



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 TPS 17.0006X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 1	Issue 0 (2017-12-20)
Date of Issue:	2022-05-17		
Applicant:	Weidmüller Interface GmbH & Co. KG Klingenbergstraße 26 Detmold 32758 Germany		
Equipment:	Redundancy module		
Optional accessory:			
Type of Protection:	Increased safety "e", Type of protection "n"		
Marking:	Ex ec nC IIC T4 Gc		

Approved for issue on behalf of the IECEx
Certification Body:

Frank Zhu, MSc.

Position:

Technical Certifier

Signature:
(for printed version)

Date:
(for printed version)

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:

TÜV SÜD Product Service GmbH
Ridlerstr. 65
D-80339 Munich
Germany



Product Service



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

Manufacturing locations: **Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 26
Detmold 32758
Germany

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 60079-15:2017](#) Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:5.0

[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:

[DE/TPS/ExTR22.0021/00](#)

Quality Assessment Reports:

[NL/DEK/QAR12.0052/05](#)
[NL/DEK/QAR12.0052/08](#)

[NL/DEK/QAR12.0052/06](#)

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



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The equipment is redundancy module for redundant power system with integrated alarm relay and decoupling MOSFETs. It could be used to this area: Transportation redundancy (Shipbuilding), machinery, process.

The equipment is protected by Ex 'ec' and the relay inside is protected by Ex 'nC' sealed device.

Rated voltage: Input voltage: 24V d.c., operational voltage: 10 to 32V d.c.

Rated current:

Model PRO RM 10: input 2×10A, output 1×20A, when operational temperature between 60°C and 70°C, derating 2.5%/K;

Model PRO RM 20: input 2×20A, output 1×40A, when operational temperature between 60°C and 70°C, derating 2.5%/K;

Model PRO RM 40: input 2×40A, output 1×80A, when operational temperature between 60°C and 70°C, derating 2.5%/K.

Operating temperature: -40°C to +70°C

The equipment certified is documented in the confidential certification file. Alternate variations of components are subject to additional assessment.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC60664-1.
2. The equipment shall be installed in an enclosure that provides a minimum ingress protection of IP 54 in accordance with EN 60079-0.
3. The installation must be installed according the requirements of EN 60079-14:latest version (or its National equivalent standard).
4. The ambient temperature (Tamb), as specified above, has to be seen as the temperature of the surrounding atmosphere where the equipment is installed at (=Operating temperature).
5. Power derating off 2.5%/K is required when ambient temperature between +60°C and +70°C.

Routine test:

100% routine test has to be done by manufacturer.

Dielectric strength test: 600V d.c. between live part and enclosure, 100ms. No breakdown shall occur.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Revision	Description	Reference Report Nr.	Issue date
Issue No. 0	First issue	64.105.17.04001.01	2017-12-20
Issue No. 1	Update applied standard version	64.105.17.04001.02	2022-05-16