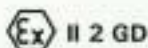



(1) EC-TYPE EXAMINATION CERTIFICATE

- (2) Components intended for use in potentially explosive atmospheres - Directive 94/9/EC
- (3) EC-Type Examination Certificate Number: **KEMA 00ATEX2061 U**
- (4) Components: **Feed Through Terminal Blocks Type WDK 2,5N, WDK 2,5N V, WDK 4N and WDK 4N V and Protective Conductor Terminal Blocks Type WDK 2,5N PE and WDK 4N PE**
- (5) Applicant: **Weidmüller Interface GmbH & Co.**
- (6) Address: **Klingenbergstraße 16, 32758 Detmold, Germany**
- (7) These components and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) KEMA, notified body number 0344 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that these components has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of components intended for use in potentially explosive atmospheres given in Annex II to the Directive.
- The examination and test results are recorded in confidential report no. 2004279.
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- EN 50014 : 1997 + A1 + A2 + prA3
EN 50019 : 1994 + prA1
EN 50281-1-1 : 1998**
- (10) The sign "U" placed after the certificate number indicates that this certificate describes components and must not be mistaken for a certificate intended for an equipment or protective system. This EC-Type Examination Certificate may be used as a basis for certification of an equipment or protective system.
- (11) This EC-Type Examination Certificate relates only to the design and construction of the specified components. If applicable, further requirements of this Directive apply to the manufacture and supply of these components.
- (12) The marking of the components shall include the following:

**II 2 GD****EEx e II**

Arnhem, 13 July 2000
by order of the Board of Directors of N.V. KEMA


L.M.J. Vries
Certification Manager

* This Certificate may only be reproduced in its entirety and without any change



SCHEDULE

(13)

(14)

to EC-Type Examination Certificate KEMA 00ATEX2061 U

(15) **Description**

Feed Through Terminal Blocks Type WDK 2,5N, WDK 2,5N V, WDK 4N and WDK 4N V and Protective Conductor Terminal Blocks Type WDK 2,5N PE and WDK 4N PE, for the connection of copper conductors 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 rail type TS 35.

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

Electrical data

Feed Through Terminal Blocks:

Type	<u>WDK 2,5N</u>	<u>WDK 2,5N V</u>
Max. rated voltage	550 V	550 V
Max. rated voltage (with cross-connectors jumping over)	275 V	275 V
Rated current (at rated conductor cross section)	21 A	21 A
Rated current (with cross-connectors)	21 A	21 A
Rated conductor cross section mm ² (AWG) ...	2,5 (14)	2,5 (14)
Max. conductor cross section mm ² (AWG)	4 (12)	4 (12)
Min. conductor cross section mm ² (AWG)	0,5 (20)	0,5 (20)
Type	<u>WDK 4N</u>	<u>WDK 4N V</u>
Max. rated voltage	550 V	550 V
Max. rated voltage (with cross-connectors jumping over)	275 V	275 V
Rated current (at rated conductor cross section)	28 A	28 A
Rated current (with cross-connectors)	28 A	28 A
Rated conductor cross section mm ² (AWG) ...	4 (12)	4 (12)
Max. conductor cross section mm ² (AWG)	6 (10)	6 (10)
Min. conductor cross section mm ² (AWG)	0,5 (20)	0,5 (20)

Protective Conductor Terminal Blocks:

Type	<u>WDK 2,5N PE</u>	<u>WDK 4N PE</u>
Rated conductor cross section mm ² (AWG) ...	2,5 (12)	4 (12)
Max. conductor cross section mm ² (AWG)	4 (10)	6 (10)
Min. conductor cross section mm ² (AWG)	0,5 (20)	0,5 (20)

Mounting instructions

The Feed Through Terminal Blocks and Protective Conductor Terminal Blocks are suitable for application in enclosures in atmospheres with flammable gases and combustible dust. For flammable gases these enclosures must satisfy the requirements according to EN 50014 and EN 50019. For combustible dust these enclosures must satisfy the requirements according to EN 50281-1-1.

(13)

SCHEDULE

(14)

to EC-Type Examination Certificate KEMA 00ATEX2061 U

Mounting instructions (continued)

In combination with other terminal block series and sizes and if other accessories are used the applicable creepage distances and clearances shall be met.

Regarding the use of end plates, partitions and end brackets the instructions of the manufacturer must be followed.

If smaller cross sections than the rated cross section are used, the belonging lower current has to be laid down in the EC-Type Examination Certificate of the complete apparatus.

The Feed Through Terminal Blocks may be used, based on the self-heating when used at the above mentioned rated current and at ambient temperatures of -50 °C to +40 °C at the mounting position in electrical apparatus, e.g. junction and connection boxes, for temperature classes T6 and T5. When the Terminal Blocks are used in electrical apparatus of temperature classes T1 up to T4, the highest temperature of the insulating material shall not exceed the maximum value of the operating temperature range.

