



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 TUR 19.0072X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2019-12-10

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

Equipment: **Termination Board and Connection Cable, Type 9491/*1-**-****

Optional accessory:

Type of Protection: **Ex ec**

Marking: Ex ec IIC T4 Gc

Approved for issue on behalf of the IECEx
Certification Body:

Andreas Maschke

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



Certificate issued by:

TUV Rheinland Industrie Service GmbH
Am Grauen Stein
51105 Cologne
Germany





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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 60079-7:2017 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/TUR/ExTR19.0072/00](#)

Quality Assessment Report:

[DE/BVS/QAR10.0002/15](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Termination Boards type 9491/T1-**-0* as well as the corresponding Connection Cable type 9491/Z1-VB-** are accessories for the Remote I/O System "IS1+". The devices are intended to connect the non-I.S. field circuits of two I/O modules of the same type in parallel in order to provide redundancy.

The devices are intended for use in Zone 2 or outside explosive atmospheres.

See attachment for further details.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1.
2. The equipment shall be installed in an enclosure that provides a minimum ingress protection of IP54. For installations in Zone 2 the equipment shall be mounted in an enclosure according to IEC 60079-0 which provides an appropriate type of protection.
3. 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

Annex:

[IECEx_TUR_19.0072X_Attachment_1.pdf](#)



Device: Termination Board and Connection Cable
Type: 9491/*1-**-**

Manufacturer: R. STAHL Schaltgeräte GmbH

Address: Am Bahnhof 30,
D-74638 Waldenburg, Germany

Subject and type
Termination Board and Connection Cable, Type 9491/*1-**-**

Type designation:

Termination Board / Connection Cable 9491 /		*	1	-	*	*	-	*	*
		a	b		c	d		e	f
Hardware-Version:									
Termination Board	T								
Connection Cable	Z								
Hazardous area:									
Zone 2 / category 3	1								
Number of Channels:									
8 channels	08								
16 channels	16								
Connection Cable	VB								
Connectors / Cable length:									
Push-In Terminals	02								
Removable Push-In Terminals	04								
Cable length: 0.5 m	05								
Cable length: 1.0 m	10								



Electrical data:

Type 9491/T1-08-0*:

Nominal voltage:

- analog: $U_N = 21 \text{ V DC}$
- digital: $U_N = 24 \text{ V DC}$ (18 ... 32 V DC)

Signal current:

- analog (in/out): $I_N = 0 \dots 24 \text{ mA}$
- digital (in): $I_N = 0 \dots 3 \text{ mA}$
- digital (out): $I_N = 0 \dots 0.5 \text{ A}$

Type 9491/T1-16-0*:

Nominal voltage:

- digital: $U_N = 24 \text{ V DC}$ (18 ... 32 V DC)

Signal current:

- digital (in): $I_N = 0 \dots 3 \text{ mA}$
- digital (out): $I_N = 0 \dots 0.5 \text{ A}$

Environmental data:

$T_a = - 40^\circ\text{C} \dots + 75^\circ\text{C}$