UNITED KINGDOM CONFORMITY ASSESSMENT

1 **UK TYPE EXAMINATION CERTIFICATE**

2 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

3 Certificate Number: **CSAE 22UKEX1096U** Issue: **1**

4 Product: **Feed-through terminal blocks, types PT 2,5 (R1)*** and PTTB 2,5 (R1)***

5 Manufacturer: **PHOENIX CONTACT GmbH & Co. KG**

6 Address: Flachsmarkstraße 8
Blomberg
North Rhine-Westphalia
D-32825
Germany

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

8 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.

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

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.

10 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.

11 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.

12 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

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13 **DESCRIPTION OF PRODUCT**

Feed-through terminal blocks, types PT 2,5 (R1)*** and PTTB 2,5 (R1)*** consist of an insulating housing (polyamide PA 6.6) in different colours, current bar(s) equipped with springs (screwless-type clamping units) and an orange pigmented 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 2,5***, D-STTB 2,5 and D-PT 2,5-***, separating plates type ATP-ST""" and ATP-STTB 2,5, end supports as well as plug-in bridges type FBS***-5. The terminal blocks are fastened on mounting rails.

Protective conductor terminal blocks, types PT 2,5 (R1)*""-PE and PTTB 2,5-PE (R1) consist of a green-yellow pigmented insulating housing (polyamide PA 6.6), current bar(s) equipped with springs (screwless-type clamping units), an orange pigmented 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 2.5**	PT 2.5-QUATTRO**	PT 2.5-TWIN**	PTTB 2.5**	PTTB 2.5-PV**
Rated insulation voltage	[V]	500	500	500	400	400
Rated voltage	[V]	550	550	550	440	440
- with jumper FBS...	[V]	550	550	550	440	440
-with skipping jumper	[V]	352	352	352	352	352
-with cut to length bridge	[V]	220	220	220	166	166
-with cut to length bridge and cover type D	[V]	275	275	275	352	352
-with cut to length bridge and cover type ATP	[V]	550	550	550	440	440
Rated current (Temperature rise 40K, cross section 2.5mm²)	[A]	19	19	19	18	18
Rated current (Temperature rise 40K, cross section 4mm²)	[A]	23	23	23	22	22

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Type Designation		PT 2.5**	PT 2.5-QUATTRO**	PT 2.5-TWIN**	PTTB 2.5**	PTTB 2.5-PV**
Rated current						
-with jumper FBS... Rated current (Temperature rise 40K, cross section 2.5mm²)	[A]	19	19	19	16	16
-with jumper FBS... Rated current (Temperature rise 40K, cross section 4mm²)	[A]	22	22	22	19	19
Contact resistance (cross section 2.5 mm²)	[mΩ]	0.93	1.14	1.03	Lower level 1.20 upper level 0.92	Lower level 1.20 upper level 0.92
Contact resistance (cross section 4 mm²)	[mΩ]	0.86	0.89	0.87	Lower level 0.86 upper level 0.63	Lower level 0.86 upper level 0.63
Rated cross section (mm²) (AWG)	(mm²) (AWG)	2.5 (14)	2.5 (14)	2.5 (14)	2.5 (14)	2.5 (14)
Rated connecting capacity						
-Rigid[mm²] (AWG)	(mm²) (AWG)	0.14-4 (26-12)	0.14-4 (26-12)	0.14-4 (26-12)	0.14-4 (26-12)	0.14-4 (26-12)
-Flexible[mm²] (AWG)	(mm²) (AWG)	0.14-2.5 (26-14)	0.14-2.5 (26-14)	0.14-2.5 (26-14)	0.14-2.5 (26-14)	0.14-2.5 (26-14)
Stripping length	[mm]	10	10	10	10	10
Assembly	On DIN rails NS35 acc. to EN 60715-TH 35					
Service temperature	[°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						

