



(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 98 ATEX 3111 U



(4) Component: Screw-type terminal,
type 210-08-...-..., 220-12-... and 230-12-...-

(5) Manufacturer: Emil A. Peters GmbH & Co. KG

(6) Address: Westfalenstraße 85, D-58636 Iserlohn

(7) This component 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 component 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 98-30025.

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

EN 50 014:1997

EN 50 019:1994

(10) The sign "U" placed behind the certificate number indicates that this certificate should not be confounded with certificates issued for equipment or protective systems. This Component Certificate only serves as a basis for the issuing of certificates for equipment or protective systems.

(11) This EC-type-examination Certificate relates only to the design and construction of the specified component in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this component.

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

II 2 G EEx e II or I M 2 EEx e I

Zertifizierungsstelle Explosionsschutz

By order:

Dr.-Ing. U. Engel
Regierungsdirektor



Braunschweig, December 21, 1998

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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 No. PTB 98 ATEX 3111 U

(15) Description of component

The screw-type terminal, type 210-08-... to 230-12-..., of brass consists of terminal carrier, clamping bolt or threaded pin, hexnut and spring washer, cover plate as well as clamping screws with spring washers. The terminal is fixed with an internal thread to a terminal stud.

The terminal is used to connect copper conductors in terminal compartments of the type of protection increased safety "e".

Technical data

Rated voltage: max. 11.000 V

Type	Rated cross section	Rated current
210/08-f-08 and 210/08-f-10	max. 70 mm ²	max. 180 A
210/08-h-08 and 210/08-h-10	max. 120 mm ²	max. 254 A
220/12-p-10 and 220/12-p-12	max. 120 mm ²	max. 254 A
220/12-h-10 and 220/12-h-12	max. 240 mm ²	max. 394 A
230/12-p-12 and 230/12-p-16	max. 240 mm ²	max. 394 A
230/12-h-12 and 230/12-h-16	max. 300 mm ²	max. 455 A

(16) Report PTB Ex 98-30025 (Composed 4 pages, description and drawings)

The component can be used in both group I and group II as the requirements of the standards are identical for this component.

(17) Special conditions for safe use

Within the scope of the service temperature range, these terminals may be used in electrical apparatus - above all in motor junction boxes - for temperature classes T1 to T6.

When the terminals are installed in a terminal compartment - at least of the degree of protection IP 54 - the requirements according to EN 50 014 (VDE 0170/0171 part 1), sections 14.2 to 14.4 must be met.

Integration into an apparatus and compliance with the clearances and creepage distances as a function of the specified rated voltage are to be evidenced in a separate report.

(18) Essential health and safety requirements

met by compliance with standards

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1st SUPPLEMENT

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

to EC-TYPE-EXAMINATION CERTIFICATE PTB 98 ATEX 3111 U

(Translation)

Equipment: Screw-type terminal, type 210-08-*-*-* , 220-12-*-*-* , 230-12-*-*-*

Marking:  **II 2 G EEx e II, I M 2 EEx e I**

Manufacturer: Emil A. Peters GmbH & Co. KG

Address: Westfalenstraße 85, 58636 Iserlohn, Germany

Description of supplements and modifications

The threaded adapter, type 210-08-*-*-* , 220-12-*-*-* , 230-12-*-*-* , has been re-examined on the basis of standards EN 60079-0:2012 and EN 60079-1:2007.

The marking therefore changes to:

 **II 2 G Ex e IIC Gb and I M 2 Ex e IMb**

Technical data

Rated voltage	max 11,000 V
Number of conductors per terminal point	1 conductor per terminal point

Type	conductor size	rated current (temperature rise max. 40 K)
210-08-f-08* and 210-08-f-10*	max. 70mm ²	max. 180 A
210-08-h-08* and 210-08-h-10*	max. 120mm ²	max. 254 A
220-12-p-10* and 220-12-p-12*	max. 120mm ²	max. 254 A
220-12-h-10 and 220-12-h-12*	max. 240 mm ²	max. 394 A
230-12-p-12* and 230-12-p-16*	max. 240mm ²	max. 394 A
230-12-h-12* and 230-12-h-16*	max. 300mm ²	max. 455 A

Type	Conductor size [mm] f: finely stranded m: multi-core	Stud bolt [mm]
210-08-f-08*	16f - 70f and 25m - 70m	M8
210-08-f-10*	16f - 70f and 25m - 70m	M10
210-08-h-08*	25f - 95f and 35m - 120m	M8
210-08-h-10*	25f - 95f and 35m - 120m	M10
220-12-p-10*	16f - 95f and 25m - 120m	M10
220-12-p-12*	16f - 95f and 25m - 120m	M12
220-12-h-10*	70f - 185f and 95m - 240m	M10
220-12-h-12*	70f - 185f and 95m - 240m	M12
230-12-p-12*	16f - 185f and 25m - 240m	M12
230-12-p-16*	16f - 185f and 25m - 240m	M16
230-12-h-12*	95f - 240f and 120m - 300m	M12
230-12-h-16*	95f - 240f and 120m - 300m	M16

Type code

210-	08-	*-	**	*
1	2	3	4	5

- 1) Type 210, 220 or 230
- 2) Thread of set screw
08 = M8, 12 = M12
- 3) Shape of clamping plate
f = flat
p = prismatic
h = semi-circular
- 4) Thread of bolt
08 = M8, 10 = M10, 12 = M12, 16 = M16
- 5) Type of set screw
- = hexagon set screw
i = Allan set screw

Notes for manufacturing and operation

The adapters must be mounted in an enclosure that meets the requirements of an approved type of protection in accordance with EN 60079-0, section 1, or EN 60079-31.

When installed in an enclosure designed to Intrinsic Safety "e" type of protection in accordance with 60079-7, the clearance and creepage distances specified in table 1 must be complied with. Respecting the use of accessories, the manufacturer's instructions for installation must be considered.

The adapters can be used in both group II and group I, because the requirements of the standard are in this case identical.

The installation of electrical components is subject to re-assessment by a notified testing laboratory.

Applied standards

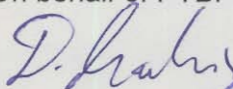
EN 60079-0:2012, EN 60079-7:2007

Test report: PTB Ex 14-13063

Konformitätsbewertungsstelle, Sektor Explosionsschutz

Braunschweig, October 31, 2014

On behalf of PTB:



Dr.-Ing. D. Markus
Oberregierungsrat

