



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 BVS 11.0015X** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 2 [Issue 1 \(2015-04-07\)](#)
[Issue 0 \(2011-03-02\)](#)
Date of Issue: 2021-01-28
Applicant: **R. STAHL Schaltgeräte GmbH**
Am Bahnhof 30
74638 Waldenburg
Germany
Equipment: **Field Device Coupler type 9410/34-3*0-*0**
Optional accessory:
Type of Protection: **Intrinsic safety "i"; Increased safety "e"**
Marking: Ex ec [ic] IIC T4 Gc

Approved for issue on behalf of the IECEx
Certification Body:

Jörg Koch

Position:

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 www.iecex.com or use of this QR Code.



Certificate issued by:

DEKRA Testing and Certification GmbH
Certification Body
Dinnendahlstrasse 9
44809 Bochum
Germany

 **DEKRA**
On the safe side.



IECEx Certificate of Conformity

Certificate No.: **IECEx BVS 11.0015X**

Page 2 of 4

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Manufacturer: **R. STAHL Schaltgeräte GmbH**
Am Bahnhof 30
74638 Waldenburg
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 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

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/BVS/ExTR11.0031/02](#)

Quality Assessment Report:

[DE/BVS/QAR10.0002/16](#)



IECEx Certificate of Conformity

Certificate No.: **IECEx BVS 11.0015X**

Page 3 of 4

Date of issue: 2021-01-28

Issue No: 2

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Subject and Type

See Annex

Description

The Field Device Coupler serves for coupling between a fieldbus trunk line (TRUNK) and 4 resp. 8 resp. 12 spur lines (SPUR).

For installation of the field device in areas, where EPL Gc equipment is required, the module has to be mounted inside an enclosure which is in accordance with IEC 60079-7.

Listing of all components used referring to older standards

None

Parameters

See Annex

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1.
- The equipment shall be installed in an enclosure that provides a minimum ingress protection of IP54 in accordance with IEC 60079-0.
- Transient protection shall be provided that is set at a level not exceeding 140 % of the peak rated voltage value at the supply terminals to the equipment.
- The circuits shall be limited to overvoltage Category II as defined in IEC 60664-1.



IECEx Certificate of Conformity

Certificate No.: **IECEx BVS 11.0015X**

Page 4 of 4

Date of issue: 2021-01-28

Issue No: 2

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Assessment of the Field Device Coupler in accordance with the current standard versions
- Modification of documents

Annex:

[BVS_11_0015X_R_Stahl_Annex_issue2.pdf](#)



IECEX Certificate of Conformity



Certificate No.: IECEx BVS 11.0015X Issue No. 2
Annex
Page 1 of 2

Subject and Type

Field Device Coupler Type 9410/34-3*0-*0

Instead of the *** in the complete denomination numerals will be inserted which characterize the different modifications:

	9410/34	-	3	*	0	-	*	0
Device category	3		3 (EPL Gc)					
Design of connection terminals								
1			screw					
2			cage clamb					
3			detachable					
Protection enclosure (Ex e / IP6X)								
0			none					
Number of channels (SPURs)								
3			4					
4			8					
6			12					
0			No electrical isolation (input-output)					

Parameters

- 1 Use in accordance with type of protection Ex ec
 - 1.1 Input (terminals TRUNK A and TRUNK B: +, -, S)

Nominal voltage	$U_{n,in}$	DC	24	V
Range of nominal voltage		DC	9-32	V
Nominal current	I_n		2	A
 - 1.2 Output circuits (terminals SPUR 1 - 4 resp. 1 - 8 resp. 1 - 12: +, -, S)

Nominal voltage	$U_{n,out} = U_{n,in}$	DC	24	V
Range of nominal voltage		DC	9-32	V
Nominal current	I_n		41	mA
 - 2 Use in accordance with type of protection Ex ec [ic]
 - 2.1 Fieldbus input (terminals TRUNK A and TRUNK B: +, -, S)
 Supply from a circuit with voltage limitation in accordance with Ex ic

Maximum input voltage	U_i	DC	25	V
Nominal current	I_n		2	A
 - 2.2 Output circuits (terminals SPUR 1 - 4 resp. 1 - 8 resp. 1 - 12: +, -, S) in type of protection Ex ic

Maximum output voltage	$U_o = U_i$	DC	25	V
Maximum output current	I_o		54	mA
Rectangular output characteristics				
Maximum output power	P_o		1.35	W
- Maximum external capacitance C_o
 At maximum external inductance L_o
 (combined values) according to table below for Group IIC:

Lo [μ H]	270
Co [nF]	80



IECEX Certificate of Conformity



Certificate No.: IECEx BVS 11.0015X Issue No. 2
Annex
Page 2 of 2

- 3 Use in accordance with Ex ec [ic] and FISCO
- 3.1 Fieldbus input (terminals TRUNK A and TRUNK B: +, -, S)
Supply from a circuit with voltage limitation in accordance with Ex ic
- | | | | | |
|-----------------------|-------|----|------|---|
| Maximum input voltage | U_i | DC | 17.5 | V |
| Nominal current | I_n | | 2 | A |
- 3.2 Output circuits (terminals SPUR 1 - 4 resp. 1 - 8 resp. 1 - 12: +, -, S) in accordance with FISCO
- | | | | | |
|------------------------|-------------|----|------|----|
| Maximum output voltage | $U_o = U_i$ | DC | 17.5 | V |
| Maximum output current | I_o | | 54 | mA |
- Rectangular output characteristics
- 4 Ambient temperature range T_a -40 °C up to +75 °C