

CERTIFICATE



[1] **EU-TYPE EXAMINATION CERTIFICATE**

[2] **Equipment or Protective System intended for use
in potentially explosive atmospheres
Directive 2014/34/EU**

[3] EU-Type Examination Certificate number:

TÜV IT 17 ATEX 054 X

[4] Equipment or Protective System: Flameproof Junction Box
Type: SXTB-** Series

[5] Manufacturer: Shimada Electric Co., Ltd.

[6] Address: 2-29-6, Nakaikegami Ota-ku, Tokyo, 146-0081
Japan

[7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] TÜV Italia, notified body no. 0948 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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 the Directive.

The examination and test results are recorded in confidential report no. R 17 EX 040

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0: 2012+A11:2013 EN 60079-1: 2014

[10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system 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 construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[12] The marking of the product shall include the following:



II 2G Ex db IIC T6 Gb

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Issue date: 21st May 2018



PRD N° 081B

Membro degli Accordi di Mutuo Riconoscimento
EA, IAF e ILAC
Signatory of EA, IAF and ILAC Mutual
Recognition Agreements



**TÜV Italia S.r.l.
Notified Body N° 0948**

Alberto Carelli
Alberto Carelli

**Industry Service - Real Estate & Infrastructure
Managing Director**

TÜV Italia has been authorized by Italian government to operate as notified body for the certification of equipment or protective system intended for use in potentially explosive atmospheres. This document is not valid without official signature and logo. The internal reference code is 722146541

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SCHEDULE

[14]

**EU-TYPE EXAMINATION CERTIFICATE
No. TÜV IT 17 ATEX 054 X**

Certificate History

Revision:	Description:	Report no:	Issue Date:
-	First Emission	R 17 EX 040	21.05.2018

[15] **Description of equipment**

The Flameproof Junction Box of the type series SXTB-04 and SXTB-06 consists of an aluminium body and an aluminium cover. The difference between SXTB-04 and SXTB-06 are different sizes of boxes (See User manual). The cover is fastened on the body with bolts. The Flameproof Junction Box has Metric threaded or NPT threaded entries. Male terminal and female terminal blocks are mated in the enclosure. The Flameproof Junction Box is intended for use in potentially explosive atmosphere in Zone 1 and Zone 2.

There are two types which are as follow:

1) Type SXTB-04:

Cable cross section(mm ²)	2.5	4	6N	
Terminal rate cross section(mm ²)	2.5	4	6	
Terminal block model	SAK2.5/ UK2.5	SAK4/ UK5N	SAK6N/ UK6N	
Rated Voltage (V)	550	550	550	
Minimum tightening torque of terminal screws (Nm)	0.4	0.5	0.8	
Number of terminals				
Current A	16	4	-	-
	20	-	4	-
	25	-	-	4
Thread size for entries	M16×1.5	M20×1.5	M25×1.5	-
	½ NPT	¾ NPT	1 NPT	-
Over dimension (mm)	130×130×88			

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2) Type SXTB-06:

Cable cross section(mm2)	2.5	4	6N	10
Terminal rate cross section(mm2)	2.5	4	6	10
Terminal block model	SAK2.5/ UK2.5	SAK4/ UK5	SAK6N/ UK6N	SAK10/ UK10N
Rated Voltage (V)	550	550	550	550
Minimum tightening torque of terminal screws (Nm)	0.4	0.5	0.8	2.0
Number of terminals				
Current A	16	8	-	-
	20	-	8	-
	25	-	-	6
	35	-	-	4
Thread size for entries	M16×1.5	M20×1.5	M25×1.5	M32×1.5
	½ NPT	¾ NPT	1 NPT	-
Over dimension (mm)	165×165×89			

Rated characteristics

Ambient Temperature (Ta)	-20°C ≤ Ta ≤ +40°C
Protection Degree	IP66 (according EN 60529)

Warning label

After de-energizing, delay 10 minutes before opening.

[16] **Report no. R 17 EX 040**

Routine tests

N/A

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[14]

**EU-TYPE EXAMINATION CERTIFICATE
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[17] **Special conditions for safe use**

1. The equipment shall be installed according to the instruction manual provided by the manufacturer.
2. Use separated ATEX 2014/34/EU Ex db certified cable glands/adaptors to comply with the standards requirements and to maintain the minimum ingress protection rating IP66.
3. Contact the original manufacturer for information on the dimensions of the flameproof joints in case of repair and maintenance (See EN 60079-19).
4. Use fasteners with yield stress not less than 450MPa, A2-70.

[18] **Essential Health and Safety Requirements**

Assured by compliance with the standards set out in the [9].

[19] **Drawings and Documents**

Listed documents (prot. 722146451_3)

Title:	Description:	Pages:	Rev:	Date:
AA30538-A1-A5	FLAMEPROOF TYPE JUNCTION BOX	5	1	2018-04-02
AA30539-A1-A3	FLAMEPROOF TYPE JUNCTION BOX	3	1	2018-04-02
TS10150E	SXTB-04-06 Operating instructions	4	05	2018-05-09
SXTB-04-06 Material Report	Aluminium casting material report	1	0	2017-06-01
SXTB-NBR	O-ring material report	1	0	2018-04-18

One copy of all documents is kept in TÜV Italia files.

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