IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	**IECEx TUR 19.0060X**	Page 1 of 3	Certificate history:
Status:	**Current**	Issue No: 0	
Date of Issue:	2021-04-08		
Applicant:	**TOP HI-TECH CO.,LTD.** 9F., No.1, Zhongshan Rd. Tucheng Dist. New Taipei City 23680 **Taiwan**		
Equipment:	**Explosion Proof Junction Box, Model A1723 Series**		
Optional accessory:			
Type of Protection:	**Equipment protection by flameproof enclosures "db" and Equipment dust ignition protection by enclosure "tb"**		
Marking:	Ex db IIB+H_2 T5 Gb Ex tb IIIC T95°C Db		

Approved for issue on behalf of the IECEx Certification Body: **Dipl.-Ing. He Mei**

Position: **Assigned certifier**

Signature: (for printed version) He Mei

Date: 2021-04-08

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 www.iecex.com or use of this QR Code.

Certificate issued by:

TUV Rheinland Industrie Service GmbH
Am Grauen Stein
51105 Cologne
Germany

TÜVRheinland

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Certificate No.: **IECEx TUR 19.0060X**

Date of issue: 2021-04-08

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Manufacturer: **TOP HI-TECH CO.,LTD.**
9F., No.1, Zhongshan Rd.
Tucheng Dist.
New Taipei City 23680
Taiwan

Additional manufacturing locations:

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 equipment 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 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

This Certificate **does not** indicate compliance with 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/ExTR19.0060/00

Quality Assessment Report:

DE/TUR/QAR13.0016/03

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The Model A1723 series of junction boxes is suitable for use in hazardous location classified as Zone 1, Zone 2, Zone 21 and Zone 22. This junction box consists of single "db"/"tb" enclosure. The internal geometry is simple in rectangular shape.The enclosure material is aluminum alloy. The gasket is used to maintain the IP rating. The entry for wiring through integral cable gland maintains the degree of protection.

The end-user could choose the size, number, location of openings based on the user manual information.The available size are M16, M20, M25, M43, M40, M50, M63, NPT 3/8", NPT 1/2", NPT 3/4".

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Electrostatic charging hazard - Clean only with a damp cloth.
2. Use fasteners with yield stress ≥ 328 MPa.
3. Each threaded opening shall have no more than one thread adapter when an adapter is used. A blanking element shall not be used with an adapter.

Annex:

DE-IECEx_TUR_19.0060X_00_Attachment.pdf

Attachment to Certificate IECEx TUR 19.0060X

Device: **Explosion-Proof Junction Box**
Model: A1723 Series

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

Address: **9F., No.1, Zhongshan Rd.,Tucheng Dist.,New Taipei City 23680, Taiwan**

General product information:

Description

The Model A1723 series of junction boxes is suitable for use in hazardous location classified as Zone 1, Zone 2, Zone 21 and Zone 22. This junction box consists of single "db"/"tb" enclosure. The internal geometry is simple in rectangular shape. The enclosure material is aluminum alloy. The gasket is used to maintain the IP rating. The entry for wiring through integral cable gland maintains the degree of protection.The end-user could choose the size, number, location of openings based on the user manual information.The available size are M16, M20, M25, M43, M40, M50, M63, NPT 3/8", NPT 1/2", NPT 3/4".

Model designation:

Standard type

THT	J	1723	0	D15	01	0	0	0	0
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)

(1) Brand name, THT- = Top Hi-Tech Co., Ltd
(2) Category of product, J = Explosion proof Junction Box
(3) Model name, 1723= Model A1723 series
(4) Sub-series
(5) Terminal Type:

D series	W series
D15=DKB150	WA0=785-601
D10=DKB100	W16=2016-1201
D06=DKB60	W10=2010-1201
D03=DKB30	W06=2006-1201
D20=DKB20	W04=2004-1201

(6) Quantity of Terminal, 01=1Pcs,10=10Pcs
(7) Thread of side A
(8) Thread of side B
(9) Thread of side C
(10) Thread of side D

Customize

THT	J	1723	XXXXXXXXXX
(1)	(2)	(3)	(4)

(1) Brand name, THT- = Top Hi-Tech Co., Ltd
(2) Category of product, J = Explosion proof Junction Box
(3) Model name, 1723= Model A1723 series
(4) Variant number

For more information, refer to Ex instruction.

Electrical data

Terminal Blocks Specification (Table 3.)					
Series	Terminal type	Electrical data	Max Quantity	The cross sectional area of wire	Strip Length
D15 (DKB150)	Screw type	1000V / 150A	6	10.0~70.0mm²	N/A
D10 (DKB100)		630V / 120A	5	10.0~25.0mm²(Bare wire) 10.0~50.0mm²	N/A
D06 (DKB60)		630V / 76A	9	0.75~16.0mm²	N/A
D03 (DKB30)		800V / 25A	(One row)8 (Two row)24	0.34~4.0mm²	N/A
D02 (DKB20)		800V / 20A	(One row)10 (Two row)20	0.34~2.5mm²	N/A
WA0 (785-601)	Cage Clamp type	1000V / 100A	10	6~35mm²	23mm
W16 (2016-1201)		800V / 50A	14	Solid conductor :0.5~16mm² Solid conductor, push-in termination :6~16mm² Fine-stranded conductor :0.5~25mm²	18~20mm
W10 (2010-1201)		800V / 40A	14	Solid conductor :0.5~16mm² Solid conductor, push-in termination :4~16mm² Fine-stranded conductor :0.5~16mm²	17~19mm
W06 (2006-1201)		800V / 30A	18	Solid conductor :0.5~10mm² Solid conductor, push-in termination :2.5~10mm² Fine-stranded conductor :0.5~10mm²	13~15mm
W04 (2004-1201)		800V / 20A	(One row)20 (Two row)40	Solid conductor :0.5~6mm² Solid conductor, push-in termination :1~6mm² Fine-stranded conductor :0.5~6mm²	11~13mm

Environmental data

Ta: -20°C ≤ Ta ≤ +50°C
IP rating: IP64/IP67