



1 **UNITED KINGDOM CONFORMITY ASSESSMENT**
UK TYPE EXAMINATION CERTIFICATE
2 **Product or Protective System Intended for use in Potentially Explosive Atmospheres**

UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

3 Type Examination Certificate No.: **TÜV 22 UKEX 7119 X** Issue: **00**
4 Product: **AC/DC Converter, type PPSA230EX and type PPSA 115EX**
5 Manufacturer: **Hans Turck GmbH & Co KG**
6 Address: **Witzlebenstraße 7
45472 Mülheim an der Ruhr, Germany**

7 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 TÜV Rheinland UK Ltd, Approved Body number 2571, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), 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 Schedule 1 of the Regulations.

The examination and test results are recorded in the confidential report 557 / UKEx 7119.00 / 22.

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

EN IEC 60079-0:2018

**EN IEC 60079-7:2015 /
A1:2018**

EN 60079-18:2015 / A1: 2017

Except in respect of those requirements listed at section 18 of the schedule to this certificate.

10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to specific conditions of use specified in the schedule to this certificate.

11 This TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of this product shall include the following:



II 2 G Ex eb mb IIC T4 Gb

This certificate and its schedules may only be reproduced in its entirety and without change.

TÜV Rheinland UK Ltd

Solihull, 2022-11-21


Dipl.-Ing. Klauspeter Graffi

This Type Examination Certificate without signature shall not be valid. Alterations are subject to approval by
TÜV Rheinland UK Ltd, 1011 Stratford Road, Shirley, Solihull, B90 4BN, Tel. +44 (0) 121 7969400
A UKAS accredited certification body, No. 8400

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13 SCHEDULE TO UK TYPE EXAMINATION CERTIFICATE

14 CERTIFICATE NUMBER TÜV 22 UKEX 7119 X

15 Description of Product

AC/DC Converter type PPSA230Ex and PPSA115Ex

General product information

The AC/DC converter, type PPSA230EX and type PPSA 115EX is used for a 24 V 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. The electrical input and output circuit are electrically isolated.

The AC/DC converter, type PPSA230EX and type PPSA 115EX basically consists of the transformer, the plug-in device and a rectification. The transformer and the plug-in device were designed in type of protection "increased safety" e "and the rectification in type of protection" Encapsulation "m".

The permissible range of the ambient temperature is -20 °C up to +70 °C.

With this combination the intrinsically safe field circuits of the respective excom modules may be led into hazardous areas of category 1.

Inside the area of zone 2 the power supply module - as all other modules of the excom fieldbus system - may be plugged or unplugged during operation.

The permissible range of the ambient temperature is -40 °C up to 70 °C.

Technical Data

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

16 Test report No. (associated with this certificate issue): 557 / UKEx 7119.00 / 22

17 Specific Conditions of 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.

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 in the 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.

18 Essential Health and Safety Requirements (Regulations Schedule 1)

In addition to the Essential Health and Safety Requirements covered by the standards listed at item 9, all other requirements are demonstrated in the relevant reports.

19 Drawings and Documents

Reg. no.	Document title:	Document no.:	Rev.:	Date:
1.	Approval documentation PPSA (137 p.)	Approval documentation PPSA signed.pdf	01	21.10.2022