

(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 18 ATEX 8245 X

Issue: 00

- (4) Equipment: **Explosion-Proof Junction Box, type THT2J**2A1901* 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/Ex8245.00/18

(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 60079-7:2015/A1:2018

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 eb IIC T5 Gb
II 2 D Ex tb IIIC T95°C Db
(-40°C ≤ Ta ≤ +55°C)

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2019-07-08



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 18 ATEX 8245 X Issue: 00

(15) Description of equipment

15.1 Equipment and type:

Explosion-Proof Junction Box type THT2J**2A1901*

15.2 Description / Details of Change

General product information

The enclosure of the junction box is made by aluminum alloy. The enclosure complies with IP67/IPX4 in accordance with IEC 60079-0. There are different types of openings on the junction box for the marketing purpose. The main body of the junction box is the same. The cable entries shall be used with certified cable glands or covered by the certified blanking elements. The specification of the cable glands provided by the manufacturer is listed below. It is the optional accessory of the product. Refer to the instructions for the detailed information. The end-user can use the certified components on the market.

Cable entry: M20, M25, NPT 1/2" and NPT 3/4"

Type code:

THT	2	J	N	034	2	A1901	05
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)

- (1) Brand name, THT = Top Hi-Tech Co., Ltd
- (2) Classification of product, 2=Accessory
- (3) Category of Product, J=Junction Box
- (4) Designates Thread type, N=NPT, M=Metric
- (5) Designates Thread size, 012=1/2" , 020=M20, 025=M25, 034=3/4"
- (6) Designates Type of shape, 2= Polygon
- (7) Model name, A1901 = Model A1901 series
- (8) Designates Series number, 01 =single hole, 02 =Double holes, 03 =Triple holes, 04 =Four holes, 05 =Five holes

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Technical Data

Electrical data

Input: Max. 320 Vac, Maximum current 8A, Solid and Fine-stranded. Series connection to the following luminaire: Max. 5A, Max. 200W, Max. 320 Vac.

Environmental data

Ambient temperature range -40°C to +55°C

Temperature class: T5 for gas atmosphere, and T95°C for dust atmosphere

(16) Test-Report No. GC/Ex 8245.00/18

(17) Special Conditions for safe use

1. Electrostatic charging hazard - Clean only with a damp cloth.
2. Only single serial connection to the next Luminaire A is allowed. The distance between Luminaire B is at least 5 meter. The junction box shall be mounted on the Luminaire B though the bottom opening. Maximum allowable rating: Luminaire A: 200W, 5A; Luminaire B: 200W.
3. The maximum surrounding air temperature between the junction box and the bottom luminaire is 78.7°C. It is measured with the maximum rating mentioned above. The cable entry and branching temperature of Luminaire B (200W) are 76.1°C and 84.5°C respectively. If the end-user would use the junction box with the lower rating of Luminaire B, the manufacturer (THT) shall verify the service temperature of the cable entry and branching point. In order to allow the end-user to adopt the regular rating power cable and cable gland.
4. The junction box has been subjected to the thermal endurance to heat at 104.5°C.
5. The internal wiring cable shall be suitable for minimum service temperature 70°C.

(18) Basic Safety and Health Requirements

Covered by afore mentioned standard

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2019-07-08



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