



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.: **IECEX ULD 05.0009U** Issue No.: **1**

Status: **Current**

Date of Issue: **2007-02-02** Page 1 of 4

Applicant: **Weidmüller Interface GmbH & Co**
Klingenbergstraße 16,
Detmold D-32758
Germany

Electrical Apparatus: **Terminal Blocks, Z-Series, type feed-through and protective conductor (PE)**
Optional accessory:

Type of Protection: **Increased Safety 'e'**

Marking: **Ex e II**

Approved for issue on behalf of the IECEX
Certification Body:

Steen Christensen

Position:

Certification Staff Engineer, B.Sc.

Signature:
(for printed version)

Date:

2007-02-02

1. This certificate and schedule may only be reproduced in full.
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 the Official IECEX Website.

Certificate issued by:

UL International DEMKO A/S

Lyskaer 8
P O Box 514
2730 Herlev
Denmark





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Manufacturer: Weidmüller Interface GmbH & Co
 Klingenbergstraße 16,
 Detmold D-32758
 Germany

Manufacturing location(s):

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 electrical apparatus 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 : 2004 Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-7 : 2001 Edition: 3	Electrical apparatus for explosive gas atmospheres - Part 7: Increased safety 'e'

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

TEST & ASSESSMENT REPORTS:

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

Test Report:

DK/ULD/ExTR06.0006/00
 DK/ULD/ExTR06.0006/01

Quality Assessment Report:

NL/KEM/QAR06.0006/01



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Z-Series feed-through terminal blocks and protective conductor (PE) terminal blocks, with screw-less and screwed connections, for the connection of copper conductors (1 wire per termination) in enclosures in type of explosion protection increased safety "e", with insulating parts made of Wemid, with accessories (end plates, partitions, cross-connectors, end brackets and identification material) for fixing on a mounting rail.

Operating temperature range -50 °C ... +100 °C.

Ambient temperature range -50 °C ... +40 °C (for T6 applications).

Ambient temperature range -50 °C ... +55 °C (for T5 applications).

Technical data:

Type	Rated Voltage (V)	Rated Current (A)	Rated cross Section (mm ²)	Capacity (mm ²)
ZDU 2,5-2/3AN	550	20	2,5	0,5 - 2,5
ZDU 2,5-2/4AN	550	20	2,5	0,5 - 2,5
ZDK 2,5/1,5	275	20	2,5/1,5	0,5 - 2,5
ZDK 2,5/1,5V	440	20	2,5/1,5	0,5 - 2,5
ZDK 2,5/1,5 N-DU	275	20	2,5/1,5	0,5 - 2,5
ZDK 2,5/1,5 N-PE	275	20	2,5/1,5	0,5 - 2,5
ZDK 2,5/1,5 DU-PE	275	20	2,5/1,5	0,5 - 2,5
ZPE 2,5-2/3AN	-	-	2,5	0,5 - 2,5
ZPE 2,5-2/4AN	-	-	2,5	0,5 - 2,5
ZDK 2,5/1,5 PE	-	-	2,5/1,5	0,5 - 2,5
ZDU 1,5	550	15	1,5	0,5 - 1,5
ZDU 1,5 3AN	550	15	1,5	0,5 - 1,5
ZDU 1,5 4AN	550	15	1,5	0,5 - 1,5
ZPE 1,5	-	-	1,5	0,5 - 1,5
ZPE 1,5 3AN	-	-	1,5	0,5 - 1,5
ZPE 1,5 4AN	-	-	1,5	0,5 - 1,5
ZDU 2,5	550	20	2,5	0,5 - 4
ZDU 2,5/3AN	550	20	2,5	0,5 - 4
ZDU 2,5/4AN	550	20	2,5	0,5 - 4
ZDU 2,5/2xAN	550	20	2,5	0,5 - 4
ZDU 4	550	28	4	0,5 - 6
ZDU 6	550	36	6	0,5 - 10
ZPE 2,5	-	-	2,5	0,5 - 4
ZPE 2,5/3AN	-	-	2,5	0,5 - 4
ZPE 2,5/4AN	-	-	2,5	0,5 - 4
ZPE 4	-	-	4	0,5 - 6
ZPE 6	-	-	6	0,5 - 10

