



CNEX-GLOBAL

[1] EU-TYPE EXAMINATION CERTIFICATE

[2] Components intended for use on/in equipment or protective Systems intended for use in Potentially Explosive Atmospheres per Directive 2014/34/EU



[3] EU-Type Examination Certificate Number: **CNEX 16 ATEX 0005 U Issue 2**

[4] Components : **Modular terminal blocks models WPD 104 – WPD 109**

[5] Manufacturer : **Weidmueller Interface GmbH & Co KG**

[6] Address : **Klingenbergsstraße 26, Detmold D-32758, Germany**

[7] This Component and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] CNEX-Global B.V., Notified Body number 2614, in accordance with Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this component 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. **21033**.

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

EN IEC 60079-0:2018

EN IEC 60079-7:2015+A1:2018

except in respect of those requirements listed at item 18 of the Schedule.

[10] 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 system.

[11] This EU – Type examination certificate relates only to the design of the specified component. Further requirements of the Directive apply to the manufacture and supply of this component. These are not covered by this certificate.

[12] The marking of the component shall include the following:

Ex II 2G Ex eb IIC Gb

Certification officer : Hou Yandong

Signature:

Date of issue : 2021-05-03

Certification Body: CNEX-Global B.V., Utrechtseweg 310-B38, 6812 AR Arnhem, the Netherlands

This certificate may only be reproduced in its entirety and without any change, including schedule

[13]

[14]

SCHEDULE
EU-TYPE EXAMINATION CERTIFICATE No.
CNEX 16 ATEX 0005 U Issue 2
Report: 21033



[15] Description of component:

The modular terminal blocks models WPD 104 to WPD 109 are power distribution blocks, where one incoming current supply cable is distributed through one connection block over multiple outgoing cable connections. The insulating body is made of polyamide PA66 and the protective cover is made of polycarbonate.

Operating temperature range:

The operating temperature range is limited to -60 °C ... +100 °C

The ambient temperature range is limited to -60 °C ... +40 °C (for T6 applications)

The ambient temperature range is limited to -60 °C ... +55 °C (for T5 applications)

The ambient temperature range is limited to -60 °C ... +60 °C (for T4 applications)

Electrical Data:

Max.rated voltage [V]:	WPD 104	WPD 105	WPD 106	WPD 107	WPD 108	WPD 109
Screw mounting	550	690	550	880	880	880
TS35 mounting	550	690	880	440	1100	1100
For Busbar (Flexibar) with Screw Mounting	NA	NA	550	NA	880	880
For Busbar (Flexibar) with TS35 mounting	NA	NA	690	NA	1100	1100

Rated incoming currents

Model:	WPD 104	WPD 105	WPD 106	WPD 107	WPD 108	WPD 109
Current [A]:	101	125	160	232	250	353

SCHEDULE
EU-TYPE EXAMINATION CERTIFICATE No.
CNEX 16 ATEX 0005 U Issue 2
Report: 21033



Rated conductor cross sections:

Model	Wire type	Incoming connection			Outgoing connections		
		Size [mm ²]			Size [mm ²]		
		left	Center	Right	Top level	Middle level	Bottom level
WPD 104	Solid	1x	-	1x	3x	-	2x
		2.5...25		1.5...16	1.5...10		1.5...16
WPD 104	Stranded	1x	-	1x	3x	-	2x
		2.5...25		1.5...16	1.5...10		1.5...16
WPD 104	Flexible with Ferrule	1x		1x	3x	-	2x
		1.5...16		1.5...10	1.5...6		1.5...16
WPD 105	Solid	1x	-	1x	3x	-	2x
		4...35		1.5...16	1.5...16		2.5...25
WPD 105	Stranded	1x	-	1x	3x	-	2x
		4...35		1.5...16	1.5...16		2.5...25
WPD 105	Flexible with Ferrule	1x	-	1x	3x	-	2x
		2.5...25		1.5...10	1.5...16		1.5...16
WPD 106	Solid	-	1x	-	3x	-	2x
			10...70		1.5...16		2.5...25
WPD 106	Stranded	-	1x	-	3x	-	2x
			10...70		1.5...16		2.5...25
WPD 106	Flexible with Ferrule	-	1x	-	3x	-	2x
			6...50		1.5...16		1.5...16
WPD 106	Flexible busbar	-	15.5 x 5 mm ²	-	3x	-	2x
					1.5...16		2.5...25
WPD 107	Solid	1x	1x	1x	4x	-	4x
		4...35	16...95	4...35	2.5...25		2.5...25
WPD 107	Stranded	1x	1x	1x	4x	-	4x
		4...35	16...95	4...35	2.5...25		2.5...25
WPD 107	Flexible with Ferrule	1x	1x	1x	4x	-	4x
		2.5...25	10...70	2.5...25	1.5...16		1.5...16
WPD 108	Solid	-	1x	-	3x	4x	2x
			35...120		2.5...25	2.5...25	4...35
WPD 108	Stranded	-	1x	-	3x	4x	2x
			35...120		2.5...25	2.5...25	4...35

