



# 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.:	<b>IECEx PTB 18.0044X</b>	Page 1 of 4	<u>Certificate history:</u>
Status:	<b>Current</b>	Issue No: 1	Issue 0 (2019-12-12)
Date of Issue:	2021-06-01		
Applicant:	<b>Hans Turck GmbH &amp; Co.KG</b> Witzlebenstraße 7 45472 Mülheim Germany		
Equipment:	<b>Power supply module, type PSM24-3G.1</b>		
Optional accessory:			
Type of Protection:	<b>Intrinsic Safety "i", Increased Safety "e", Type of Protection "n"</b>		
Marking:	<b>Ex ec nC ic [ib Gb] IIC T4 Gc</b>		

Approved for issue on behalf of the IECEx  
Certification Body:

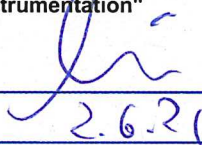
**Dr. F. Lienesch**

Position:

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

Signature:  
(for printed version)

Date:

  
2.6.21

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:

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





# IECEx Certificate of Conformity

Certificate No.: **IECEx PTB 18.0044X**

Page 2 of 4

Date of issue: 2021-06-01

Issue No: 1

Manufacturer: **Hans Turck GmbH**  
Witzlebenstraße 7  
45472 Mülheim an der Ruhr  
Germany

Additional  
manufacturing  
locations: **Werner Turck GmbH & Co. KG**  
Goethestr. 7  
58545 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 60079-0:2017** 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 60079-15:2017** Explosive atmospheres - Part 15: Equipment protection by type of protection "n"  
Edition:5.0

**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/PTB/ExTR18.0043/01

Quality Assessment Report:

DE/PTB/QAR06.0013/06



# IECEx Certificate of Conformity

Certificate No.: **IECEx PTB 18.0044X**

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Date of issue: 2021-06-01

Issue No: 1

**EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

Refer to attachment to the certificate.

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

The equipment must only be installed in an environment with a maximum pollution degree of 2.

When used in zone 2:

- 1) the equipment must be mounted in a separately approved housing according to EN IEC 60079-0 with a degree of protection of at least IP54 according to IEC 60529.
- 2) with its housing must be installed and operated in areas with pollution degree 2 as defined in IEC 60664-1.





# IECEX Certificate of Conformity

Certificate No.: IECEx PTB 18.0044X

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Date of issue: 2021-06-01

Issue No: 1

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

Update to the current version of the standards

In the relay enable function block, the electromechanical device for disconnecting the supply circuit has been changed.  
Replacement of Zener diodes with an equivalent type.

**Annex:**

COCA1844-1.pdf



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Certificate No.:	<b>IECEx PTB 18.0044X</b>	Page 1 of 3	<u>Certificate history:</u>
Status:	<b>Current</b>	Issue No: 0	
Date of Issue:	2019-12-12		
Applicant:	<b>Hans Turck GmbH &amp; Co.KG</b> Witzlebenstraße 7 45472 Mülheim Germany		
Equipment:	<b>Power supply module, type PSM24-3G</b>		
Optional accessory:			
Type of Protection:	<b>Intrinsic Safety "i", Increased Safety "e", Type of Protection "n"</b>		
Marking:	<b>Ex ec nC ic IIC T4 Gc</b>		

Approved for issue on behalf of the IECEx  
Certification Body:

**Dr. F. Lienesch**

Position:

**Head of Department "Explosion Protection in Sensor  
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Signature:  
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Certificate No.: **IECEx PTB 18.0044X**

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Date of issue: 2019-12-12

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Goethestr. 7  
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Edition:6.0

**IEC 60079-15:2017** Explosive atmospheres - Part 15: Equipment protection by type of protection "n"  
Edition:5.0

**IEC 60079-7:2015** Explosive atmospheres – Part 7: Equipment protection by increased safety "e"  
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## TEST & ASSESSMENT REPORTS:

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Test Report:

[DE/PTB/ExTR18.0043/00](#)

Quality Assessment Report:

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



# IECEx Certificate of Conformity

Certificate No.: **IECEx PTB 18.0044X**

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Date of issue: 2019-12-12

Issue No: 0

**EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

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

Refer to attachment to the certificate.

**Annex:**

[CoCA180044X-00.pdf](#)



Applicant: Hans Turck GmbH & CO KG  
Witzlebenstraße 7  
45472 Mülheim an der Ruhr  
Germany

Electrical Apparatus: Power supply module, type PSM24-3G...

#### Description of equipment

The power supply module, type PSM24-3G... is an equipment part of the explosion protected remote I/O- system excom® and it is intended for the application in hazardous areas of zone 2.

The equipment is exclusively operated in combination with the module rack of type MTxx-3G.. certified by IECEx PTB 13.0040U for the application in areas of zone 2.

The power supply module, type PSM24-3G... is designed to types of protection Ex ec IIC, Ex nC and Ex ic IIC. As a central unit it supplies the remote I/O-system excom® with defined power. Up to two Gateways and 24 separately certified excom modules may be connected.

Inside the area of zone 2 the power supply module – as all other modules of the remote I/O-system excom® – may be plugged or unplugged during operation.

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

#### Electrical data

Voltage supply  
(plug connector J1  
pins 1...4 L+, 11...14 L-)

type of protection Ex ec IIC  
 $U_B = 19.2 \dots 32 \text{ V DC}$   
 $U_m = 40 \text{ V}$

PA  
(plug connector J1 pins 21...24)

EMC-relevance, no protective function

System-internal output voltage  
(plug connector J2  
pins 1...4, 7...10)

type of protection Ex ec IIC  
Operational maximum values:  
 $U = 40 \text{ V AC}$   
 $f = 307 \text{ kHz}$   
 $P \leq 65 \text{ W}$

External Clock  
(plug connector J2  
pins 13, 14)

type of protection Intrinsic Safety Ex ic IIC  
system-internal circuit  
without external connection facilities

Fault signal  
(plug connector J2  
pins 15, 16)

type of protection Intrinsic Safety "i"  
system-internal circuit  
without external connection facilities





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Special conditions for safe use

1. The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1.
2. The power supply shall be installed in an enclosure the provides a minimum degree of protection of IP 54 in accordance with IEC 60079-0.