

(1) TYPE EXAMINATION CERTIFICATE



- (2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere - **Directive 2014/34/EU**
- (3) Type-Examination Certificate Number

TÜV 19 ATEX 8462 X

Issue: 00

- (4) Equipment: **Termination Board and Connection Cable, Type 9491/*1-**-****
- (5) Manufacturer: **R. STAHL Schaltgeräte GmbH**
- (6) Address: **Am Bahnhof 30
D-74638 Waldenburg, Germany**
- (7) This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The TÜV Rheinland Zertifizierungsstelle für Explosionsschutz of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 21 of the Council Directive 2014/34/EU of 26th February 2014, certifies this product which has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmosphere, given in Annex II to the Directive.
- The examination and test results are recorded in the confidential report 557/Ex8462.00/19
- (9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

EN IEC 60079-0: 2018

EN IEC 60079-7: 2015 / A1:2018

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This Type Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.
- (12) The marking of the equipment shall include the following:



II 3 G Ex ec IIC T4 Gc

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2019-12-10

Dipl.-Ing. Andreas Maschke



This Type Examination Certificate without signature and stamp shall not be valid.
This Type Examination Certificate may be circulated only without alteration. Extracts or alterations are subject to approval by the
TÜV Rheinland Industrie Service GmbH TÜV Rheinland Group Am Grauen Stein 51105 Köln
Tel. +49 (0) 221 806-0 Fax. + 49 (0) 221 806 114

(13)

Annex

(14)

Type Examination Certificate

TÜV 19 ATEX 8462 X

Issue: 00

(15)

Description of equipment

15.1 Equipment and type:

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

15.2 Description

General product information

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.

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
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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

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Technical Data

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:

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

(16) Test-Report No. 557/Ex8462.00/19

(17) Special Conditions for safe use


1. The equipment shall only be used in an area of at least pollution degree 2, as defined in EN 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 EN 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.

(18) Basic Safety and Health Requirements Covered by afore mentioned standard

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

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