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Type Designation		PT 2.5-PE	PT 2.5- QUATTRO-PE	PT 2.5-TWIN-PE	PTTB 2.5-PE
Rated cross section	[mm²] (AWG)	4 (14)	4 (14)	4 (14)	4 (14)
Rated connecting capacity					
- rigid[mm²](AWG)	[mm²] (AWG)	0.14-4 (26-12)	0.14-4 (26-12)	0.14-4 (26-12)	0.14-4 (26-12)
-flexible[mm²] (AWG)	[mm²] (AWG)	0.14-2.5 (26-14)	0.14-2.5 (26-14)	0.14-2.5 (26-14)	0.14-2.5 (26-14)
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.			

Nomenclature

a)	b)	c)	d)	e)	f)	g)	h)
P	T			2.5		*	(R1)
P	T			2.5	-TWIN	*	(R1)
P	T			2.5	-QUATTRO	*	(R1)
P	T			2.5		-PE	(R1)
P	T	T	B	2.5		*	(R1)
P	T	T	B	2.5		-PE	(R1)
P	T	T	B	2.5	-PV	*	(R1)

Legend		
a)	P	Type of clamping unit " Push-In"
b)	T	Terminal
c)	T	Double level
d)	B	Both level bridgeable
e)	2.5	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)
h)	(R1)	Revision level 1 (marked on the insulation body)

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Variation 1 - This variation introduced the following changes:

i. A new insulating material added.
ii. Two separate service temperature ranges.
iii. Converting the PE terminal blocks from one to two pushers.

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	26 May 2022	R80113984A	The release of the prime certificate.
1	04 June 2025	R80245210A	The introduction of Variation 1.

15 SCHEDULE OF LIMITATIONS

15.1 The terminals shall be mounted in an enclosure that meets the requirements of an approved type of protection as specified in EN IEC 60079-0, section 1 or EN 60079-31.

15.2 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.

15.3 If accessories are used, the instructions for installation provided by the manufacturer shall be observed.

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 EN 60079-7, clause 7.1 in conjunction with clause 6.1 with the test values specified for terminals in accordance with IEC/EN 60947-1, Table 12A.

Certificate Annexe

Certificate Number: **CSAE 22UKEX1096U**

Product: **Feed-through terminal blocks, types PT 2,5 (R1)*** and PTTB 2,5 (R1)***

Manufacturer: **PHOENIX CONTACT GmbH & Co. KG**

Issue 0

Drawing	Sheets	Rev.	Date	Title
01369816	1 to 15	00	27-Jul-21	Overview and list of material
Description	1 to 3	06	17-May-21	Description PT 2.5
Description PT 2,5 series	1 to 3	05	07-Oct-14	Description PT 2.5 series
Nomenclature	1 of 1	01	25-Sep-14	Nomenclature
00798981	1 to 3	00	07-Oct-14	Installation instruction PT 2.5 series
00500730	1 of 1	06	29-Mar-21	General Arrangement Drawing PT 2.5
00790929	1 of 1	04	03-May-21	General Arrangement Drawing PT 2.5 R1
00790905	1 of 1	02	23-Jul-18	General Arrangement drawing PT 2.5-PE R1
00495314	1 of 1	02	16-Apr-21	Terminal Block PT 2,5
00505025	1 of 1	05	23-Jul-18	General Arrangement Drawing PT 2.5-PE
00790905	1 of 1	02	23-Jul-18	General Arrangement Drawing PT 2.5-PE R1
00518138	1 of 1	02	16-Apr-21	Terminal Block PT 2.5-PE
00501131	1 of 1	06	29-Mar-21	General Arrangement Drawing PT 2.5-QUATTRO
00790789	1 of 1	04	03-May-21	General Arrangement Drawing PT 2.5-QUATTRO R1
00498802	1 of 1	02	16-Apr-21	Terminal Block PT 2.5-QUATTRO
00505119	1 of 1	05	23-Jul-18	General Arrangement Drawing PT 2.5-QUATTRO-PE
00790776	1 of 1	02	23-Jul-18	General Arrangement Drawing PT 2.5-QUATTRO-PE R1
00518373	1 of 1	02	16-Apr-21	Terminal Block PT 2.5-QUATTRO-PE
00501116	1 of 1	06	29-Mar-21	General Arrangement Drawing PT 2.5-TWN
00790395	1 of 1	04	03-May-21	General Arrangement Drawing PT 2.5-TWN R1
00498706	1 of 1	02	16-Apr-21	Terminal Block PT 2.5-TWN
00505108	1 of 1	05	20-Jul-18	General Arrangement Drawing PT 2.5-TWN-PE
00790686	1 of 1	02	23-Jul-18	General Arrangement Drawing PT 2.5-TWN-PE R1
00518281	1 of 1	02	16-Apr-21	Terminal Block PT 2.5-TWN-PE
00791187	1 of 1	03	29-Mar-21	General Arrangement Drawing PTTB 2.5
00791096	1 of 1	03	06-May-21	General Arrangement Drawing PTTB 2.5-PV
00530357	1 of 1	02	16-Apr-21	Terminal Block PTTB 2.5 (-PV)
00791212	1 of 1	02	6-May-21	General Arrangement Drawing PTTB 2.5-PE
00530415	1 of 1	02	16-Apr-21	Terminal Block PTTB 2.5-PE

