[1] # TYPE EXAMINATION CERTIFICATE

[2] **Component intended for use on/in an Equipment or Protective System Potentially Explosive Atmospheres Directive 2014/34/EU**

[3] Type Examination Certificate Number: **DEMKO 14 ATEX 1353U Rev. 5**

[4] Component: **Terminal Blocks with Optional Fuse Holders**

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

[6] Address: **Flachsmarktstraße 8, 32825 Blomberg, Germany**

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

[8] UL International Demko A/S 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 Annex II to Directive 2014/34/EU of 26 February 2014.

The examination and test results are recorded in confidential report number: **US/UL/ExTR13.0009/06.**

[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 item 18 of the Schedule.

[10] The sign "U" is placed after the certificate number. It 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 a basis for certification of an equipment or protective system.

[11] This Type Examination Certificate relates only to the design of the specified component, and not to specific items of component subsequently manufactured.

[12] The marking of the component shall include the following:

II 3 G Ex ec IIC Gc

Certification Manager
Jan-Erik Storgaard

This is to certify that the sample(s) of the Component described herein ("Certified Component") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the component sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the component. The Manufacturer are solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2014-10-24
Re-issued: 2022-04-14

Certification Body
UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark
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[14]

Schedule
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[15] Description of Component:
The devices are Ex Component terminal blocks for use in explosive atmospheres when installed and used in accordance with the specified Schedule of Limitations. The terminal blocks are suitable for mounting on NS 35 DIN rail.

Models UT 2.5-MTS-EX, UT 4-MT-EX and UT 4-MT-P/P-EX contain a knife disconnect switch.

Model UT 2.5-HESI-EX contains plug-in fuse holder type HESI.

Models UT 4-TG-EX and UT 4-TG-P/P-EX may be used with an optional plug-in fuse holder type P-FU 5x20-EX, P-FU 5x20 LED 24-EX, P-FU 5x20 LED 60-EX or P-FU 5x20 LA 250-EX. Each of these plug-in fuse holders may hold a 5x20 mm size cartridge fuse. The terminals may also be used with optional plug-in bridge connector type FBS 2-6.

Models UT-6-TG-EX and UT 6-TG-P/P-EX may be used with an optional plug-in fuse holder type P-FU 6, 3x32-EX, P-FU6, 32x32 LED 24-EX, P-FU 6, 3x32 LED 60-EX, or P-FU 6, 3x32 LA 250-EX. Each of these plug-in fuse holders may hold a 6.3x32 mm size cartridge fuse. The terminal may also be used with optional plug-in bridge connector type FBS 2-8.

The optical radiation output of the LED with respect to explosion protection, according to Annex II clause 1.3.1 of the Directive 2014/34/EU is covered in this certificate based on Exception 1 to the scope of EN 60079-28:2015 .
Nomenclature for Terminal block:

Terminal block						Suitable Fuse holder Accessory			
UT	4	-MT		-Ex			none		
		-MT	-P/P	-Ex			none		
UT						P-FU	5 x 20		-Ex
	4	-TG		-Ex		P-FU	5 x 20	LED 24	-Ex
		-TG	-P/P	-Ex	+	P-FU	5 x 20	LED 60	-Ex
						P-FU	5 x 20	LA250	-Ex
UT						P-FU	6,3 x 32		-Ex
	6	-TG		-Ex		P-FU	6,3 x 32	LED 24	-Ex
		-TG	-P/P	-Ex	+	P-FU	6,3 x 32	LED 60	-Ex
						P-FU	6,3 x 32	LA 250	-Ex
UT	2.5	-HESI		-EX			none		
		-MTS		-EX			none		
1	2	3	4	5		A1	A2	A3	A4

1. Basic Type No. UT Screw connection terminal block

2. Suffixes 2.5 Size of terminal block with specific Cross-section
4
6

3. Suffixes -MT Knife disconnect
-TG Plug disconnect
-HESI with Fuse holder 5x20 mm
-MTS Knife disconnect

4. Suffix -P/P with test socket screws

5. Suffix -Ex Terminal block tested and marked for HazLoc use

A1. Basic Accessory Type No. P-FU

Pluggable fuse holder for use with –TG or –TG-P/P terminal blocks

A2. Suffix 5 x 20 for 5 x 20 mm cartridge fuse links
6,3 x 32 for 6,3 x 32 mm cartridge fuse links

A3. Suffix LED 24 equipment with 24 V LED blown fuse ID
LED 60 equipment with 60 V LED blown fuse ID
LA 250 equipment with 250 V LED blown fuse ID

A4. Suffix -Ex Pluggable fuse holder tested for HazLoc use

Temperature range:
The ambient temperature range is not applicable per EN IEC 60079-0:2018.

