Operating instructions

Additional languages r-stahl.com

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Supply Module

Type 9193/21-11-11

– Save for future use! –

STAHL

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1 General Information

1.1 Manufacturer

R. STAHL Schaltgeräte GmbH
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Germany

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1.2 About these Operating Instructions

- Read these operating instructions, especially the safety notes, carefully before use.
- Observe all other applicable documents (see also chapter 1.3).
- Keep the operating instructions throughout the service life of the device.
- Make the operating instructions accessible to operating and maintenance personnel at all times.
- Pass the operating instructions on to each subsequent owner or user of the device.
- Update the operating instructions every time you receive an amendment to them from R. STAHL.

ID-No.:	169070 / 9193603310
Publication Code:	2023-03-10·BA00·III·en·04
Hardware version:	A

The original instructions are the German edition.
They are legally binding in all legal affairs.

1.3 Further Documents

- Cabinet installation guide
- Data sheet

For documents in additional languages, see r-stahl.com.

1.4 Conformity with Standards and Regulations

- IECEx, ATEX, EU Declaration of Conformity and further national certificates can be downloaded via the following link: https://r-stahl.com/en/global/support/downloads/
- IECEx is also available at: https://www.iecex.com/

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2 Explanation of the Symbols

2.1 Symbols in these Operating Instructions

Symbol	Meaning
	Tip for making work easier
DANGER!	Dangerous situation which can result in fatal or severe injuries causing permanent damage if the safety measures are not complied with.
WARNING!	Dangerous situation which can result in severe injuries if the safety measures are not complied with.
CAUTION!	Dangerous situation which can result in minor injuries if the safety measures are not complied with.
NOTICE!	Dangerous situation which can result in material damage if the safety measures are not complied with.

2.2 Symbols on the Device

Symbol	Meaning
CE 17055E00	CE marking according to the current applicable directive.
Ex 02198E00	Device certified for hazardous areas according to the marking.
15649E00	Input
11048E00	Safety notes that must always be observed: The corresponding data and/or safety-related instructions contained in the operating instructions must be followed for devices with this symbol!
20690E00	Marking according to the WEEE directive 2012/19/EU

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3 Safety

The device has been manufactured to the state of the art while observing recognised safety-related rules. When using the device, it is nevertheless possible for hazards to occur to life and limb of the user or third parties or for the device, environment or material assets to be compromised.

- Use the device only
  - if it is not damaged
  - as intended, while remaining aware of safety and dangers
  - in accordance with these operating instructions.

3.1 Intended Use

The supply module type 9193/21-11-11 is an accessory for the ISpac 91xx (17.6 mm width) and 92xx (12.5 mm width) product series. If installed in series with the pac-Bus elements 9194 and 9294, the supply module (with its special pac-Bus elements, grey colour) enables a redundant auxiliary power supply (24 V DC, max. 4 A) for all ISpac devices installed on this pac-Bus segment. Furthermore, the supply module generates a collective error message.
The device may only be operated in environments not exceeding degree of pollution 2.
"Intended use" includes complying with these operating instructions and the other applicable documents, e.g. the data sheet.
Any other use is not intended.

3.2 Personnel Qualification

Qualified specialist personnel are required to perform the activities described in these operating instructions. This primarily applies to work in the following areas:

- Product selection, project engineering
- Mounting/dismounting the device
- Installation
- Commissioning
- Maintenance, repair, cleaning

Specialists who perform these tasks must have a level of knowledge that meets applicable national standards and regulations.

Additional knowledge is required for tasks in hazardous areas! R. STAHL recommends having a level of knowledge equal to that described in the following standards:

- **IEC/EN 60079-14 (Electrical installations design, selection and erection)**
- **IEC/EN 60079-17 (Inspection and maintenance of electrical installations)**
- **IEC/EN 60079-19 (Equipment repair, overhaul and reclamation)**

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3.3 Residual Risks

3.3.1 Explosion Hazard

Despite the device's state-of-the-art design, explosion hazards cannot be entirely eliminated in hazardous areas.

