

# EU-TYPE EXAMINATION CERTIFICATE



**Component intended for use on/in Equipment or Protective System  
Intended for use in Potentially Explosive Atmospheres  
Directive 2014/34/EU**

EU-Type Examination Certificate Number: **DEMKO 15 ATEX 1357U Rev. 1**

Component: **Feed through stud conductor terminals - Type WFF and accessories WTW, WEW, WQL, WZAF**

Manufacturer: **Weidmüller Interface GmbH & Co. KG**

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

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

UL International Demko A/S, notified body number 0539 in accordance with Article 17 of the Council Directive 2014/34/EU of the European Parliament and the Council, dated 26 February 2014, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to 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. **4789062470.1.1**

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN IEC 60079-0:2018**

**EN 60079-7: 2015 +A1:2018**

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.

This EU-Type Examination Certificate relates only to the design and construction of the specified component. Further requirements of the Directive apply to the manufacturing process and supply of this component. These are not covered by this certificate.

The marking of the component shall include the following:

**II 2 G D Ex eb IIC Gb**

**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 component. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all products 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:** 2016-05-17

**Re-issued:** 2020-03-20

**Notified Body**

UL International Demko A/S, Ballerup 5A, 2750 Ballerup, Denmark  
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# Schedule

## EU-TYPE EXAMINATION CERTIFICATE No.

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**Description of Component:**

Feed through terminal blocks type WFF. The wire is attached to the terminal stud using crimped cable lugs and each connection is secured by a hexagonal nut. The type of protection is increased safety, "eb", insulating parts made of Polyamide PA66, with optional accessories, type WAH hoods, type WQL cross-connectors, type WEW end brackets, type WTW partitions for fixing on mounting rails and type WZAF auxiliary/ control line connection.

**Service temperature range:**

-60°C to +100°C

**Types & electrical data**

TYPE	Rated voltage (V)	Rated current (A)	Resistance across terminals (uΩ) top/lower	cross section (mm²)	Cable lug types	Conductor range 1 wire (mm²)	Conductor range for 2 wires (mm²)
WFF 35	1100	125	43	35	DIN 46234 DIN 46235	2,5-35	2,5-35
WFF 35/AH	1100	125	43	35	DIN 46234 DIN 46235	2,5-35	2,5-35
WFF 70	1100	192	32	70	DIN 46234 DIN 46235	2,5-70	2,5-70
WFF 70/AH	1100	192	32	70	DIN 46234 DIN 46235	2,5-70	2,5-70
WFF 120	1100	269	28	120	DIN 46234 DIN 46235	6-120	6-120
WFF 120/AH	1100	269	28	120	DIN 46234 DIN 46235	6-120	6-120
WFF185	1100	353	28	185	DIN 46234 DIN 46235	10-185	10-185
WFF185/AH	1100	353	28	185	DIN 46234 DIN 46235	10-185	10-185
WFF 300	1100	520	20	300	DIN 46234 DIN 46235	25-300	25-300
WFF 300/AH	1100	520	20	300	DIN 46234 DIN 46235	25-300	25-300
WAH 35	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WAH 70	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WAH 120	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WAH 185/300	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WTW WFF 35	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WTW WFF 70	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WTW WFF 120	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WTW WFF 185	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WTW WFF 185/300	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WEW 35/1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WQL 2 WFF35	N/A	125	N/A	N/A	N/A	N/A	N/A
WQL 2 WFF70	N/A	192	N/A	N/A	N/A	N/A	N/A
WQL 2 WFF120	N/A	269	N/A	N/A	N/A	N/A	N/A
WQL 2 WFF185	N/A	353	N/A	N/A	N/A	N/A	N/A
WQL 2 WFF300	N/A	520	N/A	N/A	N/A	N/A	N/A
WZAF 35	690	10	N/A	2,5	N/A	1,5 - 2,5	N/A
WZAF 70	1100	16	N/A	6	N/A	1,5 - 6	N/A
WZAF 120	1100	16	N/A	6	N/A	1,5 - 6	N/A
WZAF 185	1100	16	N/A	6	N/A	1,5 - 6	N/A
WZAF 300	1100	16	N/A	6	N/A	1,5 - 6	N/A

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## Schedule EU-TYPE EXAMINATION CERTIFICATE No. DEMKO 15 ATEX 1357U Rev. 1

### Routine tests:

According to EN 60079-7 clause 7.1 in combination with clause 6.1 a dielectric strength test has to be carried out. The routine tests may be performed on a statistical basis according to ISO 2859-1 with an acceptance quality limit (AQL) of 0,04. Routine test is to be carried out according to Weidmueller procedure "High voltage test" Document -NR: A\_10\_54.

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### Descriptive Documents

The scheduled documents are listed in the report no. provided under item no. [ 8 ] on page 1 of this EU-Type Examination Certificate.

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### Schedule of Limitations:

- The stud terminals 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 60079-0 and EN 60079-7. For combustible dust these enclosures must satisfy the requirements according to EN 60079-0 and EN 60079-31. The enclosure shall be constructed to block all sun and UV light from affecting the terminal blocks. The terminal blocks shall be placed inside a suitable certified IP54 enclosure in type of protection "e" for gas atmosphere. For dust atmosphere the terminal blocks shall be mounted inside a suitable certified IP6x enclosure (EN60079-31) in type of protection "t".
- Under normal operating conditions the temperature rise of the terminal blocks is maximum 40 K, measured at 110% of the maximum permitted rated current. Due to the above mentioned the terminal blocks may be used in apparatus of temperature classes T6 ... T1 as long as the terminal block ambient temperature range is not exceeded. No part of terminal block must exceed 100 °C under any condition.
  - T6 (- 60 °C....+40 °C).
  - T5 (- 60 °C....+55 °C).
  - T4 (- 60 °C....+60 °C).
- When using the type WFF especially with other terminal blocks series or sizes or accessories the requirements for clearance and creepage distances according to table 2 of EN 60079-7 must be observed. Regarding the use of covers, cross-connectors and end brackets the instructions of the manufacturer must be followed.
- For cross connection accessories current rating, resistance across the terminal please refer to the table under "types & electrical rating" above. Details on creepages and clearance values and the required torque values please see Notice to installers.
- 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.
- Unused terminals shall be tightened.

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### Essential Health and Safety Requirements

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

### Additional information

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in Annex III to Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014.

The trademark **Weidmüller**  will be used as the company identifier on the marking label.