1 **UNITED KINGDOM CONFORMITY ASSESSMENT**

UK TYPE EXAMINATION CERTIFICATE

2 **Product Intended for use in Potentially Explosive Atmospheres**
UKSI 2016:1107 (as amended by UKSI 2019:696) – Schedule 3A, Part 1

3 Type Examination Certificate Number: **ExVeritas 21UKEX0918U** Issue: **0**

4 Product: Modular Terminal Blocks models WPD x3x

5 Manufacturer: Weidmueller Interface GMBH & Co KG

6 Address: Klingenbergstraβe 26
Detmold D-32758
Germany

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

8 ExVeritas Limited Approved Body number 2585, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended by UKSI 2019:696), certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations.

9 Compliance with the applicable 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 section 16 of the schedule to this certificate.

10 If 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 the basis for certification of an equipment or protective system.

11 This TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the equipment shall include the following:

Ex II 2 G Ex eb IIC Gb

UKAS PRODUCT CERTIFICATION
No. 8613

On behalf of ExVeritas

S Clarke CEng MSc FIET
Managing Director

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Schedule

13 Description of Product

The modular terminal blocks models WPD 130/131/132/133/230/231/232/233 and 330 are power distribution blocks, where one incoming current supply cable is distributed through one connection block over or multiple outgoing cable connections. The insulating body and the protective cover are made of polyamide (Latamid 6H2G).

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]:

Model:	WPD130	WPD131	WPD132	WPD133	WPD230	WPD231	WPD232	WPD233	WPD330
Screw mounting	880	880	1100	1100	880	880	1100	1100	880
TS35 mounting	880	880	1100	1100	880	880	1100	1100	880

Rated currents:

Model:	WPD130	WPD131	WPD132	WPD133	WPD230	WPD231	WPD232	WPD233	WPD330
Current [A]:	150	232	353	520	150	232	353	520	150

Rated conductor cross sections:

Model	Wire type			Tightening torque [Nm] (see instructions)
	Solid [mm^2]	Stranded [mm^2]	Flexible with ferrule [mm^2]	
WPD 130/230/330	6-10	6-10	4-10	6-10
WPD 130/230/330	16-25	16-25	16-25	8-10
WPD 130/230/330	35-50	35-50	35	10
WPD 130/230/330	10-1/0 AWG	10-1/0 AWG	12-2/0 AWG	16.9
WPD 131/231	16-35	16-35	10-25	14
WPD 131/231	50-95	50-95	35-70	19
WPD 131/231	6-3/0 AWG	6-3/0 AWG	8-2/0 AWG	22.6
WPD 131/231 Aux. connection	-	1.5-10	1.5-6	1.2
WPD 131/231 Aux. connection	-	16-8 AWG	16-10 AWG	1.2
WPD 132/232	95-185	95-185	780-150	25
WPD 132/232	3/0 AWG – 350 kcmil	3/0 AWG – 350 kcmil	2/0 AWG – 300 kcmil	28.2
WPD 132/232 Aux. connection	1.5-10	1.5-10	1.5-6	1.2
WPD 132/232 Aux. connection	16-8 AWG	16-8 AWG	16-10 AWG	1.2
WPD 133/233	150-300	150-300	120-240	45
WPD 133/233	3/0 AWG – 350 kcmil	3/0 AWG – 350 kcmil	2/0 AWG – 300 kcmil	28.2
WPD 133/233 Aux. connection	1.5-10	1.5-10	1.5-6	1.2
WPD 133/233 Aux. connection	16-8 AWG	16-8 AWG	16-10 AWG	1.2

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14 Descriptive Documents

14.1 Associated Report and Certificate History:

Report Number	Cert Issue Date	Issue	Comment
R3409/A/1	22/10/2021	0	Initial issue of the Prime Certificate

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15 Schedule of Limitations

- The Modular terminal blocks model WPD 130/230/330/131/231/132/232/133/233 and 330 shall always be installed inside suitable certified enclosures. For use in flammable gases these enclosures must satisfy the requirements conform EN 60079-0 and EN 60079-7. For use in combustible dust these enclosures must satisfy the requirements conform EN 60079-0 and EN 60079-31.
- When installed, all connections, even if unused, shall be tightened with the torques specified in the manufacturer's instructions.
- 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 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:	WPD130	WPD131	WPD132	WPD133	WPD230	WPD231	WPD232	WPD233	WPD330
Contact resistance [mOhm]	<0.03	<0.02	<0.02	<0.02	<0.03	<0.02	<0.02	<0.02	<0.03

Routine tests:

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

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16 Essential Health and Safety Requirements (Regulations Schedule 1)

Essential Health and Safety Requirements are addressed by the standards listed in section 9 and where required the report listed in section 14.1

The manufacturer shall inform ExVeritas of any modifications to the design of the product described by this schedule.

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