Unused terminals shall be screwed tight.

Routine test

According to EN 50019, Clause 7.1.b in combination with Clause 6.1, a dielectric strength test has to be carried out.

(16) **Report**

No. 2004279

(17) **Special conditions for safe use**

None

(18) **Essential Health and Safety Requirements**

Essential health and safety requirements not covered by standards listed at (9)	
Clause	Subject
1.0.6.b) and d)	Instructions

These essential health and safety requirements are examined and positively judged. The results are laid down in the report listed at (16).

to EC-Type Examination Certificate KEMA No. Ex-00ATEX2061 U

Manufacturer: Weidmüller Interface GmbH & Co.

Address: Klingenbergstraße 16, 32758 Detmold, Germany

Description

In future the Terminal Blocks Type WDK may also be constructed in accordance with the documentation stated below.

The modification concerns the addition of Terminal Block Type WDK 2,5N DU/PE and Type WDK 4N DU/PE.

Electrical data
Feed Through Terminal Blocks

Type	<u>WDK 2,5N DU/PE</u>	<u>WDK 4N DU/PE</u>
Max. rated voltage	550 V	550 V
Max. rated voltage (with cross-connectors jumping over)	275 V	275 V
Rated current (at rated conductor cross section)	21 A	28 A
Rated current (with cross-connectors)	21 A	28 A
Rated conductor cross section mm ² (AWG) ...	2,5 (14)	4 (12)
Max. conductor cross section mm ² (AWG)	4 (12)	6 (10)
Min. conductor cross section mm ² (AWG)	0,5 (20)	0,5 (20)

All other data remains unchanged.


Test documentation
signed

- | | | |
|---------------------------------|---|------------|
| 1. Description (2 pages) | | 17.08.2000 |
| 2. Drawing no. 3 25316, issue 0 |) | |
| 4 31442, issue 0 |) | 15.06.2000 |
| 3 25309, issue 0 |) | |
| 4 31446, issue 0 |) | |
| 3. Samples | | |

Arnhem, 1 September 2000
by order of the Board of Directors of N.V. KEMA



L.M.J. Vries
Certification Manager

Code:  II 2 G D EEx e II

[2005563]

SCHEDULE

(13)

(14)

to EC-Type Examination Certificate KEMA 00ATEX2061 U

(19) **Test documentation**

1. Description (2 pages)		<u>signed</u> 20.06.2000
2. Drawing No.		
3 25319)	
4 31439)	
3 25318)	
4 31440)	
3 25317)	
4 31441)	
3 31435)	
3 31438)	
4 31437)	
3 24707 rev. 6)	15.06.2000
3 25313)	
4 31443)	
3 25310)	
4 31444)	
3 25308)	
4 31445)	
3 31433)	
3 31434)	
4 31436)	
3 28765 rev. 1)	
3 25268)	
4 25275)	12.07.2000
3 21953 rev. 4)	

3. Samples

to EC-Type Examination Certificate KEMA 00ATEX2061 U

Manufacturer: **Weidmüller Interface GmbH & Co**

Address: **Klingenbergstrasse 16, 32758 Detmold, Germany**

Description

The routine dielectric strength tests according to EN 50019, clause 7.1.b may also be conducted using the method as laid down in document no. A_10_07.

All electrical data and mounting instructions remain unchanged.

Report

KEMA No. 2020770.

Arnhem, 19 September 2002
KEMA Quality B.V.



L.M.J. Vries
Certification Manager

to EC-Type Examination Certificate KEMA 00ATEX2061 U**Manufacturer: Weidmüller Interface GmbH & Co****Address: Klingenbergstrasse 16, 32758 Detmold, Germany****Description**

Compliance with the Essential Health and Safety Requirements has now been assured by compliance with EN 60079-0 : 2004 and EN 60079-7 : 2003.

The marking of the components shall include the following:



All other data remain unchanged.

Installation instructions

The Feed Through Terminal Blocks and Protective Conductor Terminal Blocks are suitable for use in enclosures in atmospheres with flammable gases or combustible dust.

For flammable gases these enclosures must satisfy the requirements according to EN 50014 / EN 60079-0 and EN 50019 / EN 60079-7.

For combustible dust these enclosures must satisfy the requirements according to EN 50281-1-1 / EN 61241-0 and EN 61241-1.

Routine tests

The routine dielectric strength tests shall be performed according to EN 60079-7, clause 7.2 or according to the method as laid down in document no. A_10_07.

Test documentation**dated**

Drawing no. 3 31547, issue 8	17.10.2005
3 31549, issue 5	17.10.2005
3 31548, issue 11	17.10.2005
3 31550, issue 3	17.10.2005

Arnhem, 13 December 2005
KEMA Quality B.V.



T. Pijpker
Certification Manager