



# 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 EPS 15.0083X** Page 1 of 4 Certificate history:  
Status: **Current** Issue No: 1 Issue 0 (2016-02-01)  
Date of Issue: **2023-08-30**  
Applicant: **pi safety components GmbH & Co. KG**  
Muehlenweg 2  
Teuschnitz 96358  
Germany  
Equipment: **SW.Ex Relay Switch and IR.Ex Sensors**  
Optional accessory:  
Type of Protection: **eb mb ib [ia] tb ia**  
Marking: **Ex eb mb ib [ia Ga] IIC T4 Gb (SW.Ex)**  
**Ex tb [ia Da] IIIC T130°C Db (SW.Ex)**  
**Ex ia IIC T6...T1 Ga/Gb (IR.Ex)**  
**Ex ia IIIC T75°C...T145°C Db (IR.Ex)**

Approved for issue on behalf of the IECEx  
Certification Body:

Position:

Signature:  
(for printed version)

Date:  
(for printed version)



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](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**Bureau Veritas Consumer Products Services Germany GmbH**  
Businesspark A96  
86842 Türkheim  
Germany





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Date of issue: 2023-08-30

Issue No: 1

Manufacturer: **pi safety components GmbH & Co. KG**  
Muehlenweg 2  
Teuschnitz 96358  
Germany

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 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0
- IEC 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"  
Edition:4.1
- IEC 60079-26:2021 Explosive atmospheres - Part 26: Equipment with Separation Elements or combined Levels of Protection  
Edition:4.0
- IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2
- IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
Edition:5.1

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/EPS/ExTR15.0081/01

Quality Assessment Report:

DE/EPS/QAR14.0005/10



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The relay switch SW.Ex and the associated sensors type IR.Ex are used for acquisition and analysis of different measurements, e.g. temperature, humidity and difference pressure. The integrated terminal box protected by kind of ignition protection Ex e provides a direct electrical connection in explosive areas.

The relay switch SW.Ex shall only be installed and operated within zones 1/21 (EPL Gb and Db) and 2/22 (EPL Gc and Dc). The sensors are protected by kind of ignition Ex ia and can be installed and used at the border of areas requiring EPL Ga/Gb and in areas requiring EPL Db.

Rated data: see certificate attachment.

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

The relay switch SW.Ex shall be protected from excessive UV light exposure.

The relay switch SW.Ex shall be protected from mechanical impact.

After installing the sensors in areas requiring Ga/Gb the operator shall verify the leak tightness of the facility to achieve a zone separation.

The enclosure of the relay switch SW.Ex shall never be opened while circuits are alive.



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

- Update of standards
- Change of manufacturer name
- documental update and alignment of intrinsically safe parameters

### **Annex:**

Petz\_15TH0388\_SW.Ex-IR.Ex\_IECEX EPS 15.0083X\_01\_Attachment.pdf