



1 TYPE EXAMINATION CERTIFICATE

2 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

3 Certificate Number: CSANe 21ATEX3152X Issue: 0

4 Equipment: PRO DC BUFFER Series Modules

5 Applicant: Weidmüller Interface GmbH & Co. KG

6 Address: Klingenbergstrasse 26
32758 Detmold
Germany

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

8 CSA Group Netherlands B.V., certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design of Category 3 equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 14.2.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule to this certificate, has been assured by compliance with the following documents:

EN IEC 60079-0:2018 EN IEC 60079-7:2015/A1:2018

10 If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to Specific Conditions of Use identified in the schedule to this certificate.

11 This Type Examination Certificate relates only to the design of the specified equipment, and not to specific items of equipment subsequently manufactured. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment.

12 The marking of the equipment shall include the following:



II 3G

Ex ec IIC T4 Gc

Ta = -25°C...+70°C (> +60°C Derating :2.5%/K)

Project Number 80085086

Signed: J A May

Title: Director of Operations

CSA Group Netherlands B.V.
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SCHEDULE

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13 DESCRIPTION OF EQUIPMENT

The PRO DC BUFFER series modules are assessed for type of protection "increased safety", Ex ec. These modules are built-in devices with degree of protection IP20 and shall be mounted within a tool-secured suitable-certified enclosure providing a degree of protection not less than IP54.

The enclosure of PRO DC BUFFER modules is made of Al1060 and SPCC and contains two PCBs. The front panel has one LED which indicates the status of the module, and one switch which cannot be adjusted unless area is known to be non-hazardous.

This module is a supplementary device for regulated DC 24V power supply, and it is intended to continue to supply the connected loads for a certain time in the event of a brief failure of the DC 24V power supply. It has two output modes, selected by the switch:

The "22V DC" mode: When the output voltage is less than 22V, the DC buffer is started and output voltage will remain at 22V until the end of the buffer.

The "Vin-1V DC" mode: When the output voltage drops by more than 1V, the DC buffer is started and the output voltage will remain Vin-1V until the buffer ends. In this mode, the minimum output voltage is 22V.

Model	Input		Output		Buffer output	Buffer time	Temperature
	VDC	A	VDC	A			
PRO DC BUFFER 24V 20A	24V	26A	24V	20A	22V/Vin-1V, 20A; Power boost 25A (≤45°C)	20A,0.2S	-25°C...+70°C (> +60°C Derating:2.5%/K)
PRO DC BUFFER 24V 40A	24V	46A	24V	40A	22V/Vin-1V, 40A, Power boost 45A (≤45°C)	40A,0.2S	-25°C...+70°C(> +60°C Derating:2.5%/K)

14 DESCRIPTIVE DOCUMENTS

14.1 Drawings

Refer to Certificate Annexe.

14.2 Associated Reports and Certificate History

Issue	Date	Report number	Comment
0	07 September 2021	R80085086A	The release of the prime certificate.

15 SPECIFIC CONDITIONS OF USE (denoted by X after the certificate number)

- 15.1 The equipment shall be mounted within a tool-secured suitably-certified enclosure providing a degree of protection not less than IP54 in accordance with EN IEC 60079-0 and EN 60079-7.
- 15.2 The ambient temperature of -20°C to +70°C applies to the enclosure internal air surrounding the equipment.
- 15.3 The final enclosure must bear the following warning: "DO NOT CONNECT OR DISCONNECT WHEN ENERGIZED UNLESS AREA IS KNOWN TO BE NON-HAZARDOUS" and "DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT"

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16 ESSENTIAL HEALTH AND SAFETY REQUIREMENTS OF ANNEX II (EHSRs)

The relevant EHSRs that are not addressed by the standards listed in this certificate have been identified and individually assessed in the reports listed in Section 14.2.

17 CONDITIONS OF MANUFACTURE

17.1 The use of this certificate is subject to the Regulations Applicable to Holders of Sira/CSA Certificates.

17.2 Holders of Type Examination Certificates are required to comply with the conformity to type requirements defined in Article 13 of Directive 2014/34/EU.

17.3 Routine tests on production. At the conclusion of manufacture, and before shipping, each unit shall be subjected to a dielectric strength test.

For models PRO DC BUFFER 24V 20A and PRO DC BUFFER 24V 40A, a potential of 500V ac r.m.s. shall be applied between its all terminals and the metal enclosure, for a period of at least 60 seconds, without breakdown.

Notes:

1. A potential of 700V dc may alternatively be applied for a period of at least 60 seconds.
2. As an alternative, a test shall be carried out at 1.2 times the test voltage, but maintained for at least 100ms.

Certificate Annexe



Certificate Number: CSANe 21ATEX3152X

Equipment: PRO DC BUFFER Series Modules

Applicant: Weidmüller Interface GmbH & Co. KG

Issue 0

Drawing	Sheets	Rev.	Date (Stamp)	Title
73699	1 of 1	1	23 Jun 21	PRO DC BUFFER 24V 20A General assembly drawing
R07040115-ZP	1 of 1	A00	23 Jun 21	PRO DC BUFFER 24V 20A EXPLODED
73705	1 of 1	3	14 Jul 21	TPSD PRO DC BUFFER 24V 20A Label rating
73877	1 to 12	0	23 Jun 21	PCB 20A BOARD DC Buffer Printed Circuit Board
73881	1 of 1	0	23 Jun 21	PCBA 20A BOARD DC BUFFER Schematic diagram
73883	1 to 5	0	23 Jun 21	PCBA 20A MAIN BOARD DC BUFFER Schematic diagram
R07040115	1 to 2	A01	23 Jun 21	PRO DC BUFFER 24V 20A BOM
73700	1 of 1	1	23 Jun 21	PRO DC BUFFER 24V 40A General assembly drawing
R07040114-ZP	1 of 1	A00	23 Jun 21	PRO DC BUFFER 24V 40A EXPLODED
73710	1 of 1	3	14 Jul 21	TPSD PRO DC BUFFER 24V 40A Label rating
73879	1 to 12	0	23 Jun 21	PCB 40A BOARD DC Buffer Printed Circuit Board
73880	1 of 1	0	23 Jun 21	PCBA 40A BOARD DC BUFFER Schematic diagram
73882	1 to 5	0	23 Jun 21	PCBA 40A MAIN BOARD DC BUFFER Schematic diagram
R07040114	1 to 2	A01	23 Jun 21	PRO DC BUFFER 24V 40A BOM
73876	1 to 13	0	23 Jun 21	PCB Main Board DC Buffer Printed Circuit Board
450093	1 of 1	2	23 Jun 21	SERIAL NUMBER / DATE CODE

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