



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

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

Certificate No.: IECEx BVS 09.0043X issue No.:2

Status: **Current**

Certificate history:
Issue No. 2 (2013-7-8)
Issue No. 1 (2010-4-22)
Issue No. 0 (2009-8-12)

Date of Issue: **2013-07-08** Page 1 of 4

Applicant: **R. STAHL Schaltgeräte GmbH**
Am Bahnhof 30
74638 Waldenburg
Germany

Electrical Apparatus: **Fieldbus Power Supply type 9412/0*-3*0-1***
Optional accessory:

Type of Protection: **Equipment protection by type of protection "n", Equipment protection by intrinsic safety "i"**

Marking: Ex nA nC IIC T4 Gc resp.
Ex nAc nCc IIC T4

Approved for issue on behalf of the IECEx Certification Body: Dr. F. Eickhoff

Position: Deputy Head of Certification Body

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

DEKRA EXAM GmbH
Dinnendahlstrasse 9
44809 Bochum
Germany

 **DEKRA**
DEKRA EXAM GmbH



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Manufacturer: **R. STAHL Schaltgeräte GmbH**
Am Bahnhof 30
74638 Waldenburg
Germany

Additional Manufacturing location
(s):

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 electrical apparatus 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 : 2011 Edition: 6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition: 6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-15 : 2010 Edition: 4	Explosive atmospheres - Part 15: Equipment protection by type of protection "n"

*This Certificate **does not** indicate compliance with electrical 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/BVS/ExTR09.0039/02](#)

Quality Assessment Report:

[DE/BVS/QAR10.0002/03](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Description

The electronic components of the Fieldbus power supply are soldered on an insulating plate mounted inside a plastic housing. The input circuits are galvanically separated from each other as from the output circuits and from the power supply circuit.

Parameters

See Annex

Model/type reference

See Annex

CONDITIONS OF CERTIFICATION: YES as shown below:

The Fieldbus power supply has to be mounted inside an enclosure in type of protection nA according to IEC 60079-15.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

The Fieldbus Power Supply has been assessed in acc. with the actual standard versions; a modified marking is the result.



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Model/type reference

Fieldbus Power Supply Type 9412/0*-3*0-1*

- 0 = Terminator, activated
- 1 = Terminator, switchable

- 0 = Project version
- 1 = variant with error message
- 2 = variant with integrated diagnosis

- 0 = Trunk, voltage limited in acc. with ic to U_o = 30.4 V
- 1 = Trunk, voltage limited in acc. with ic to U_o = 17.3 V
- 2 = Trunk, voltage limited in acc. with ic to U_o = 23.7 V

Parameters

1	Input (terminals V003:7 and V003:9 and pac-Bus V007)				
	Rated voltage		DC	18 - 32	V
	Max. voltage	Um	DC	32	V
	Nominal current				
	for type 9412/00-3*0-1*		@ 18 V	1	A
			@ 24 V	0.74	A
			@ 32 V	0.56	A
	for type 9412/01-3*0-1*		@ 18 V	0.54	A
			@ 24 V	0.41	A
			@ 32 V	0.31	A
	for type 9412/02-3*0-1*		@ 18 V	0.74	A
			@ 24 V	0.56	A
			@ 32 V	0.42	A
2	Signalling relay (terminals V003:8 and V003:9 and pac-Bus V007)				
	Output voltage		AC/DC	30	V
	Max. voltage	Um	AC/DC	32	V
	Output current			100	mA
3	Communication interface for redundancy mode (terminals V002:4 and V002:5)				
	Output voltage		DC	5	V
	Max. voltage	Um	DC	32	V
	Output current			5	mA



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- 4 Output terminals V004:10 (Trunk +), 11 (Trunk -), 12 (shield)
terminals V005:13 (Host +), 14 (Host -), 15 (shield)
pins V001:1 (bus-carrier, +), 2 (bus-carrier, -), 3 (bus-carrier, Shield)
Output current 500 mA
- for type 9412/00-3*0-1*
Nom. output voltage DC 28 V
Max. output voltage Uo DC 30.4 V
- for type 9412/01-3*0-1*
Nom. output voltage DC 15 V
Max. output voltage Uo DC 17.3 V
- for type 9412/02-3*0-1*
Nom. output voltage DC 21.4 V
Max. output voltage Uo DC 23.7 V
- The voltage limitation has been realized in acc. with the standard IEC 60079-11:2011 for a level of protection Ex ic.
- 5 Ambient temperature range Ta -20 °C up to +70 °C