



Italia

# 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 053 X**

[4] Equipment or Protective System: Flameproof Junction Box  
Type: STH-\* 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 039

[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:



This certificate may only be reproduced in its entirety and without any change, schedule included.

Issue date: 24th 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 722146451\_2

page 1 of 4

[13]

**SCHEDULE**



[14]

**EU-TYPE EXAMINATION CERTIFICATE**  
**No. TÜV IT 17 ATEX 053 X**

**Certificate History**

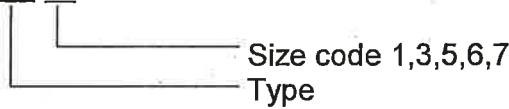
Revision:	Description:	Report no:	Issue Date:
-	First Emission	-	24.05.2018

[15] **Description of equipment**

The Flameproof Junction Box of the type series STH consists of an aluminium enclosure and an aluminium cover. The cover is fixed to the enclosure by hexagonal bolts. The Flameproof Junction Box has Metric threaded or NPT threaded for entries. The Flameproof Junction Box can be horizontal and vertical installation for use in potentially explosive atmosphere in Zone 1 and Zone 2.

**Type**

STH-□



The Flameproof Junction Box size is as follow:

Type	Size(mm)
STH-1	200×150×120
STH-3	300×200×160
STH-5	400×250×205
STH-6	400×350×237
STH-7	530×380×280

**Rated characteristics**

Ambient Temperature (Ta)	-20°C ≤ Ta ≤ +40°C
Protection Degree	IP66 (according EN 60529)
Maximum Voltage	750V
Max Current	100A

**Warning label**

After de-energizing, delay 10 minutes before opening.



Italia

[13]

**SCHEDULE**

[14]

**EU-TYPE EXAMINATION CERTIFICATE  
No. TÜV IT 17 ATEX 053 X**

[16] **Report no.** R 17 EX 039

**Routine tests**

N/A

[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. Property class of A2-70 or higher fasteners should be used.

[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\_2)

Title:	Description:	Pages:	Rev:	Date:
AA30561-A1	FLAMEPROOF TYPE JUNCTION BOX	1	1	2018-05-01
AA30561-A2	FLAMEPROOF TYPE JUNCTION BOX	1	0	2018-04-03
AA30561-A3	FLAMEPROOF TYPE JUNCTION BOX	1	0	2018-04-03
AA30561-A4	FLAMEPROOF TYPE JUNCTION BOX	1	1	2018-05-01
AA30561-A5	FLAMEPROOF TYPE JUNCTION BOX	1	0	2018-04-03
TS10149E	STH Operating instructions	8	03	2018-05-09
Material Report	Aluminium casting report	1	0	2017-06-01
NBR	O-ring material report	1	0	2018-04-18
Nameplate Material Report	Plate material laboratory report note	1	0	2018-03-21
Double face tape MSDS	Material safety data sheet (MSDS)	2	0	2001-03-01

[13]

**SCHEDULE**



[14]

**EU-TYPE EXAMINATION CERTIFICATE  
No. TÜV IT 17 ATEX 053 X**

AA30562-A1	FLAMEPROOF TYPE JUNCTION BOX	1	1	2018-05-01
AA30562-A2	FLAMEPROOF TYPE JUNCTION BOX	1	0	2018-04-03
AA30562-A3	FLAMEPROOF TYPE JUNCTION BOX	1	0	2018-04-03
AA30562-A4	FLAMEPROOF TYPE JUNCTION BOX	1	1	2018-05-01
AA30563-A1	FLAMEPROOF TYPE JUNCTION BOX	1	1	2018-05-01
AA30563-A2	FLAMEPROOF TYPE JUNCTION BOX	1	0	2018-04-03
AA30563-A3	FLAMEPROOF TYPE JUNCTION BOX	1	0	2018-04-03
AA30563-A4	FLAMEPROOF TYPE JUNCTION BOX	1	1	2018-05-01
AA30564-A1	FLAMEPROOF TYPE JUNCTION BOX	1	1	2018-05-01
AA30564-A2	FLAMEPROOF TYPE JUNCTION BOX	1	0	2018-04-03
AA30564-A3	FLAMEPROOF TYPE JUNCTION BOX	1	0	2018-04-03
AA30564-A4	FLAMEPROOF TYPE JUNCTION BOX	1	1	2018-05-01
AA30565-A1	FLAMEPROOF TYPE JUNCTION BOX	1	1	2018-05-01
AA30565-A2	FLAMEPROOF TYPE JUNCTION BOX	1	0	2018-04-03
AA30565-A3	FLAMEPROOF TYPE JUNCTION BOX	1	0	2018-04-03
AA30565-A4	FLAMEPROOF TYPE JUNCTION BOX	1	1	2018-05-01

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