This certificate may only be reproduced in its entirety and without any change, including schedule

SCHEDULE
EU-TYPE EXAMINATION CERTIFICATE No.
CNEX 16 ATEX 0005 U Issue 2
Report: 21033



WPD 108	Flexible with Ferrule	-	1x 25...95	-	3x 1.5...16	4x 1.5...16	2x 2.5...25
WPD 108	Flexible busbar	-	24 x 10 mm ²	-	-	-	-
WPD 109	Solid	-	95...185	-	3x 2.5...25	4x 2.5...25	2x 4...35
WPD 109	Stranded	-	70...185	-	3x 2.5...25	4x 2.5...25	2x 4...35
WPD 109	Flexible with Ferrule	-	70...150	-	3x 1.5...16	4x 1.5...16	2x 2.5...25
WPD 109	Flexible busbar	-	24 x 10 mm ²	-	-	-	-

Mounting Instructions:

See manufacturer's instructions.

Installation Instructions:

See manufacturer's instructions.

Routine tests:

Routine dielectric strength tests conform EN 60079-7 cl. 7.1 are applicable.

[16] Descriptive Documents:

Detailed in the Test Report Cover document. (ref. P21033IA-CS).

[17] Schedule of Limitations:

The modular terminal blocks models WPD 104 to WPD 109 shall always be installed inside suitable certified enclosures. For use in flammable gases these enclosures must satisfy the requirements according to EN/IEC 60079-0 and EN/IEC 60079-7. For use in combustible dust these enclosures must satisfy the requirements according to EN/IEC 60079-0 and EN/IEC 60079-31.

When installed, all connections, even if unused, shall be tightened with the torques specified in the manufacturer's instructions.

The transparent covers are always to be applied on the terminal blocks.

[13]

[14]

SCHEDULE

EU-TYPE EXAMINATION CERTIFICATE No.

CNEX 16 ATEX 0005 U Issue 2

Report: 21033



[17] Schedule of Limitations (continued):

For each modular terminal block, there shall always be only one cable installed in the incoming connection side of the terminal block.

Multiple wires installed into one connection are not allowed.

When combined with other terminal block series and accessories, the applicable creepage and clearance distances shall be observed.

The insulation material has a limiting temperature of +100 °C.

The temperature rise in the terminals does not exceed 40 K at 110 % of the rated current.

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 (EN/IEC 60079-31) in type of protection 't'.

Under normal operating conditions the temperature rise of the terminal blocks is maximum 40 K, measured at 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.

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.

The resistance across the terminals, at rated conductor cross-section, are given as follows:

Model:	WPD 104	WPD 105	WPD 106	WPD 107	WPD 108	WPD 109
contact resistance [mOhm]	< 0,32	< 0,26	< 0,2	< 0,14	< 0,13	< 0,1

[13]

[14]

SCHEDULE
EU-TYPE EXAMINATION CERTIFICATE No.
CNEX 16 ATEX 0005 U Issue 2
Report: 21033



[18] Essential Health and Safety Requirements:

The Essential Health and Safety Requirements are covered by the standards listed at item [9].

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.

Additional Information:

None.

Changes for issue 01:

Construction changes for WPD 108 and WPD 109.

Changes for issue 02:

Update of standards to EN IEC 60079-0:2018 and EN IEC 60079-7:2015+A1:2018.

Correction of ambient temperature range to -60 °C ... +60 °C (for T4 applications).