



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 PTB 17.0013X** Page 1 of 5 [Certificate history:](#)
Issue 0 (2017-02-20)

Status: **Current** Issue No: 1

Date of Issue: 2023-07-12

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

Equipment: **BusRail, type 9494/**-****

Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking: **Ex ia IIC T4 Gb**

Approved for issue on behalf of the IECEx
Certification Body:

Dr.-Ing. Martin Thedens

Position:

**Head of Department "Explosion Protection in Sensor Technology
and Instrumentation"**

Signature:
(for printed version)

Date:
(for printed version)

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2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:

Physikalisch-Technische Bundesanstalt (PTB)
Bundesallee 100
38116 Braunschweig
Germany





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

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 60079-11:2023](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:7.0

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/PTB/ExTR17.0011/01](#)

Quality Assessment Report:

[DE/BVS/QAR10.0002/18](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The BusRail, type 9494 / * *-** serves as a backplane of the Remote I/O System, type IS1 / IS1+ and it is used for clip-on mounting and establishing of electrical connections of the separately certified system-modules.

For further information refer to the annex.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Inside the hazardous area the BusRail, type 9494 / * *-** shall be installed into an enclosure that corresponds to an acknowledged type of protection according to EN 60079-0 and that provides a minimum degree of protection of IP 54 according to EN 60529.
2. Only the separately certified system-modules of the Remote I/O System, type IS1 / IS1+ may be connected to the BusRail, type 9494 / * *-**.
3. The DIN-mounting rail shall be safely connected to the local equipotential bonding system. The grounding clamps of the BusRail, type 9494 / * *-** shall be snapped securely to the DIN-mounting rail.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Adaption of the test specification to the current state of standards
- Alternative connection cable by Helukabel
- Adaption of the max. permissible ambient temperature when using the new cable
- Adaption of the safety-relevant description, type labels and operating instructions regarding the changes made



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Additional information:

For thermal and electrical specifications reference is made to the Annex.

Annex:

[CoCA170013X-01_1.pdf](#)



Applicant: R. STAHL Schaltgeräte GmbH
Electrical Apparatus: BusRail, type 9494/**-**

Description of equipment

The BusRail, type 9494/**-** serves as a backplane of the Remote I/O System, type IS1 / IS1+ and it is used for clip-on mounting and establishing of electrical connections of the separately certified system-modules. The BusRail consists of two different segments (banks) with 4 or 2 plug connectors, a cable connection as well as the BusRail end covers. Several segments can be plugged together directly or/and by the associated cable connection to extend the system up to the acceptance of the permissible maximum number of modules. The BusRail end covers are each mounted at the beginning and the end of the intended complete configuration. All plug connectors and the end covers ensure a minimum degree of protection of IP 30.

The BusRail, type 9494/**-** is intended for the installation into an enclosure that corresponds to an acknowledged type of protection and provides a minimum degree of protection of IP 54. Inside of the enclosure the BusRail is fixed on a 35 mm DIN-mounting rail by means of the grounding clamps and the end covers. Horizontal or vertical mounting is possible. Up to 16 I/O-modules and up to 2 CPM-modules may be mounted as a maximum.

The permissible range of the ambient temperature depends on the connection cable used:

Medikabel POWER-PUR-D	$T_a = -40\text{ °C} \dots +75\text{ °C}$
Helukabel HELUDATA Tronic-CY246	$T_a = -40\text{ °C} \dots +65\text{ °C}$

Electrical data

The BusRail, type 9494/**-** provides only system-internal supply, data and address circuits in type of protection Intrinsic Safety. The parameters of these circuits are determined by the connected system modules.

Maximum values:

Supply circuit	$U_i = 26.2\text{ V}$
Data circuits and address bus	$U_i = 6.6\text{ V}$