tube 25°

S90 = Bending electrical tube 90° P90 = Straight electrical tube 90°

WHT = Two position (wall/Pendant) adjustable trunnion, each position with two aiming angles

Parameters:

Electrical parameters

Rated voltage 120 Vac~277 Vac (±10%), 50 & 60 Hz

Rated power 60W, 80W, 100W

Thermal parameters

Temperature class T4(-20°C≤Ta≤+55°C) T5(-20°C≤Ta≤+40°C)

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