



Product Service

(1) **Type Examination Certificate**

(2) Equipment or Protective Systems Intended for Use in Potentially Explosive Atmospheres – **Directive 2014/34/EU**

(3) Type Examination Certificate Number:



TPS 22 ATEX 033299 0362 X Rev. 01

(4) Equipment or Protective System: Redundancy module -
Type: PRO RM 10, PRO RM 20, PRO RM 40

(5) Manufacturer: Weidmüller Interface GmbH & Co. KG

(6) Address: Klingenbergstr. 26, 32758 Detmold, GERMANY

(7) This equipment or protective system and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) TÜV SÜD Product Service GmbH 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 Annex II to the Directive.

The examination and test results are recorded in the confidential reports with no. 64.105.17.04000.02.

(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 EN 60079-15:2010

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

(12) The marking of the product shall include the following:



II 3G Ex ec nC IIC T4 Gc

Certification Body

München, 29.03.2022

Ing. Frank Zhu, MSc.

:

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Certificates without signature shall not be valid. The Certificates may only be circulated in full including its schedule(s). Extracts or alterations are subject to approval by TÜV SÜD Product Service GmbH. In case of dispute, the German text shall prevail. The document is administrated under the following number: EX8A 033299 0362 Rev. 01

Doc. Name Temp-Exp-EG-TPS-Type-Cert-Rev. 02

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Schedule



Product Service

Type Examination Certificate no.

TPS 22 ATEX 033299 0362 X Rev. 01

Certificate History

Revision:	Description:	Report no.:	Issue Date:
Rev. 00	First issue.	64.105.17.04000.01	13.10.2017
Rev. 01	Standard version update.	64.105.17.04000.02	29.03.2022

(15) Description of equipment:

The equipment is Category 3 equipment, the Ex marking is: Ex ec nC IIC T4 Gc.

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

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.

See the user instructions for further details.

Model designation:

PRO RM xx
↑ ↑
I II

I – Product series

PRO RM: PRO RM series

II – Maximum input current

10: 10A

20: 20A

40: 40A

Model difference:

There are three models: PRO RM 10, PRO RM 20 and PRO RM 40. The difference between three models are the maximum input and output current.

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Doc. Name: TempE/INBO-TPS-7-ge-Cert-Rev. 02

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Product Service

Technical data:

Model	PRO RM 10, PRO RM 20, PRO RM 40
Rated voltage:	Input / operational voltage: 24V d.c. / 10 to 32V d.c.
Rated current:	PRO RM 10: input 2×10A, output 1×20A, when operational temperature between 60°C and 70°C, derating 2.5%/K; PRO RM 20: input 2×20A, output 1×40A, when operational temperature between 60°C and 70°C, derating 2.5%/K; 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
Supply connection:	Lead wire

Warning label:

N/A

Installation instruction:

See installation instructions provided by the manufacturer and part of this certification.

See also (17) Special conditions for safe use.

(16) Test report(s): 64.105.17.04000.02

Routine tests:

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.

Document List:

File no.:	Description:	Pages:	Rev:	Date:
DE PA 5200 170906 002	EU Declaration of conformity	2	Iss 01	2017-10-10
-	PRO RM 10 technical description	13	V02	2017-04-20
-	PRO RM 20 technical description	12	V02	2017-04-21
-	PRO RM 40 technical description	13	V02	2017-04-20
-	PRO RM 10 nameplate	2	V01A	2017-06-27
-	PRO RM 20 nameplate	2	V01A	2017-06-27

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Doc. Name: TempEN/BSG-TPS-Type-Exam-Rev. 02

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Type Examination Certificate no.

TPS 22 ATEX 033299 0362 X Rev. 01



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File no.:	Description:	Pages:	Rev:	Date:
-	PRO RM 40 nameplate	2	V01A	2017-06-27
2486350000	PRO RM 10 user manual	1	/	2018-01
2486360000	PRO RM 20 user manual	1	/	2018-01
2486370000	PRO RM 40 user manual	1	/	2018-01
2486090000	PRO RM 10 drawing 1	1	V02	2017-07-01
2486090000	PRO RM 10 drawing 2	1	V02	2017-07-01
2486100000	PRO RM 20 drawing 1	1	V02	2017-07-01
2486100000	PRO RM 20 drawing 2	1	V02	2017-07-01
2486110000	PRO RM 40 drawing 1	1	V02	2017-07-01
2486110000	PRO RM 40 drawing 2	1	V02	2017-07-01
Q565V00A	PRO RM 10 circuit diagram	1	V00A	2016-11-03
Q566V00A	PRO RM 20 circuit diagram	2	V00A	2016-11-02
Q567V00A	PRO RM 40 circuit diagram	1	V00A	2016-11-02
-	PRO RM 10 PCB layout	4	V0	2017-08-02
-	PRO RM 20 PCB layout	4	V0	2017-08-02
-	PRO RM 40 PCB layout	4	V0	2017-08-02
-	PRO RM10,20,40-CDF-V00	3	V0	2017-06-20

A copy of the full documentation is kept confidentially at TÜV SÜD.

(17) Special conditions for safe use:

1. The equipment shall only be used in an area of at least pollution degree 2, as defined in EN 60664-1.
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 (T_{amb}), 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.

(18) Essential health and safety requirements:

Assured by compliance with standards set out in (9).

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