

TYPE EXAMINATION CERTIFICATE



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

- [3] Type Examination Certificate Number: **UL 22 ATEX 2666X Rev. 0**
- [4] Product: **LED Luminaires, Models L2106 Series – Models THTH2106D and THTH2106C Series**
- [5] Manufacturer: **Top Hi-Tech Co., Ltd.**
- [6] Address: **9F, No. 1, Zhongshan Rd., Tucheng District, New Taipei City 236, Taiwan (R.O.C)**
- [7] This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] UL International Demko A/S certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.
- The examination and test results are recorded in confidential report no. **US/UL/ExTR22.0019/00.**
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- EN IEC 60079-0:2018** **EN IEC 60079-15: 2019**
- except in respect of those requirements listed at item 18 of the Schedule.
- [10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.
- [11] This Type examination certificate relates only to the design of the specified product, and not to specific items of product subsequently manufactured.
- [12] The marking of the product shall include the following:

 **II 3 G** **Ex nR IIC T6 Gc**

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: 2022-05-27

Certification Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
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Description of Product:

The Model L2106 Series of LED luminaires is suitable for use in hazardous location classified as Zone 2. This luminaire consists of "nR" LED array chamber and/or sensor chamber.

Nomenclature for Luminaires:

The complete luminaire catalogue number example is as follows:

Cat. No.	THT	H	2106	D	D	W	H	C6
	1	2	3	4	5	6	7	8

1 – Brand name

THT = Top Hi-Tech Co., Ltd.

2 – Category of product

H = HazLoc LED luminaire

3 – Model name

2106 = Model L2106 Series

4 – Designates length of luminaires

D = 4ft length (For 36W and 40W only)

C = 2ft length (For 18W and 20W only)

5 – Designates type of top cover

D = Top Cover without opening

6 – Designates CCT of LED

W = Warm white (For 18W and 36W only)

N = Natural white (For 18W and 36W only)

D = Daylight (For 18W and 36W only)

C = Cool white (For 18W and 36W only)

Y = Yellow (For 20W and 40W only)

7 – Designates voltage of luminaire

H = 100~277 Vac

8 – Designates wattage of luminaire

C6 = 36W (For 4ft length only)

A8 = 18W (For 2ft length only)

D0 = 40W (For 4ft length and yellow CCT only)

B0 = 20W (For 2ft length and yellow CCT only)

Models covered are as follows:

Models	Ambient Temperature Range	'nR' Temperature Code
THTH2106DDxHC6	-20°C to +40°C	T6
THTH2106DDYHD0	-20°C to +40°C	T6
THTH2106CDxHA8	-20°C to +40°C	T6
THTH2106CDYHB0	-20°C to +40°C	T6
x can be W, N, D or 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 covered in this certificate based on Exception 2) to the scope of EN 60079-28:2015.

Electrical data:

Models	Voltage (Vac)	Frequency (Hz)	Wattage (W)
THTH2106DDxHC6	100~277	50/60	36
THTH2106DDYHD0	100~277	50/60	40
THTH2106CDxHA8	100~277	50/60	18
THTH2106CDYHB0	100~277	50/60	20
x can be W, N, D or C			

Routine tests:

Routine dielectric strength testing according to clause 12.1 of EN 60079-15 is required.

Routine restricted breathing testing according to clause 12.2.2.1.2 of EN 60079-15 is required.

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Descriptive Documents

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



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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.
- The gasket not to be replaced in the field.

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Essential Health and Safety Requirements

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

Additional information

The Models L2106 Series has in addition passed the tests for Ingress Protection to IP67 in accordance with EN60529:1991+A1:2000+A2:2013.

The trademark **THT-EX** or **THT-EX** will be used as the company identifier on the marking label.