



(1) EC-TYPE-EXAMINATION CERTIFICATE (Translation)

(2) Equipment and Protective Systems Intended for Use in
Potentially Explosive Atmospheres - **Directive 94/9/EC**

(3) EC-type-examination Certificate Number:

PTB 04 ATEX 2057 X



(4) Equipment: Power-supply filter PS-F24Ex/..

(5) Manufacturer: Hans Turck GmbH & Co. KG

(6) Address: Witzlebenstr. 7, 45472 Mülheim an der Ruhr, Germany

(7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report PTB Ex 04-24040.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 50014:1997 + A1 + A2 EN 50017:1998 EN 50019:2000

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-type-examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12) The marking of the equipment shall include the following:

 **II 2 G EEx qe II T4**

Zertifizierungsstelle Explosionsschutz
By order:

Braunschweig, August 27, 2004

(signature)

Dr.-Ing. U. Johannsmeyer
Regierungsdirektor

2 pages, correct and complete as regards content.

By order:

Dr.-Ing. Johannsmeyer
Direktor und Professor

Braunschweig, July 1, 2005



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EC-type-examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.

(13)

SCHEDULE

(14)

EC-TYPE-EXAMINATION CERTIFICATE PTB 04 ATEX 2057 X

(15) Description of equipment

The power-supply filter PS-F24Ex/.. is used to smooth the direct voltage generated by the ballasts of type PPSA... and to compensate line influences for the operation with d.c.-supply. Depending on the module subrack used, two variants, each provided with one or two filter components, are permissible. The connection is carried out via cable, connected to the respective terminal clamps on the module subrack in type of protection "Increased Safety".

Rated voltage (maximum): 35 V DC

Ambient temperature range: -20 °C...+70 °C

(16) Test report PTB Ex 04-24040

(17) Special conditions for safe use

The power-supply filter PS-F24Ex/.., as a discrete assembly, shall only be applied in combination with the complete system on the module subrack, type MT... (PTB 00 ATEX 2194 U).

The power-supply filter PS-F24Ex/.. shall be mounted into a housing providing the minimum degree of protection IP 54.

(18) Essential health and safety requirements

met by compliance with the standards mentioned above

Zertifizierungsstelle Explosionsschutz
By order:

Braunschweig, August 27, 2004

(signature)

Dr.-Ing. U. Johannsmeyer
Regierungsdirektor

1. SUPPLEMENT

according to Directive 94/9/EC Annex III.6

to EC-TYPE-EXAMINATION CERTIFICATE PTB 04 ATEX 2057 X

(Translation)

Equipment: Power-supply filter PS-F24Ex/.

Marking:  II 2 G Ex eb qb IIC T4/ Ex e q IIC T4 Gb

Manufacturer: Hans Turck GmbH & Co. KG

Address: Witzlebenstr. 7, 45472 Mülheim an der Ruhr, Germany

Description of supplements and modifications

The power-supply filter of type PS-F24Ex/. was reviewed according to the state of the standards stated below.

Applied standards

EN 60079-0:2009 EN 60079-5:2007 EN 60079-7:2007

Test report: PTB Ex 11-21282

Zertifizierungssektor Explosionsschutz
On behalf of PTB:

Braunschweig, December 16, 2011

(signature)

Dr.-Ing. U. Johannsmeyer
Direktor und Professor

1 page, correct and complete as regards content.
On behalf of PTB:

Dr.-Ing. U. Johannsmeyer
Direktor und Professor

Braunschweig, July 1, 2014



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2. SUPPLEMENT

according to Directive 94/9/EC Annex III.6

to EC-TYPE-EXAMINATION CERTIFICATE PTB 04 ATEX 2057 X (Translation)

Equipment: Power-supply filter PS-F24Ex/.

Marking:  II 2 G Ex e q IIC T4 Gb or Ex eb qb IIC T4

Manufacturer: Hans Turck GmbH & Co. KG

Address: Witzlebenstr. 7, 45472 Mülheim an der Ruhr, Germany

Description of supplements and modifications

The power-supply filter of type PS-F24Ex/. was reviewed according to the state of the standards stated below.

Applied standards

EN 60079-0:2012 EN 60079-5:2007 EN 60079-7:2007

Test report: PTB Ex 14-23272

Special Conditions:

As a stand-alone unit with respect to safety technology, the power-supply filter of type PS-F24Ex/. is only applicable in combination with the entire system mounted on the module rack MT... .

The power-supply filter of type PS-F24Ex/. shall be mounted into an enclosure that complies with a minimum degree of protection of IP 54.

Zertifizierungssektor Explosionsschutz
On behalf of PTB:

Braunschweig, June 26, 2014


Dr.-Ing. U. Johannsmeyer
Direktor und Professor



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