- Perform all work steps in hazardous areas with the utmost care at all times!
- Transport, store, plan, mount and operate the device in compliance with the technical data exclusively (see the "Technical data" chapter).

Possible hazards (residual risks) can be categorised according to the following causes:

Mechanical damage

The device can be damaged during transport, mounting or commissioning.
This kind of damage can, for example, render the device's explosion protection partially or fully ineffective. This may result in explosions causing serious or even fatal injury to persons in the vicinity.

- Only transport the device in special transport packaging that reliably protects the device from external influences. Observe the ambient conditions when selecting the transport packaging (see the "Technical data" chapter).
- Do not place any load on the device.
- Check the packaging and the device for damage. Report any damage to R. STAHL immediately. Do not commission a damaged device.
- Store the device in its original packaging in a dry place (with no condensation), and make sure that it is stable and protected against the effects of vibrations and knocks.
- Do not damage the device and other system components during mounting.

Excessive heating or electrostatic charge

An incorrect setup in the cabinet, operation outside of approved conditions or improper cleaning can cause the device to heat up severely or to become electrostatically charged, causing it to produce sparks. This may result in explosions causing serious or even fatal injury to persons in the vicinity.

- Operate the device only within the prescribed operating conditions (see the marking on the device and the "Technical data" chapter).
- Only line up or combine devices using the stipulated procedure.
- Install and set up the cabinet in such a way that all devices installed within it are always operated within their permissible temperature range (see cabinet installation guide).
- Clean the device only with a damp cloth.
- Observe the maximum number of ISpac devices per pac-Bus segment (see Chapter 5.1) in order not to exceed the maximum current carrying capacity.

Improper mounting, installation, commissioning, maintenance or cleaning

Basic work such as installation, commissioning, maintenance or cleaning of the device must be performed only in accordance with the valid national regulations of the country of use and only by qualified persons. Otherwise the explosion protection can be rendered ineffective. This may result in explosions causing serious or even fatal injury to persons in the vicinity.

- Have mounting, installation, commissioning and maintenance work performed only by qualified and authorised persons (see Chapter 3.2).
- Prior to commissioning, check the mounting for correctness (see Chapter 7).
- Only mount the device on the NS 35/15 or NS 35/7.5 DIN rail in accordance with IEC/EN 60715.
- When used in Zone 22, the device is to be installed in a protective enclosure or in a cabinet according to IEC/EN 60079-31. This enclosure (or cabinet) has a suitable degree of protection (at least IP64).
- When used in Zone 2, the device is to be installed in a protective enclosure or in a cabinet according to IEC/EN 60079-0. This enclosure (or cabinet) has a suitable degree of protection (at least IP54).
- The device may only be operated in environments not exceeding degree of pollution 2.
- When operated together with Ex i electrical circuits in Zone 2, protect the non-intrinsically safe terminals with a covering that fulfils the the IP30 degree of protection. If the covering is missing: Open the enclosure only in a de-energised state.
- In hazardous areas, operate the DIP switch of the device only in a de-energised state.
- In hazardous areas, always switch the electrical circuits to a de-energised state before disconnecting or connecting and when mounting/dismounting devices on the pac-Bus.
- Use only one 9193 device per pac-Bus segment.
- Ensure that the 24 V power supply can guarantee a network failure bridge of at least 20 ms (according to IEC/EN 61326-3-2 and NE21).
- Do not change or retrofit the device.
- Gently clean the device only with a damp cloth and without scratching, abrasive or aggressive cleaning agents or solutions.

3.3.2 Damage to the Device

The device can be irreparably damaged during basic work on the device (e.g. mounting, installation, maintenance, cleaning).

Electrostatic discharge

The device contains sensitive components that can be destroyed by electrostatic discharges. This can impair the function of the device or destroy it completely.

- Before carrying out work on the device, the body must be discharged on earthed metal parts or an ESD wrist strap must be put on.

4 Transport and Storage

- Transport and store the device carefully and in accordance with the safety notes (see Chapter "Safety").

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5 Product Selection and Project Engineering

Install and set up the cabinet in such a way that all devices installed within it are always operated within their permissible temperature range (see cabinet installation guide).

