



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 09.0042X issue No.:3

Status: **Current**

Date of Issue: **2015-10-01** Page 1 of 4

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

Electrical Apparatus: **bus- carrier type 9419/0**_***_******
Optional accessory:

Type of Protection: **Equipment protection by type of protection "n"**

Marking: Ex nA nC IIC T4 Gc
or
Ex nAc nCc IIC T4

Approved for issue on behalf of the IECEx Certification Body: H.-Ch. Simanski

Position: Head of Certification Body

Signature:
(for printed version)

Date:

Certificate history:

Issue No. 3 (2015-10-1)

Issue No. 2 (2011-8-26)

Issue No. 1 (2011-2-17)

Issue No. 0 (2009-8-12)

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





IECEX Certificate of Conformity

Certificate No.: IECEx BVS 09.0042X

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Page 2 of 4

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 Explosive atmospheres - Part 0: General requirements
Edition: 6.0

IEC 60079-15 : 2010 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition: 4

*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/ExTR09.0040/02](#)

Quality Assessment Report:
[DE/BVS/QAR10.0002/06](#)



IECEX Certificate of Conformity

Certificate No.: IECEx BVS 09.0042X

Date of Issue: 2015-10-01

Issue No.: 3

Page 3 of 4

Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Model/type reference:

See Annex

Description

The bus-Carrier, which will be mounted inside an enclosure that is in accordance with IEC 60079-15, is used to be connected to the separately certified Fieldbus Power Supply type 9412.
The Host and Trunk circuits are plugged in voltage limited per type of protection Ex ic by the Fieldbus Power Supply type 9412/0*-3*0-1* and has a slot for a separately certified Diagnosis Communication Module type 9415. The bus-Carrier type 9419/0**-*f-**** provides galvanic separation per type of protection Ex ic between the Host and Trunk circuits and the non-intrinsically safe circuits.

The bus-carrier gets a variation (type 9419/**-LD*-*f-****), which can be executed with one or two linking device(s) type FG-200 ***/** (IECEX BVS 15.0055X), marking Ex nA IIC T4 Gc.

Parameters

See Annex

CONDITIONS OF CERTIFICATION: YES as shown below:

The bus - Carrier has to be mounted inside an enclosure in type of protection Ex nA according to IEC 60079-15.



IECEx Certificate of Conformity

Certificate No.: IECEx BVS 09.0042X

Date of Issue: 2015-10-01

Issue No.: 3

Page 4 of 4

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

The bus-Carrier has been assessed in acc. with the current standard version IEC 60079-0:2011 (Ed. 6).
The bus-carrier gets a variation (type 9419/**-LD*-****), which can be executed with one or two linking device(s) type FG-200 ***/** (IECEx BVS 15.0055X), marking Ex nA IIC T4 Gc



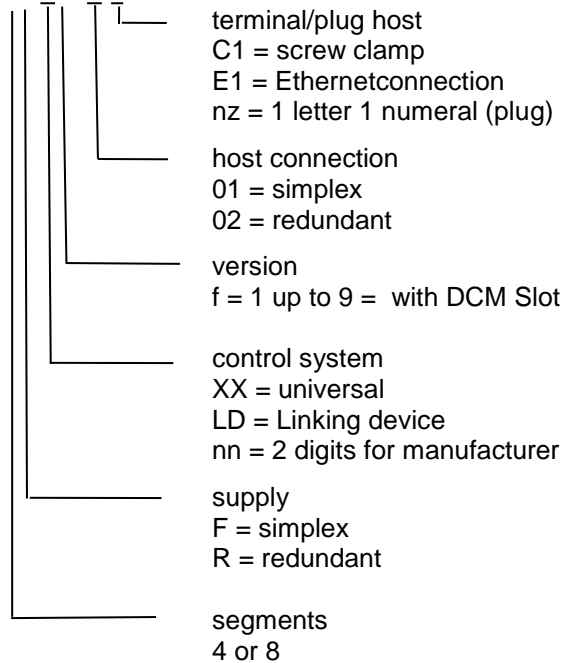
IECEX Certificate of Conformity



Certificate No.: IECEx BVS 09.0042X, issue 3
Annex
Page 1 of 2

Model/type reference:

bus - Carrier type 9419/0**_***_****



Parameters

1.	Auxiliary power input				
	Terminal marking		primary redundant		pri 1+, 2- red 3+, 4-
	Contact position at the pac-bus 1 (+)and 2 (-)				
	Rated voltage	DC	24		V (19...32 V DC)
	Rated current		8		A
	Max. voltage	U _m DC	32		V
2.	Power-fail-signalling relay				
	Terminal marking PF 5, 6				
	Rated voltage	AC/DC	30		V
	Rated current		100		mA
	Max. voltage	U _m DC	32		V
3.	Signalling relay				
	Terminal marking Dia 7, 8				
	Contact position at the pac-bus 3 and 4				
	Rated voltage	AC/DC	30		V
	Rated current		100		mA
	Max. voltage	U _m DC	32		V
4.	Connections at host and trunk				
	Terminal marking Segment x Host +,- Trunk +,-				
	Rated voltage	DC	≤ 30		V
	Rated current		≤ 1000		mA



IECEX Certificate of Conformity



Certificate No.: **IECEX BVS 09.0042X, issue 3**
Annex
Page 2 of 2

The max. voltage U_o in acc. with level of protection Ex ic and the rated voltage will be defined by the separately certified Fieldbus Power Supply (FPS)variant which is connected to the bus carrier. The nominal current is dependant on the mode of operation and the built-in conditions. The Host- and Trunk circuits are galvanically separated from the non-intrinsically safe circuits in acc. with level of protection Ex ic.

5. for type 9419/0**-LD*-** ** at each linking device additionally.

Power supply circuit (terminals 1 – 3 or Rail Power Supply L+ and GND)		
Nominal voltage	DC	18...32 V
Power consumption		< 5.6 W

Redundancy Link circuit (terminals 4,5,6)		
Nominal voltage	DC	up to 32 V

Ethernet Ports (connectors ETH1, ETH2)		
Nominal voltage	DC	up to 32 V

Fieldbus circuits (terminals 7,8,9 and 10,11,12 and 13,14,15 and 16,17,18)		
Nominal voltage	DC	24/32 V

6. Ambient temperature range	T_a	
for types 9419/0**-XX*-** ** and 9419/0**-nn*-** **		-20 °C up to+70 °C
for type 9419/0**-LD*-** **		-20 °C up to see manual