



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 PTB 17.0002X** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 1 [Issue 0 \(2017-01-20\)](#)
Date of Issue: 2020-07-20
Applicant: **Hans Turck GmbH & Co. KG**
Witzlebenstraße 7
45472 Mülheim
Germany
Equipment: **AC/DC converter type PPSA230EX and type PPSA115EX**
Optional accessory:
Type of Protection: **Increased Safety and Encapsulation**
Marking: Ex eb mb IIC T4
or
Ex eb mb IIC T4 Gb

Approved for issue on behalf of the IECEx
Certification Body:

Dr.-Ing. F. Lienesch

Position:

**Head of Department "Explosion Protection in Sensor Technology
and Instrumentation"**

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 or use of this QR Code.



Certificate issued by:

Physikalisch-Technische Bundesanstalt (PTB)
Bundesallee 100
38116 Braunschweig
Germany





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Date of issue: 2020-07-20

Issue No: 1

Manufacturer: **Hans Turck GmbH & Co. KG**
Witzlebenstraße 7
45472 Mülheim
Germany

Manufacturing locations: **Werner Turck GmbH & Co. KG**
Goethestrasse 7
58553 Halver
Germany

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 60079-0:2011](#) Explosive atmospheres - Part 0: General requirements
Edition:6.0

[IEC 60079-18:2014](#) Explosive atmospheres – Part 18: Equipment protection by encapsulation “m”
Edition:4.0

[IEC 60079-7:2015](#) Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
Edition:5.0

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 Reports:

[DE/PTB/ExTR17.0003/00](#)

[DE/PTB/ExTR17.0003/01](#)

Quality Assessment Reports:

[DE/PTB/QAR06.0012/04](#)

[DE/PTB/QAR06.0013/05](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

See the attachement to this certificate.

SPECIFIC CONDITIONS OF USE: YES as shown below:

See the attachement to this certificate.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Additional manufacturing location (no technical modification)

Annex:

[COCA170002X-01_1.pdf](#)



Applicant: Hans Turck GmbH & Co. KG
Witzlebenstraße 7, 45472 Mülheim, Germany

Electrical Apparatus: AC/DC converter, type PPSA230EX and type PPSA115EX

Description of equipment

The AC/DC converter, type PPSA230EX and type PPSA115EX is used for a 24V supply inside of zone 1. It is intended that the AC/DC converter is plugged and secured onto the ballast module subrack, type MT-PPS. The ballast module subrack, type MT-PPS is separately certified by PTB 16 ATEX 2025 U-A0. The electrical input and output circuit are electrically isolated.

The AC/DC converter, type PPSA230EX and type PPSA115EX basically consists of the transformer, the plug-in device and a rectification assembly. The transformer and the plug-in device are designed to type of protection "Increased safety" e "and the rectification assembly to type of protection" Encapsulation "m".

The permissible ambient temperature range is: -20°C up to +70°C

Electrical Data:

Supply	type of protection Increased Safety Ex eb IIC
Nominal value	115 / 230 VAC, 85VA safety maximum voltage $U_m = 250V$
Output voltage	type of protection Increased Safety Ex eb IIC max. 32 VDC
Nominal output current	2.7 A
Nominal output power	67 W

Special conditions for safe use

The AC/DC converter, type PPSA230EX and type PPSA115EX shall only be operated together with the ballast module subrack, type MT-PPS according to certificate PTB 16 ATEX 2025 U-A0.

For the operation in potentially explosive atmospheres the AC/DC converter, type PPSA230EX and type PPSA115EX and the ballast module subrack, type MT-PPS shall be installed in an appropriate enclosure that is separately certified to type of protection "Increased Safety" e "with a minimum degree of protection of IP54, since the enclosure is not covered by this approval.

The AC/DC converter shall only be plugged or unplugged in a de-energized state.