

(1) EU-TYPE EXAMINATION CERTIFICATE



- (2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere - **Directive 2014/34/EU**
- (3) EU-Type Examination Certificate Number

TÜV 20 ATEX 8533 X

Issue: 00

- (4) Equipment: **LED Luminaires, Model L1815 Series**
- (5) Manufacturer: **TOP HI-TECH CO., LTD.**
- (6) Address: **9F., No.1, Zhongshan Rd., Tucheng Dist., New Taipei City 23680, Taiwan**

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

(8) The TÜV Rheinland Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 21 of the Council Directive 2014/34/EU of 26th February 2014, certifies this product which has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmosphere, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report GC/Ex8533.00/20

(9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

EN 60079-0:2018

EN 60079-1:2014

EN 60079-31:2014

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment 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 specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.

(12) The marking of the equipment shall include the following:



II 2 G Ex db IIC T6...T5 Gb

II 2 D Ex tb IIIC T80°C...T100°C Db

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2020-05-29



This EU-Type Examination Certificate without signature and stamp shall not be valid.

This EU-Type Examination Certificate may be circulated only without alteration. Extracts or alterations are subject to approval by the TÜV Rheinland Industrie Service GmbH TÜV Rheinland Group Am Grauen Stein 51105 Köln
Tel. +49 (0) 221 806-0 Fax. + 49 (0) 221 806 114

(13) Annex

(14) **EU Type Examination Certificate**
TÜV 20 ATEX 8533 X Issue: 00

(15) Description of equipment

15.1 Equipment and type:

LED Luminaires, Model L1815 Series

15.2 Description / Details of Change

General product information

The Model L1815 series of luminaires is suitable for use in hazardous location classified as Zone 1 and Zone 21. This luminaire consists of two interconnecting “db”/”tb” chambers: one is the power box cover for wiring connection to cable gland, the other one is the LED array chamber. The enclosure material is aluminum alloy. The light-transmitting parts are made of tempered flat glass. The gasket is used to maintain the IP rating. The entry for wiring through integral cable gland maintains the degree of protection.

The assessment is also based on the US/UL/ExTR20.0014/00 issued by UL LLC. The lab test data would be used as a part of technical documents during the assessment.

Model designation:

Cat. No.	THT	E	1815	A	C	K	C	H	E5
	1	2	3	4	5	6	7	8	9

- 1 – Brand name, THT = Top Hi-Tech Co., Ltd.
- 2 – Category of product, E = Explosion proof lighting fixtures
- 3 – Model name, 1815 = Model L1815 series
- 4 – Designates type of Driver, A = A type driver (100-277 Vac); B = B type driver (100-277 Vac)
- 5 – Designates type of Power Box Cover, C = Power Box Cover with opening
- 6 – Designates type of LED module, K = SMD type
- 7 – Designates CCT of LED, C = Cool white; W = Warm white
- 8 – Designates voltage, H = 100-277 Vac
- 9 – Designates wattage of LED lighting, E5 = 55 W (for A type driver and B type driver only)

Cat. No.	THT	E	1815	C	C	K	C	H	E5
	1	2	3	4	5	6	7	8	9

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- 4 – Designates type of Driver, C = C type driver (100-277 Vac; 200- 480 Vac)
- 5 – Designates type of Power Box Cover, C = Power Box Cover with opening
- 6 – Designates type of LED module, K = SMD type
- 7 – Designates CCT of LED, C = Cool white; W = Warm white
- 8 – Designates voltage, H = 100-277 Vac; J = 200-480 Vac (for C type driver with 200-480 Vac only)
- 9 – Designates wattage of LED lighting, L0 = 120 W (for C type driver only);
 P0 = 150 W (for C type driver only)

Models covered are as follows:

Model	Ambient Temperature range	Gas Temperature Code	Dust Temperature Rating
THTE1815ACK*HE5	0°C to +40°C	T6	T80°C
THTE1815BCK*HE5	0°C to +40°C	T6	T80°C
THTE1815CCK*HL0	-20°C to +40°C	T5	T100°C
THTE1815CCK*HP0	-20°C to +40°C	T5	T100°C
THTE1815CCK*JL0	-20°C to +40°C	T5	T100°C
THTE1815CCK*JP0	-20°C to +40°C	T5	T100°C

Technical Data

Electrical data

- THTE1815ACK*HE5 – 100-277 Vac, 50/60 Hz, 55 W
- THTE1815BCK*HE5 – 100-277 Vac, 50/60 Hz, 55 W
- THTE1815CCK*HP0 – 100-277 Vac, 50/60 Hz, 150 W
- THTE1815CCK*HL0 – 100-277 Vac, 50/60 Hz, 120 W
- THTE1815CCK*JP0 – 200-480 Vac, 50/60 Hz, 150 W
- THTE1815CCK*JL0 – 200-480 Vac, 50/60 Hz, 120 W

Environmental data

0°C ≤ Ta ≤ +40°C for

Models THTE1815ACK*HE5 and THTE1815BCK*HE5

-20°C ≤ Ta ≤ +40°C for

Models THTE1815CCK*HL0, THTE1815CCK*HP0, THTE1815CCK*HL0 and THTE1815CCK*JP0

IP rating: IP67

(16) Test-Report No. GC/Ex 8533.00/20

(17) Special Conditions for safe use

1. The luminaire shall not be opened.
2. The flameproof joints are not intended to be disassembled or repaired.
3. Potential electrostatic charging hazard – see instructions.

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(18) Basic Safety and Health Requirements

Covered by afore mentioned standard



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