

# TYPE EXAMINATION CERTIFICATE



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## Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

[3]

Type Examination Certificate Number: **DEMKO 14 ATEX 1353U Rev. 0**

[4]

Component: **Terminal Blocks with Optional Fuse Holders**

[5]

Manufacturer: **Phoenix Contact GmbH & Co. KG**

[6]

Address: **Flachmarktstrasse 8, Blomberg 32825, Germany**

[7]

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

[8]

UL International Demko A/S certifies that this equipment has been found to comply with the Essential Health and Safety Requirements that relate to the design of **Category 3** equipment, which is intended for use in potentially explosive atmospheres. These Essential Health and Safety Requirements are given in Annex II to the European Union Directive 94/9/EC of 23 March 1994.

The examination and test results are recorded in confidential report number: **4786470502**

[9]

Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to Standards:

**EN 60079-0:2012+A11:2013**

**EN 60079-15:2010**

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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 a basis for certification of an equipment or protective.

[11]

This Type examination certificate relates only to the design of the specified component, and not to specific items of equipment subsequently manufactured.

[12]

The marking of the equipment or protective system shall include the following:

 **II 3 G Ex nA IIC Gc**

### Certification Manager

Jan-Erik Storgaard

This is to certify that the sample(s) of the Equipment described herein ("Certified Equipment") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Equipment Certification Program Requirements. This certificate and test results obtained apply only to the equipment 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 equipment. UL has not established Follow-Up Service or other surveillance of the equipment. The Manufacturer are solely and fully responsible for conformity of all equipment 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

### Certification Body

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark  
Tel. +45 44 85 65 65, [info.dk@ul.com](mailto:info.dk@ul.com), [www.ul.com](http://www.ul.com)



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## Schedule TYPE EXAMINATION CERTIFICATE No. DEMKO 14 ATEX 1353U Rev. 0 Report: 4786470502

[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 4-MT-EX and UT 4-MT-P/P-EX contain a knife disconnect switch.

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.

Nomenclature for Terminal block:

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

- 1. Basic Type No. UT Screw connection terminal block
- 2. Suffixes 4 Size of terminal block with specific Cross-section  
6
- 3. Suffixes -MT Knife disconnect  
-TG Plug 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 60079-0:2012+A11:2013.

The service temperature is between -50°C to +125 °C for types UT 4-MT-EX and UT 4-MT-P/P-EX. The service temperature is between -50°C to +130 °C for types 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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**Schedule**  
**TYPE EXAMINATION CERTIFICATE No.**  
**DEMKO 14 ATEX 1353U** Rev. 0  
**Report: 4786470502**

Electrical data

Models	Rated Voltage	Max. Rated Current
UT 4-MT-EX UT 4-MT-P/P-EX	500 V	20 A
UT 4-TG-EX UT 4-TG-P/P-EX	250 V	6.3 A
UT 6-TG-EX UT 6-TG-P/P-EX	25 V	6.3 A
P-FU 5x20-EX P-FU 6,3x32-EX	250 V	N/A
P-FU 5x20 LED 24-EX P-FU 6,3x32 LED 24-EX	12-30 V DC	0.31 – 0.95 mA
P-FU 5x20 LED 60-EX P-FU 6,3x32 LED 60-EX	30-60 V	0.40 – 0.86 mA
P-FU 5x20 LA 250-EX P-FU 6,3x32 LA 250-EX	110-250 V	0.41 – 0.96 mA

Installation instructions:

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

Routine tests:

Routine tests according to EN 60079-15 are not required.

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Report No.:  
Project Report No.: 4786470502 (Hazardous Location Testing)

Documents:

Description:	Document No.:	Rev. Level:	Date:
UT 4-MT-(P/P)-EX	00676844	-	2012-08-08
UT 4-TG-(P/P)-EX	00676471	-	2012-08-06
UT 6-TG-(P/P)-EX	00676898	-	2012-08-08
P-FU 6.3x32-EX	00721375	-	2013-04-15
P-FU 5x20-EX	00721398	-	2013-04-15
P-FU_5x20-LED-EX	00740575	-	2013-07-31
P-FU_63x32-LED-EX	00740681	-	2013-08-01
UT 4-MT-(P/P)-EX Marking and Installation Instruction Detail	00721263	-	2014-10-07
UT 4-TG-(P/P)-EX Marking and Installation Instruction Detail	00721301	-	2014-10-07
UT6-TG-(P/P)-EX Marking and Installation Instruction Detail	00721336	-	2014-10-07

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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!

[18]

Essential Health and Safety Requirements

Met by compliance with the standards EN 60079-0:2012+A11:2013 and EN 60079-15:2010.