ZDU 10	550	50	10	1,5 - 16
ZDU 16	550	63	16	1,5 - 25
ZPE 10	-	-	10	1,5 - 16
ZPE 16	-	-	16	105 - 25

The applicable creepage and clearance distances, as stated in IEC 60079-7 Table 1, are met in the combination of feed through terminal blocks and protective conductor terminal blocks of the same size and rated values. In combination with other terminal block series and sizes the required creepage and clearance distances stated in IEC 60079-7 Table 1, shall be complied with.

Regarding the use of the accessories stated above, the installation instructions of the manufacturer shall be met.

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.

CONDITIONS OF CERTIFICATION: NO



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Additional types of terminals were added to this certification, see attached document Annexe 1.

Annexe 1 to: IECEx ULD 05.0009U
Manufacturer: Weidmüller Interface GmbH & Co
Equipment: Terminal Blocks, Z-Series, type feed-through and protective conductor (PE).

Description:

The Z-Series of feed-through terminal blocks and protective conductor (PE) terminal blocks, with screw-less and screwed connections, for the connection of copper conductors (1 wire per termination) in enclosures in type of explosion protection increased safety "e", insulating parts made of Wemid, with accessories (end plates, partitions, cross connectors, end brackets and identification material) for fixing on mounting rails type TS 35.

Code:

Ex e II

Rating:

-50°C to +40°C (for T6 applications) and
 -50°C to +55°C (for T5 applications)

The following types are added to the IECEx certificate IECEx ULD 05.0009U.

Markings table for Z-Series:

Type	Certificate number	Ex Code	Max. Rated Voltage [V]	Rated Current	Rated Cross section [mm ²]
ZDK 2.5-2	IECEx ULD 05.0009U	Ex e II	550	20	2,5
ZDK 2.5-2V	IECEx ULD 05.0009U	Ex e II	550	20	2,5
ZDU 1.5	IECEx ULD 05.0009U	Ex e II	550	15	1,5
ZDU 1.5/4AN	IECEx ULD 05.0009U	Ex e II	550	15	1,5
ZDU 1.5/3AN	IECEx ULD 05.0009U	Ex e II	550	15	1,5
ZDU 4/4AN	IECEx ULD 05.0009U	Ex e II	550	28	4
ZDU 4/3AN	IECEx ULD 05.0009U	Ex e II	550	28	6
ZDU 6/3AN	IECEx ULD 05.0009U	Ex e II	550	36	6
ZDU 10/3AN	IECEx ULD 05.0009U	Ex e II	550	50	10
ZDU 16/3AN	IECEx ULD 05.0009U	Ex e II	550	63	16
ZDU 35	IECEx ULD 05.0009U	Ex e II	550	109	35
ZPE 1.5	IECEx ULD 05.0009U	Ex e II	-	-	1,5
ZPE 1.5/4AN	IECEx ULD 05.0009U	Ex e II	-	-	1,5
ZPE 1.5/3AN	IECEx ULD 05.0009U	Ex e II	-	-	1,5
ZPE 4/3AN	IECEx ULD 05.0009U	Ex e II	-	-	4
ZPE 4/4AN	IECEx ULD 05.0009U	Ex e II	-	-	4
ZPE 6/3AN	IECEx ULD 05.0009U	Ex e II	-	-	6
ZPE 10/3AN	IECEx ULD 05.0009U	Ex e II	-	-	10
ZPE 16/3AN	IECEx ULD 05.0009U	Ex e II	-	-	16
ZPE 35	IECEx ULD 05.0009U	Ex e II	-	-	35

Report:

This report is based upon confidential report no. DK/ULD/ExTR06.0006/01

UL International Demko A/S

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Certificate: IECEx ULD 05.0009U
 Report: DK/ULD/ExTR06.0006/01

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