



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Ex COMPONENT CERTIFICATE

| | | | |
|---------------------|---|-------------|--|
| Certificate No.: | IECEx UL 13.0007U | Page 1 of 4 | <u>Certificate history:</u> |
| Status: | Current | Issue No: 6 | Issue 5 (2022-01-25) Issue 4 (2021-11-17) Issue 3 (2019-09-26) Issue 2 (2015-01-15) Issue 1 (2014-10-23) Issue 0 (2013-08-08) |
| Date of Issue: | 2022-04-14 | | |
| Applicant: | PHOENIX CONTACT GmbH & Co. KG Flachsmarktstraße 8 32825 Blomberg Germany | | |
| Ex Component: | Terminal blocks with optional fuse holders | | |
| Type of Protection: | Increased Safety "ec" | | |
| Marking: | Ex ec IIC Gc | | |

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **Increased Safety "ec"**

Marking: Ex ec IIC Gc

Approved for issue on behalf of the IECEx
Certification Body:

Lucy Frieders

Position:

Staff Engineer

Signature:
(for printed version)

Date:
(for printed version)

2022-04-14

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2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

UL LLC
333 Pfingsten Road
Northbrook IL 60062-2096
United States of America





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Date of issue: 2022-04-14

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Manufacturer: **PHOENIX CONTACT GmbH & Co. KG**
Flachsmarktstraße 8
32825 Blomberg
Germany

Manufacturing locations: **PHOENIX CONTACT GmbH & Co. KG**
Flachsmarktstraße 8
32825 Blomberg
Germany

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The component and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the component listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[US/UL/ExTR13.0009/00](#)
[US/UL/ExTR13.0009/03](#)
[US/UL/ExTR13.0009/06](#)

[US/UL/ExTR13.0009/01](#)
[US/UL/ExTR13.0009/04](#)

[US/UL/ExTR13.0009/02](#)
[US/UL/ExTR13.0009/05](#)

Quality Assessment Report:

[NL/DEK/QAR11.0009/08](#)



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Ex Component(s) covered by this certificate is described below:

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.

Please see Annex for additional information.

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 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.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1: Drawing revisions.

Issue 2: Correction of electrical rating errors.

Issue 3: Type of protection updated from "nA" to "ec", using the latest standard editions. Revised construction of Fuse holders P-FU 5x20-EX and P-FU_5x20-LED-EX.

Issue 4: An alternative insulation material was added to the certificate for series UT 4, UT 6 and related P-FU accessories as covered by the model/type reference.

Issue 5: Adds models UT 2.5-MTS-EX and UT 2.5-HESI-EX.

Issue 6: Correction of voltage rating of model UT 2.5-HESI-EX.

Annex:

[Annex to IECEx UL 13.0007U Issue 6.pdf](#)



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TYPE DESIGNATION

NOMENCLATURE:

The Type Nos. are designated as follows:

Typical Type No.

| Terminal block | | | | | Suitable Fuse holder Accessory | | |
|----------------|-----|-------|------|-----|--------------------------------|----------|--------|
| UT | 4 | -MT | | -EX | | none | |
| | | -MT | -P/P | -EX | | none | |
| | | | | | P-FU | 5 x 20 | -EX |
| UT | 4 | -TG | | -EX | + P-FU | 5 x 20 | LED 24 |
| | | -TG | -P/P | -EX | + P-FU | 5 x 20 | LED 60 |
| | | | | | + P-FU | 5 x 20 | LA 250 |
| | | | | | P-FU | 6,3 x 32 | -EX |
| UT | 6 | -TG | | -EX | + P-FU | 6,3 x 32 | LED 24 |
| | | -TG | -P/P | -EX | + P-FU | 6,3 x 32 | LED 60 |
| | | | | | + P-FU | 6,3 x 32 | LA 250 |
| 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

4. Suffix -P/P with test socket screws

-HESI with Fuse holder 5x20 mm

-MTS Knife disconnect

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 equipped with 24 V LED blown fuse ID
LED 60 equipped with 60 V LED blown fuse ID
LA 250 equipped with 250 V neon blown fuse ID

A4. Suffix -EX Pluggable fuse holder tested for hazloc use



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PARAMETERS RELATING TO THE SAFETY

| 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 |



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MARKING

Example for Marking "Manufacture Name"



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.