



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 UL 18.0044X

Issue No: 0

Certificate history:

[Issue No. 0 \(2018-08-08\)](#)

Status: **Current**

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Date of Issue: **2018-08-08**

Applicant: **Top Hi-Tech Co. Ltd.**
9F, No. 1, Zhongshan Rd.
Tucheng District
New Taipei, 236
Taiwan

Equipment: **LED Surface-mounted Luminaires, L1403AS Series**

Optional accessory:

Type of Protection: **Restricted Breathing "nR", Dust Protection by Enclosure "tb"**

Marking:

Ex nR IIC T5 Gc

Ex tb IIIC T100°C Db

-25°C ≤ Ta ≤ +55°C

*Approved for issue on behalf of the IECEx
Certification Body:*

Erin LaRocco

Position:

Staff Engineer

*Signature:
(for printed version)*

Date:

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:

UL LLC
333 Pfingsten Road
Northbrook IL 60062-2096
United States of America





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Manufacturer: **Top Hi-Tech Co. Ltd.**
9F, No. 1, Zhongshan Rd.
Tucheng District
New Taipei, 236
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 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-15 : 2010 Edition:4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
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:

[US/UL/ExTR18.0052/00](#)

Quality Assessment Report:

[DE/TUR/QAR13.0016/02](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

L1403AS series of luminaires are composed of Tank, LED Module, PC Cover Gasket, PC (Plastic) Cover and AL Cover to form as a LED compartment at luminaire bottom; the Tank top also incorporates a Top Cover, O-ring for Cable Gland assembly. The constructions of all Tank, Gasket, O-ring and Cable Gland assemblies are evaluated for "nR" and "tb" protection. All Tank assemblies including AL Cover and Top Cover are die-cast aluminum alloy, the PC Cover as the optic part is a plastic material and secured between Tank and AL cover; all Cable Gland assemblies are stainless steel with the O-ring and Sealing Ring secured inside to form as the protection. The equipment is LED (light emitting diode) luminaire intended for surface trunnion (wall and hanging mounting), stanchion, and pendant-mounted installation.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The luminaire shall not be opened.
- Potential electrostatic charging hazard – See instructions.
- The luminaire does not have a test port fitted.



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Additional information:

Annex:

[Annex to IECEX UL 18.0044X Issue 0.pdf](#)



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TYPE DESIGNATION

Nomenclature for Luminaires, L1403AS Series:

The complete luminaire catalog number example is as follows:

Model	THT	H	1403	Z	C	K	C	2	I5
	1	2	3	4	5	6	7	8	9

- 1 – Designates basic series. THT – Basic series for all luminaires.
- 2 – Designates type of luminaires. H – HazLoc LED lighting.
- 3 – Designates model name. 1403 – Model L1403AS series.
- 4 – Designates internal control code. Z – For all luminaires.
- 5 – Designates type of top Cover. C – Top Cover with opening.
- 6 – Designates type of LED module. K – SMD type LED.
- 7 – Designates CCT (Correlated Color Temperature) of LED. C – Cool white; W – Warm white.
- 8 – Designates voltage of LED module. 1 – 110Vac; 2 – 220Vac; 9 – 277Vac.
- 9 – Designates wattage of LED luminaires. F5 – 65W; G5 – 75W; H0 – 80W; I5 – 95W.

PARAMETERS RELATING TO THE SAFETY

THTH1403ZCK*1F5 - 110 Vac, 50/60 Hz, 65 W;
THTH1403ZCK*1G5 - 110 Vac, 50/60 Hz, 75 W;
THTH1403ZCK*1H0 - 110 Vac, 50/60 Hz, 80 W;
THTH1403ZCK*1I5 - 110 Vac, 50/60 Hz, 95 W;
THTH1403ZCK*2F5 - 220 Vac, 50/60 Hz, 65 W;
THTH1403ZCK*2G5 - 220 Vac, 50/60 Hz, 75 W;
THTH1403ZCK*2H0 - 220 Vac, 50/60 Hz, 80 W;
THTH1403ZCK*2I5 - 220 Vac, 50/60 Hz, 95 W;
THTH1403ZCK*9F5 - 277 Vac, 50/60 Hz, 65 W;
THTH1403ZCK*9G5 - 277 Vac, 50/60 Hz, 75 W;
THTH1403ZCK*9H0 - 277 Vac, 50/60 Hz, 80 W;
THTH1403ZCK*9I5 - 277 Vac, 50/60 Hz, 95 W.



