



UNITED KINGDOM CONFORMITY ASSESSMENT

UK TYPE EXAMINATION CERTIFICATE

Component intended for use in a Product or Protective System for use in Potentially Explosive Atmospheres
UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

Certificate Number: **CSAE 22UKEX1100U** Issue: **1**
Product: **Feed-through terminal blocks and protective-conductor terminal blocks, Type PT 4**, PT 4*-PE, PTTB 4**, PTTB 4-PE**
Manufacturer: **PHOENIX CONTACT GmbH & Co. KG**
Address: Flachsmarkstraße 8
Blomberg
North Rhine-Westphalia
D-32825
Germany

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

CSA Group Testing UK Limited, Approved Body number 0518, 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 reports listed in Section 14.2.

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

Except in respect of those requirements listed at Section 16 of the schedule to this certificate. The above standards may not appear on the UKAS Scope of Accreditation, but have been added through flexible scope of accreditation, which is available on request.

The sign "U" placed after the certificate number indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as the basis for certification of an equipment or protective system. Any limitations are listed in Section 15.

This UK 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.

The marking of this product shall be in accordance with Regulation 41 and include the following:



II 2 G
Ex eb IIC Gb

Name: M Halliwell

Title: Senior Director of Operations



Certificate No. **CSAE 22UKEX1100U**
CSA Group Testing UK Ltd., Unit 6 Hawarden Industrial Park, Hawarden, CH5 3US, UK

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13 DESCRIPTION OF PRODUCT

Feed-through terminal blocks, types PT 4** and PTTB 4** consist of an insulating housing (polyamide PA 6.6) in different colours, current bar(s) equipped with springs (screwless-type clamping units) and orange-coloured release lever. The terminal blocks serve to connect copper conductors in terminal compartments designed to Increased Safety "eb" and Protection by Enclosure "ta, tb, tc".

Accessories are end cover plates type D-ST 4***, D-STTB 4 and D-PT 4-***, separating plates type ATP-ST*** and ATP-STTB 4, end supports as well as plug-in bridges type FBS***-6. The terminal blocks are fastened on mounting rails.

Protective conductor terminal blocks, types PT 4*-PE and PTTB 4-PE consists of a green-yellow-coloured insulating housing (polyamide PA 6.6), current bar(s) equipped with springs (screwless-type clamping units), orange-coloured release lever and a grounding foot part. The PE terminal blocks serve to connect copper conductors in terminal compartments designed to Increased Safety "eb" and Protection by Enclosure "ta, tb, tc". Accessories are end cover plates, end supports and plug-in bridges. The terminal blocks are fastened on mounting rails.

Technical Data

Type designation	PT 4**	PT 4- QUATTRO**	PT 4-TWIN**	PTTB 4**	PTTB 4- PV**
Rated Insulation voltage	500 V	500 V	500 V	400 V	400 V
Rated voltage	550 V	550 V	550 V	440 V	440 V
- with jumper FBS...	550 V	550 V	550 V	440 V	440 V
- with skipping jumper	352 V	352 V	352 V	352 V	352 V
- with skipping jumper type PE	352 V	352 V	352 V	352 V	352 V
- with cut to length bridge	220 V	220 V	220 V	220 V	220 V
- with cut to length bridge and cover type D	275 V	275 V	275 V	352 V	352 V
- with cut to length bridge and cover type ATP	550 V	550 V	550 V	440 V	440 V
Rated current (Temperature rise 40 K, cross section 4 mm ²)	26 A	26 A	26 A	23 A	23 A
Rated current (Temperature rise 40 K, cross section 6 mm ²)	30 A	30 A	30 A	27 A	27 A
Rated current					
- with jumper FBS... (Temperature rise 40K, cross section 4 mm ²)	25 A	25 A	25 A	23 A	23 A
- with jumper FBS... (Temperature rise 40K, cross section 6 mm ²)	27 A	27 A	27 A	23 A	23 A
Contact resistance (cross section 4 mm ²)	0.59 mΩ	0.69 mΩ	0.64 mΩ	Lower level 0.67 mΩ Upper level 0.49 mΩ	Lower level 0.67 mΩ Upper level 0.49 mΩ