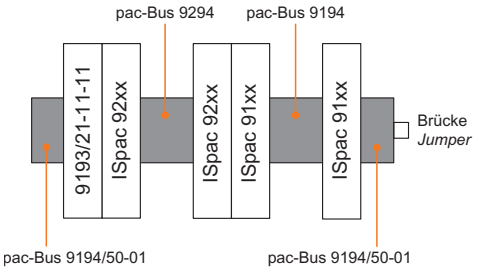
5.1 Calculation of the maximum Number of ISpac Devices per pac-Bus Segment

The maximum current carrying capacity of a pac-Bus segment is 4 A.

When planning a pac-Bus segment, ensure that the sum of the nominal currents of all ISpac devices does not exceed the value of 4 A. The value of the nominal current of an individual device can be found in the data sheet or operating instructions of the respective device. It must be observed that the value of the nominal current is valid in the case that a nominal voltage of 24 V DC is applied. If the voltage deviates from the nominal voltage, the current consumption can vary.

5.2 Assembly of the pac-Bus Segment and Positioning of the Supply Module

When mounting the devices on the pac-Bus, observe the following sequence (see the following figure):



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- Position the supply module 9193 either to the right or to the left at the beginning of the segment (the depicted arrangement can also be installed in mirrored order); then position all ISpac 92xx modules and afterwards the 91xx modules.
- Do not install any device of the 91xx series between the supply module and the devices of the 92xx series.
- Do not connect any additional supply, error evaluation or similar to the pac-Bus.

The pac-Bus and the supply module can be installed in any position.

pac-Bus element for the supply module 9193

The supply module comes with a matching pac-Bus element. Please separately order the pac-Bus components 9194/31-17 (for ISpac 91xx), 9294/31-12 (for ISpac 92xx) and the end terminal 9194/50-01 corresponding to the number of ISpac modules.

5.3 Concept of Auxiliary Power Supply

The supply module enables operation with a single or redundant supply of 24 V DC auxiliary power. In order to achieve high availability, we recommend operating the supply module with redundant supply. The supplied current flows through an interchangeable fuse.

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6 Mounting and Installation

NOTICE! Malfunction or device damage during mounting/dismounting while live.
Non-compliance can result in material damage.
- Only connect or disconnect the device and the pac-Bus when disconnected from the voltage.

6.1 Mounting / Dismounting

- Mount the device carefully and only in accordance with the safety notes (see Chapter "Safety").
- Read through the following installation conditions and assembly instructions carefully and follow them precisely.

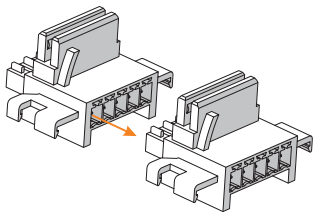
6.1.1 Operating Position

The pac-Bus and the supply module can be installed in any position.

6.1.2 Mounting / Dismounting pac-Bus

The supply module comes with a matching pac-Bus element (grey). This pac-Bus element is only intended for the supply module 9193/21-11-11.

Mounting



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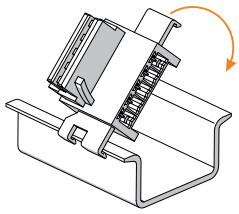
- Connect the required number of pac-Bus elements of the types 9194/31-17 and/or 9294/31-12 and the pac-Bus element accessory (grey).



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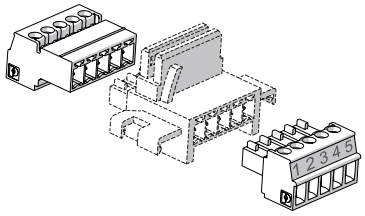
- Engage the pac-Bus elements on the DIN rail.



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- Connect the terminal set at the beginning and at the end.
  Both terminals are equipped with a jumper.
- Remove the jumper from the terminal adjacent to the supply module 9193 (see Chapter 5.2).

Dismounting

- Proceed in the reverse order to mounting.

