



# 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](http://www.iecex.com)

Certificate No.: IECEx TUR 15.0041 Issue No: 0 Certificate history:  
Issue No. 0 (2017-08-18)

Status: Current Page 1 of 4

Date of Issue: 2017-08-18

Applicant: TOP HI-TECH CO.,LTD.  
5F., No.113, Zhongcheng Rd., Tucheng Dist., New Taipei City 23674  
Taiwan

Equipment: Junction Box  
Optional accessory: THT2J series

Type of Protection: Ex eb / Ex tb

Marking:  
Ex eb IIC T5 Gb  
Ex tb IIIC T100°C Db

Approved for issue on behalf of the IECEx  
Certification Body:

Andreas Maschke

Position:

Deputy Head of Certification Body

Signature:  
(for printed version)

Date:

2017-08-18

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](http://www.iecex.com).

Certificate issued by:

TUV Rheinland Industrie Service GmbH  
Am Grauen Stein  
51105 Cologne  
Germany





# IECEX Certificate of Conformity

Certificate No: IECEX TUR 15.0041 Issue No: 0  
Date of Issue: 2017-08-18 Page 2 of 4  
Manufacturer: TOP HI-TECH CO.,LTD.  
5F., No.113, Zhongcheng Rd., Tucheng Dist., New Taipei City 23674  
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 electrical 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 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2015 Edition:5.0	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

*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:

DE/TUR/EXTR15.0041/00

### Quality Assessment Report:

DE/TUR/QAR13.0016/01



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## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

Junction Box

THT2J series

(for details of type designation see attachment)

**SPECIFIC CONDITIONS OF USE: NO**



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**Additional Information:**

**Annex:**

TUR\_15.0041\_00\_00\_Attachment.pdf



Attachment to Certificate IECEX TUR 15.0041

**Device:** Junction Box  
**Type:** THT2J series

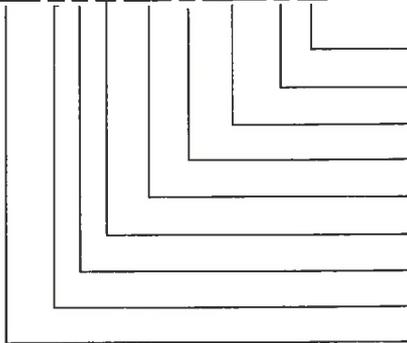
**Manufacturer:** TOP HI-TECH CO.,LTD.

**Address:** 5F., No.113, Zhongcheng Rd., Tucheng Dist., New Taipei City 23674, Taiwan (R.O.C.)

**General product information:**

**Nomenclature:**

**THT 2 J N 034 0 1241 0 00**



00: Series number  
0: Type/Number of hub\*\*\*\*  
1241: Model name  
0: Type of shape\*\*\*  
034: Thread size\*\*  
N: Thread type\*  
J: Category of Product, J=Junction Box  
2: Classification of product: 2=Accessory  
THT: Brand, THT=Top Hi-Tech Co., Ltd.

\* N=NPT, M=Metric

\*\* 012=1/2", 020=M20, 025=M25, 034=3/4", 100=1", 112=1 1/2"

\*\*\* 0=Circular type, 1=Square type

\*\*\*\* There are 16 types of cable entry hole as following table:

Code	0	A	B	C	D	E	F	G
Type	1 Hub	2 Hub	3 Hub	4 Hub	1 Hub	2 Hub	3 Hub	4 Hub
	without bottom hub				with bottom hub			

Refer to the user manual for detailed model drawing.

**Description:**

The enclosure of the junction box is made by aluminium alloy (ADC12). 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 IECEx certified terminal blocks of Wago (IECEX PTB 04.0003U, model 264-130, 264-131, 264-180) are used inside the junction box. The additional Ex certified accessories have been assessed and are listed in the following table. 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.



Attachment to Certificate  
IECEX TUR 15.0041X  
Revision 0

Cable Gland Type	Tube Size	Tube Length	Cable OD
M20 & NPT 1/2"	Ø 8 mm	25.6 mm	Ø 7~8 mm
	Ø 10 mm	25.6 mm	Ø 9~10 mm
	Ø 12 mm	25.6 mm	Ø 11~12 mm
M25 & NPT 3/4"	Ø 8.5 mm	25.6 mm	Ø 7.5~8.5 mm
	Ø 9 mm	25.6 mm	Ø 8~9 mm
	Ø 10 mm	25.6 mm	Ø 9~10 mm
	Ø 12 mm	25.6 mm	Ø 11~12 mm
	Ø 14 mm	25.6 mm	Ø 13~14 mm
	Ø 16 mm	25.6 mm	Ø 15~16 mm

**Rating:**

600 Vac, Maximum current 15A, wire range: 0.2 ... 2.5 mm<sup>2</sup> / 28 ... 12 AWG, Solid and Fine-stranded.

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

Certificate Number	Equipment Description	Ex Marking Codes	IP Rating
IECEX PTB 04.0003U	Terminal block	Ex e I Mb Ex e IIC Gb	-