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Type designation	PT 4**	PT 4- QUATTRO**	PT 4-TWIN**	PTTB 4**	PTTB 4- PV**
Contact resistance (cross section 6 mm ²)	0.54 mΩ	0.66 mΩ	0.60 mΩ	Lower level 0.76 mΩ Upper level 0.60 mΩ	Lower level 0.70 mΩ Upper level 0.60 mΩ
Rated cross section [mm ²] (AWG)	4 (12)	4 (12)	4 (12)	4 (12)	4 (12)
Rated connecting capacity					
- rigid [mm ²] (AWG)	0.2 - 6 (24 - 10)	0.2 - 6 (24 - 10)	0.2 - 6 (24 - 10)	0.2 - 6 (24 - 10)	0.2 - 6 (24 - 10)
- flexible [mm ²] (AWG)	0.2 - 4 (24 - 12)	0.2 - 4 (24 - 12)	0.2 - 4 (24 - 12)	0.2 - 4 (24 - 12)	0.2 - 4 (24 - 12)
Stripping length [mm]	10	10	10	10	10
Assembly	on DIN rails NS35 acc. to EN 60715-TH 35				
Service temperature range [°C]	Service temperature range 1: -60 °C to +85 °C Service temperature range 2: -40 °C to +110 °C The terminal blocks are intended for use in two separate temperature ranges. Service temperature range 1 defines the use of the terminal blocks in extreme cold. Service temperature range 2 defines the use of the terminal blocks in extreme heat.				
** valid for colour variants					

Type designation	PT 4-PE	PT 4-QUATTRO-PE	PT 4-TWIN-PE	PTTB 4-PE
Rated cross section [mm ²] (AWG)	4 (12)	4 (12)	4 (12)	4 (12)
Rated connecting capacity				
- rigid [mm ²] (AWG)	0.2 - 6 (24 - 10)	0.2 - 6 (24 - 10)	0.2 - 6 (24 - 10)	0.2 - 6 (24 - 10)
- flexible [mm ²] (AWG)	0.2 - 4 (24 - 12)	0.2 - 4 (24 - 12)	0.2 - 4 (24 - 12)	0.2 - 4 (24 - 12)
Stripping length [mm]	10	10	10	10
Assembly	on DIN rails NS35 acc. to EN 60715-TH 35			
Service temperature range [°C]	Service temperature range 1: -60 °C to +85 °C Service temperature range 2: -40 °C to +110 °C The terminal blocks are intended for use in two separate temperature ranges. Service temperature range 1 defines the use of the terminal blocks in extreme cold. Service temperature range 2 defines the use of the terminal blocks in extreme heat.			

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Nomenclature

a)	b)	c)	d)	e)	f)	g)
P	T			4		*
P	T			4	-TWIN	*
P	T			4	-QUATTRO	*
P	T			4	*	-PE
P	T	T	B	4		*
P	T	T	B	4		-PE
P	T	T	B	4	-PV	*

Legend		
a)	P	Type of clamping unit "Push-In"
b)	T	Terminal
c)	T	Double level
d)	B	Both levels bridgeable
e)	4	Rated cross-section
f)	-TWIN -QUATTRO -PV	3 connections 4 connections With equipotential bonder
g)	-PE *	Grounding, with snap-on grounding foot All colours, e.g. BK, RD, OG, YE, GN, WH, BU (The standard type is grey.)

Variation 1 - This variation introduced the following changes:

- A new insulating material added.
- Two separate service temperature ranges.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	01 June 2022	R80113986A	The release of the prime certificate.
1	04 June 2025	R80245211A	The introduction of Variation 1.

15 SCHEDULE OF LIMITATIONS

- The terminals shall be mounted in an enclosure that meets the requirements of an approved type of protection as specified in EN 60079-0, section 1 or EN 60079-31.
- When installing the terminals in an enclosure designed to Increased Safety "eb" type of protection as specified in EN 60079-7, the clearance and creepage distances shown in table 2 shall be duly considered.
- If accessories are used, the instructions for installation provided by the manufacturer shall be observed.



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- 15.4 The terminal blocks are intended for use in two separate temperature ranges: service temperature range 1: -60 °C to +85 °C and service temperature range 2: -40 °C to +110 °C. Service temperature 1 defines the use of the terminal blocks in extreme cold. Service temperature 2 defines the use of the terminal blocks in extreme heat.
- 15.5 Installation of electrical components requires a further assessment by an ExAB.
- 16 **ESSENTIAL HEALTH AND SAFETY REQUIREMENTS (REGULATIONS SCHEDULE 1)**
- In addition to the Essential Health and Safety Requirements covered by the standards listed in Section 9, all other requirements are demonstrated in the relevant reports.
- 17 **PRODUCTION CONTROL**
- 17.1 Holders of this certificate are required to comply with production control requirements defined in Schedule 3A, as applicable, and CSA Group Testing UK Regulations for Certificate Holders.
- 17.2 The components used are monitored for their compliance with the specifications and functionality within the framework of single-part production and assembly.
- 17.3 A routine test is carried out in the form of dielectric test in accordance with IEC/EN 60079-7 clause 7.1 in conjunction with clause 6.1 with the test values specified for terminals in accordance with IEC/EN 609471-1, Table 12A.



