



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

Certificate No.: **IECEX EUT 18.0007X** Page 1 of 4 [Certificate history:](#)  
Issue 0 (2018-05-25)

Status: **Current** Issue No: 1

Date of Issue: 2022-04-28

Applicant: **Thermostick Elettrotecnica S.r.l.**  
Via Sentirone, 10 20037 Paderno Dugnano (MI)  
**Italy**

Equipment: **Cable Turnbuckle TPS 001X**

Optional accessory:

Type of Protection: **Intrinsic safety "i"**

Marking: Ex ia IIC T6 Ga/Gb  
(Applies for  $-40^{\circ}\text{C} \leq T_{amb} \leq +40^{\circ}\text{C}$ )

Ex ia IIC T4 Ga/Gb  
(Applies for  $-40^{\circ}\text{C} \leq T_{amb} \leq +60^{\circ}\text{C}$ )

Approved for issue on behalf of the IECEx  
Certification Body:

**Dionisio Bucchieri**

Position:

**Head of IECEx Certification Body**

Signature:  
(for printed version)

Date:  
(for printed version)

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Italy

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Manufacturer: **Thermostick Elettrotecnica S.r.l.**  
Via Sentirone, 10 20037 Paderno Dugnano (MI)  
**Italy**

Manufacturing locations: **Thermostick Elettrotecnica S.r.l.**  
Via Sentirone, 10 20037 Paderno  
Dugnano (MI)  
**Italy**

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 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

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:

[IT/EUT/ExTR18.0006/01](#)

Quality Assessment Report:

[NO/PRE/QAR18.0010/02](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The cable turnbuckle TPS 001X consists in a stainless steel metal carpentry (AISI 304 or AISI 316 L material) including a cable positioned on a self-rewinding wheel. This equipment is used to connect devices subjected to variable distance, ensuring that the cable used for the connection remains tensed. Inside the equipment there is a rotating contact mechanism that ensures electrical continuity between the extensible cable and the support terminal strip. A crankcase with a steel spring rewires the cable.

On the equipment surface is mounted an already certified enclosure in glass fibre reinforced polyester or steel material (complying with increased safety or intrinsic safety type of protection); the enclosure includes four terminals having 2.5 mm<sup>2</sup> cross section used for electrical connection of two independent circuits.

The cable turnbuckle can be installed horizontally or vertically, through to the fixing holes on both sides of the bracket. It is also equipped with a removable rain cover with rubber gasket for the sliding cable.

The cable is suitable to be connected to devices (such as junction boxes and heat-sensitive cables) in Zone 0 while the cable turnbuckle can be installed in Zone 1.

## Safety related electrical parameters:

The equipment can be powered only by means of certified intrinsically safe barriers; the maximum input safety electrical parameters are reported below:

U <sub>i</sub>	I <sub>i</sub>	P <sub>i</sub>
30 V	215 mA	1.2 W

## Warning label

Warning – Do not open when energized

Warning – Potentially electrostatic charging hazard – See Instruction

## Routine tests

None.

## SPECIFIC CONDITIONS OF USE: YES as shown below:

-The EPL Ga refers to the heat-sensitive cables interface while the cable turnbuckle is suitable to be installed in hazardous areas requiring EPL Gb.

- Electrostatic charging hazard – see instruction.



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

- The equipment has been assessed according to the standard IEC 60079-0:2017.
- Specific conditions of use have been added.