



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx CSAE 21.0011X	Page 1 of 3	Certificate history:
Status:	Current	Issue No: 0	
Date of Issue:	2021-07-30		
Applicant:	Weidmüller Interface GmbH & Co. KG Klingenbergstrasse 26 Detmold 32758 Germany		
Equipment:	PRO DC BUFFER Series Modules		
Optional accessory:			
Type of Protection:	Increased Safety "ec"		
Marking:	Ex ec IIC T4 Gc Ta = -25°C...+70°C (> +60°C Derating:2.5%/K)		

Approved for issue on behalf of the IECEx
Certification Body:

Neil Jones

Position:

Certification Manager

Signature:
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

CSA Group Testing UK Ltd
Unit 6, Hawarden Industrial Park
Hawarden, Deeside CH5 3US
United Kingdom





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Manufacturer: **Weidmüller Interface GmbH & Co. KG**
Klingenbergstrasse 26
Detmold 32758
Germany

Additional
manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[GB/CSAE/ExTR21.0033/00](#)

Quality Assessment Report:

[NL/DEK/QAR12.0052/07](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

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.

Refer to Annexe for additional information and Conditions of Manufacture.

SPECIFIC CONDITIONS OF USE: YES as shown below:

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 IEC 60079-0 and IEC 60079-7.
2. The ambient temperature of -20°C to +70°C applies to the enclosure internal air surrounding the equipment.
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"

Annex:

[IECEx CSAE 21.0011X Annexe Issue 0.pdf](#)

Annexe to: IECEx CSAE 21.0011X Issue 0

Applicant: Weidmüller Interface GmbH & Co. KG

Apparatus: PRO DC BUFFER Series Modules



Product Name/Model Number

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 ($\leq 45^{\circ}\text{C}$)	20A, 0.2S	-25°C...+70°C ($> +60^{\circ}\text{C}$ Derating:2.5%/K)
PRO DC BUFFER 24V 40A	24V	46A	24V	40A	22V/Vin-1V, 40A, Power boost 45A ($\leq 45^{\circ}\text{C}$)	40A, 0.2S	-25°C...+70°C ($> +60^{\circ}\text{C}$ Derating:2.5%/K)

Conditions of Manufacture

1. 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. should 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.