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Certificate Annexe

Certificate Number: CSAE 22UKEX1100U

Product: Feed-through terminal blocks and protective-conductor terminal blocks,
Type PT 4**, PT 4*-PE, PTTB 4**, PTTB 4-PE

Manufacturer: PHOENIX CONTACT GmbH & Co. KG

Issue 0

Drawing	Sheets	Rev.	Date (Stamp)	Title
Description PT 4 series and PTTB 4 series	1 to 3	07	29 Apr 22	Description PT 4 series and PTTB 4 series
01375957	1 to 4	00	29 Apr 22	Material data sheet of Terminal Blocks PT 4 series
00798983	1 to 3	00	29 Apr 22	Installation Instruction PT 4
Nomenclature	1 of 1	01	29 Apr 22	Nomenclature
00805688	1 of 1	00	29 Apr 22	Material data sheet
00555625	1 of 1	08	29 Apr 22	General Arrangement Drawing PT 4
00555658	1 of 1	07	29 Apr 22	General Arrangement Drawing PT 4-TWIN
00555716	1 of 1	08	29 Apr 22	General Arrangement Drawing PT 4-QUATTRO
00555718	1 of 1	07	29 Apr 22	General Arrangement Drawing PTTB 4(-PV)
00555751	1 of 1	06	29 Apr 22	General Arrangement Drawing PT 4-PE
00555765	1 of 1	06	29 Apr 22	General Arrangement Drawing PT 4-TWIN-PE
00555767	1 of 1	06	29 Apr 22	General Arrangement Drawing PT 4-QUATTRO-PE
00555879	1 of 1	06	29 Apr 22	General Arrangement Drawing PTTB 4-PE
00559109	1 of 1	03	29 Apr 22	Terminal Block Drawing PT 4
00559138	1 of 1	03	29 Apr 22	Terminal Block Drawing PT 4-TWIN
00559145	1 of 1	03	29 Apr 22	Terminal Block Drawing PT 4-QUATTRO
00559164	1 of 1	03	29 Apr 22	Terminal Block Drawing PTTB 4(-PV)
00559603	1 of 1	03	29 Apr 22	Terminal Block Drawing PT 4-PE
00559568	1 of 1	03	29 Apr 22	Terminal Block Drawing PT 4-TWIN-PE
00559598	1 of 1	03	29 Apr 22	Terminal Block Drawing PT 4-QUATTRO-PE
00558134	1 of 1	03	29 Apr 22	Terminal Block Drawing PTTB 4-PE
01145846	1 of 1	01	30 Mar 22	UKCA marking
MNR 01019187	1 of 2	00	04 Apr 22	Operation Instruction PT 4
MNR 01019188	1 of 2	00	04 Apr 22	Operation Instruction PT 4-PE
MNR 01019189	1 of 2	00	04 Apr 22	Operation Instruction PT 4-QUATTRO
MNR 01019190	1 of 2	00	04 Apr 22	Operation Instruction PT 4-QUATTRO-PE
MNR 01019191	1 of 2	00	04 Apr 22	Operation Instruction PT 4-TWIN
MNR 01019192	1 of 2	00	04 Apr 22	Operation Instruction PT 4-TWIN-PE
MNR 01019193	1 of 2	00	04 Apr 22	Operation Instruction PTTB 4
MNR 01019194	1 of 2	00	04 Apr 22	Operation Instruction PTTB 4-PV
MNR 01019196	1 of 2	00	04 Apr 22	Operation Instruction PTTB 4-PE

Issue 1

Drawing	Sheets	Rev.	Date (Stamp)	Title
01375957	1 to 4	02	24 Apr 25	MATERIAL DATA SHEET
MNR 01019187	1 to 2	01	20 May 25	Installation notes for electrically skilled persons, PT 4



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Product: Feed-through terminal blocks and protective-conductor terminal blocks,
Type PT 4**, PT 4*-PE, PTTB 4**, PTTB 4-PE

Manufacturer: PHOENIX CONTACT GmbH & Co. KG

Drawing	Sheets	Rev.	Date (Stamp)	Title
MNR 01019188	1 to 2	01	20 May 25	Installation notes for electrically skilled persons, PT 4-PE
MNR 01019189	1 to 2	01	20 May 25	Installation notes for electrically skilled persons, PT 4-QUATTRO
MNR 01019190	1 to 2	01	20 May 25	Installation notes for electrically skilled persons, PT 4-QUATTRO-PE
MNR 01019191	1 to 2	01	20 May 25	Installation notes for electrically skilled persons, PT 4-TWIN
MNR 01019192	1 to 2	01	20 May 25	Installation notes for electrically skilled persons, PT 4-TWIN-PE
MNR 01019193	1 to 2	01	20 May 25	Installation notes for electrically skilled persons, PTTB 4
MNR 01019194	1 to 2	01	20 May 25	Installation notes for electrically skilled persons, PTTB 4-PV
MNR 01019196	1 to 2	01	20 May 25	Installation notes for electrically skilled persons, PTTB 4-PE



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