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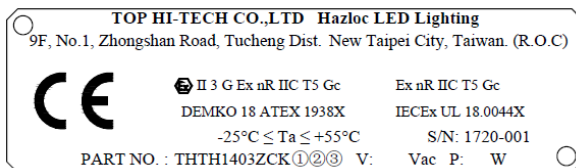
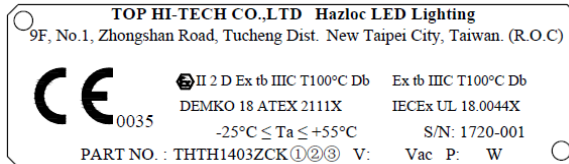
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Models covered are as follows:

Model	Ambient Temperature range	Gas Temperature Code	Dust Temperature Rating
THTH1403ZCK*1F5	-25°C to +55°C	T5	T100°C
THTH1403ZCK*1G5	-25°C to +55°C	T5	T100°C
THTH1403ZCK*1H0	-25°C to +55°C	T5	T100°C
THTH1403ZCK*1I5	-25°C to +55°C	T5	T100°C
THTH1403ZCK*2F5	-25°C to +55°C	T5	T100°C
THTH1403ZCK*2G5	-25°C to +55°C	T5	T100°C
THTH1403ZCK*2H0	-25°C to +55°C	T5	T100°C
THTH1403ZCK*2I5	-25°C to +55°C	T5	T100°C
THTH1403ZCK*9F5	-25°C to +55°C	T5	T100°C
THTH1403ZCK*9G5	-25°C to +55°C	T5	T100°C
THTH1403ZCK*9H0	-25°C to +55°C	T5	T100°C
THTH1403ZCK*9I5	-25°C to +55°C	T5	T100°C

MARKING

Marking has to be readable and indelible; it has to include the following indications:



Model Code:

THTH1403ZCK①②③

①:C=Cool White, W=Warm White

②:1=110Vac, 2=220Vac, 9=277Vac

③:F5 = 65W, G5=75W, H0=80W, I5=95W



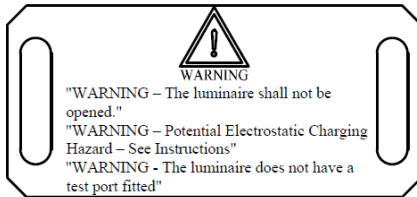
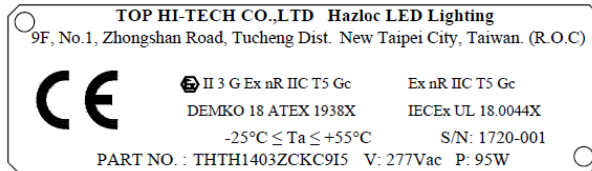
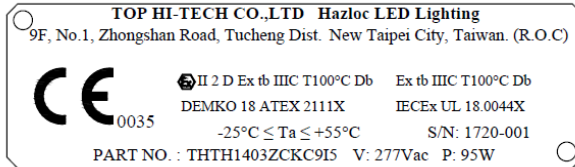
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Example



WARNINGS :

- The luminaire shall not be opened.
- Potential electrostatic charging hazard – See instructions.
- The luminaire does not have a test port fitted.

ROUTINE EXAMINATIONS AND TESTS

Routine restricted breathing testing is required according to Cl. 23.2.3.2.1.2 of IEC 60079-15.