

EU-TYPE EXAMINATION CERTIFICATE



[1]

[2]

**Equipment or Protective System intended for use
in Potentially Explosive Atmospheres
Directive 2014/34/EU**

[3]

EU-Type Examination Certificate Number: **DEMKO 18 ATEX 2106X Rev. 0**

[4]

Product: **LED Luminaires, Models L1511 Series**

[5]

Manufacturer: **Top Hi-Tech Co., Ltd.**

[6]

Address: **9F, No. 1, Zhongshan Rd, Tucheng Dist, New Taipei City 236, Taiwan (R.O.C)**

[7]

This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

[8]

UL International Demko A/S, notified body number 0539 in accordance with Article 17 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in confidential report no. **4788198519.1.1**

[9]

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012+A11:2013

EN 60079-31:2014

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to special conditions for safe use specified in the schedule to this certificate.

[11] This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by the certificate.

[12] The marking of the product shall include the following:

II 2 D Ex tb IIIC T100°C Db

Certification Manager

Jan-Erik Storgaard

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2018-08-08

Notified Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
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[13]

Schedule

[14]

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[15] Description of Product:
The Model L1511 Series of LED luminaires is suitable for use in hazardous location classified Zone 21. This luminaire consists of two interconnecting "tb" chambers: one is the top cover for wiring connection to cable gland, the other one is the LED array chamber.

Nomenclature for Luminaires:

The complete luminaire catalogue number example is as follows:

Cat. No.	THT	H	1511	A	B	K	C	9	I5
	1	2	3	4	5	6	7	8	9

1 – Brand name
THT = Top Hi-Tech Co., Ltd.

2 – Category of product
H = HazLoc LED lighting

3 – Model name
1511 = Model L1511 series

4 – Designates type of PC Cover
A = Clean type

5 – Designates type of Top Cover
B = Short type

6 – Designates type of LED module
K = SMD type

7 – Designates CCT of LED
C = Cool white
W = Warm white

8 – Designates voltage
1 = 110 Vac
2 = 220 Vac
9 = 277 Vac

9 – Designates wattage of LED lighting
F5 = 65 W
G5 = 75 W
I5 = 95 W

Models covered are as follows:

Model	Ambient Temperature range	Gas Temperature Code	Dust Temperature Rating
THTH1511ABK*1F5	-20°C to +55°C	T5	T100°C
THTH1511ABK*1G5	-20°C to +55°C	T5	T100°C
THTH1511ABK*1I5	-20°C to +55°C	T5	T100°C
THTH1511ABK*2F5	-20°C to +55°C	T5	T100°C
THTH1511ABK*2G5	-20°C to +55°C	T5	T100°C
THTH1511ABK*2I5	-20°C to +55°C	T5	T100°C
THTH1511ABK*9F5	-20°C to +55°C	T5	T100°C
THTH1511ABK*9G5	-20°C to +55°C	T5	T100°C
THTH1511ABK*9I5	-20°C to +55°C	T5	T100°C

The optical radiation output of the product with respect to explosion protection, according to Annex II clause 1.3.1 of the Directive 2014/34/EU is not covered in this certificate.

Temperature range:

The ambient temperature range is $-20^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$.

[13]

Schedule

[14]

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Electrical rating

THTH1511ABK*1F5 – 110 Vac, 50/60 Hz, 65 W
THTH1511ABK*1G5 – 110 Vac, 50/60 Hz, 75 W
THTH1511ABK*1I5 – 110 Vac, 50/60 Hz, 95 W
THTH1511ABK*2F5 – 220 Vac, 50/60 Hz, 65 W
THTH1511ABK*2G5 – 220 Vac, 50/60 Hz, 75 W
THTH1511ABK*2I5 – 220 Vac, 50/60 Hz, 95 W
THTH1511ABK*9F5 – 277 Vac, 50/60 Hz, 65 W
THTH1511ABK*9G5 – 277 Vac, 50/60 Hz, 75 W
THTH1511ABK*9I5 – 277 Vac, 50/60 Hz, 95 W

Routine tests:

Routine restricted breathing testing according to clause 23.2.3.2.1.2 of EN 60079-15 is required.

[16]

Descriptive Documents

The scheduled drawings are listed in the report no. provided under item no. [8] on page 1 of this EU-Type Examination Certificate.

[17]

Special Conditions of Use:

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

[18]

Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

Additional information

The Models L1511 series has in addition passed the tests for Ingress Protection to IP67 in accordance with EN60529:1991+A1:2000+A2:2013.

The trademark



will be used as the company identifier on the marking label.