The service temperature is between -50ºC to +125 ºC for types UT 2.5-MTS-EX, UT 4-MT-EX and UT 4-MT-P/P-EX. The service temperature is between -50ºC to +130 ºC for types UT 2.5-HESI-EX, UT 4-TG-EX, UT 4-TG-P/P-EX, UT 6-TG-EX and UT 6-TG-P/P-EX.

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Electrical data

Models	Rated Voltage	Max. Rated Current	Rated Cross section (mm^2)	Stripping length (mm)	Wire size rigid/flexible (mm^2)	Torque (Nm)	Conductor range for 2 wires (mm^2)
UT 2.5-HESI-EX	250V	6.3 A	2.5	9	0.14 - 4	0.5 – 0.6	0.14 – 1.5
UT 2.5-MTS-EX	440V	18.5 A	2.5	9	0.14 - 4	0.5 – 0.6	0.14 – 1.5
UT 4-MT-EX UT 4-MT-P/P-EX	500 V 250 V	16 A 16 A	4	9	0.14 - 6	0.6 – 0.8	0.14 – 1.5
UT 4-TG-EX UT 4-TG-P/P-EX	250 V	6.3 A	4	9	0.14 - 6	0.6 – 0.8	0.14 – 1.5
UT 6-TG-EX UT 6-TG-P/P-EX	250 V	6.3 A	6	9	0.2 - 10	0.6 – 0.8	0.2 – 2.5
P-FU 5x20-EX P-FU 6,3x32-EX	250 V	N/A	N/A	N/A	N/A	N/A	N/A
P-FU 5x20 LED 24-EX P-FU 6,3x32 LED 24-EX	12-30 V DC	0.31-0.95mA	N/A	N/A	N/A	N/A	N/A
P-FU 5x20 LED 60-EX P-FU 6,3x32 LED 60-EX	30-60 V	0.40-0.86mA	N/A	N/A	N/A	N/A	N/A
P-FU 5x20 LA 250-EX P-FU 6,3x32 LA 250-EX	110-250 V	0.41-0.96mA	N/A	N/A	N/A	N/A	N/A

Installation instructions:
The terminals must be installed within an appropriate enclosure certified for the area with a minimum rating of IP54.

Routine tests:
The Dielectric Routine test shall be carried out in accordance with clients testing requirements stated in document “Stückprüfung für „Ex“-Komponenten im automatisierten und teilautomatisierten Montageprozess (ATEX-Prüfung)” dated 2021-10.

[16] Descriptive Documents
The scheduled drawings are listed in the report no. provided under item no. [8] on page 1 of this Type Examination Certificate.

[17] Schedule of Limitations:

- The terminals must be installed within an appropriate enclosure certified for the area with a minimum rating of IP54, which shall bear the warning: WARNING – DO NOT REMOVE OR REPLACE THE FUSE / KNIFE DISCONNECT SWITCH WHEN ENERGIZED!
- The service temperature range of the terminals shall not be exceeded.
- The terminal can be used with either one or two wires into either side of the terminal. When two wires are used they must be of the same type, and of equal sizes. No other wire sizes or types than the ones specified in instructions must be used. The terminal blocks must either be mounted next to another block of the same type and size or with an end plate.
- If smaller conductor cross sections than the rated conductor cross sections are used, then the corresponding lower current shall be stated in the Certificate of the complete apparatus
- All unused terminals shall be tightened.

[18] Essential Health and Safety Requirements
The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9

Additional information
The trademark PHOENIX CONTACT will be used as the company identifier on the marking label.