Drawing	Sheets	Rev.	Date (Stamp)	Title
01145526	1 of 1	03	05-Apr-22	Marking
MNR 01019178	1 to 2	00	05-Apr-22	Installation instructions
MNR 01019179	1 to 2	00	05-Apr-22	Installation instructions
MNR 01019180	1 to 2	00	05-Apr-22	Installation instructions
MNR 01019181	1 to 2	00	20-Apr-22	Installation instructions
MNR 01019182	1 to 2	00	05-Apr-22	Installation instructions

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Certificate Number: **CSAE 22UKEX1096U**

Product: **Feed-through terminal blocks, types PT 2,5 (R1)*** and PTTB 2,5 (R1)***

Manufacturer: **PHOENIX CONTACT GmbH & Co. KG**

Drawing	Sheets	Rev.	Date (Stamp)	Title
MNR 01019183	1 to 2	00	05-Apr-22	Installation instructions
MNR 01019184	1 to 2	00	05-Apr-22	Installation instructions
MNR 01019185	1 to 2	00	05-Apr-22	Installation instructions
MNR 01019186	1 to 2	00	05-Apr-22	Installation instructions
MNR 01094352	1 to 2	00	05-Apr-22	Installation Instructions

Issue 1

Drawing	Sheets	Rev.	Date (Stamp)	Title
01369816	1 to 15	02	24 Apr 25	MATERIAL DATA SHEET
00505025	1 of 1	06	24 Apr 25	PT 2,5-PE
00505108	1 to 2	06	24 Apr 25	PT 2,5-TWIN-PE
00505119	1 of 1	06	24 Apr 25	PT 2,5-QUATTRO-PE
MNR 01019178	1 to 2	01	19 May 25	Installation notes for electrically skilled persons
MNR 01019179	1 to 2	01	19 May 25	Installation notes for electrically skilled persons
MNR 01019180	1 to 2	01	19 May 25	Installation notes for electrically skilled persons
MNR 01019181	1 to 2	01	19 May 25	Installation notes for electrically skilled persons
MNR 01019182	1 to 2	01	19 May 25	Installation notes for electrically skilled persons
MNR 01019183	1 to 2	01	19 May 25	Installation notes for electrically skilled persons
MNR 01019184	1 to 2	01	19 May 25	Installation notes for electrically skilled persons
MNR 01019185	1 to 2	01	19 May 25	Installation notes for electrically skilled persons
MNR 01019186	1 to 2	01	19 May 25	Installation notes for electrically skilled persons
MNR 01094352	1 to 2	01	19 May 25	Installation notes for electrically skilled persons