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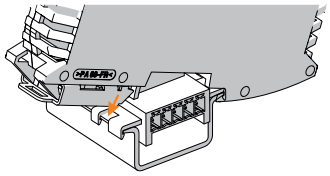
6.1.3 Mounting / Dismounting of the Device on DIN Rail and pac-Bus

Mounting



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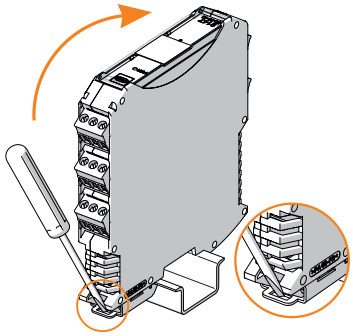
The pac-Bus is equipped with a polarisation guide and the device with a matching polarisation slot.

- Position the device as shown in the illustration. Position the cut-out of the enclosure on the outside edge of the DIN rail.
- Engage the device on the pac-Bus.
- When swivelling the device onto the DIN rail, make sure that it is not set at an angle.

Dismounting



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- Pull out the base bolt slightly using a screwdriver.
- Swivel out the device.

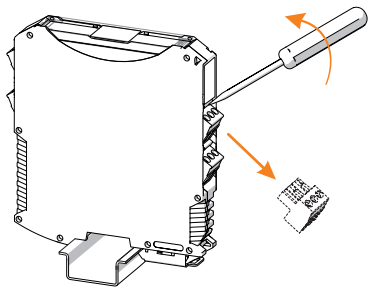
6.1.4 Mounting / Dismounting pluggable Terminals

All devices are equipped with pluggable terminals.

Mounting

- Insert the terminal into the device until the terminal engages.

Dismounting



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- Position the screwdriver behind the terminal.
- Push out the terminal.

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6.2 Installation

Operation under difficult conditions, in particular on ships, requires additional measures to be taken for correct installation, depending on the operating location. Further information and instructions on this can be obtained from your regional sales contact upon request.

6.2.1 Electrical Connections / Schematic Diagram

See device labelling.

For the connection cross-sections of the wiring to be connected, refer to chapter "Technical data".

- If there is only one auxiliary power supply, connect the power supply to the terminals 1 + and 3 -.

7 Parameterization and Commissioning

DANGER! Explosion hazard from operating the DIP switches in Zone 2 while they are live!

Non-compliance may result in serious or even fatal injury.

- Adjust the DIP switches exclusively in a de-energised state.

Before commissioning, carry out the following checks:

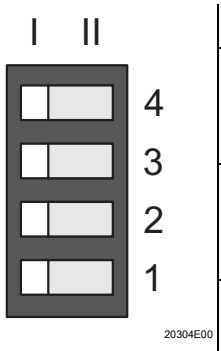
- Mounting and installation of the device according to regulations.
- Correct, secure connection of the cables.
- No damage to the device or the cables.
- The screws are securely fastened to the terminals.
  Correct tightening torque: 0.5 to 0.6 Nm.

- Do not commission the device until it has been successfully tested.

7.1 Replacement of the Device

- If replacing this device with a device with an identical design, readjust the DIP switch if necessary.

7.2 Parameterisations and Error Messages



DIP 4	Non-functional
DIP 3	Collective error message for 92xx series modules • I: Message activated • II: Message deactivated
DIP 2	Collective error message for 91xx series modules • I: Message activated • II: Message deactivated
DIP 1	Error message for "PWR2" • I: Message activated • II: Message deactivated

If the primary auxiliary power supply ("PWR1") fails, an error message is always issued regardless of whether or not a redundant supply has been connected. If there is a malfunction of the interchangeable fuse, an error message is always issued as well.

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8 Operation

8.1 Operation

- For device operation, observe the information in the "Intended Use" and "Parameterisation and Commissioning" chapters.

In normal operation, the supply module evaluates the error messages of all devices installed on the pac-Bus (prerequisite: the respective ISpac device has an LFD function). These error messages are merged into a collective error message with the statuses of PWR1, PWR2 and the interchangeable fuse using a relay contact and LED signalling.

8.2 Indications

The LEDs on the device indicate the operating state of the device (see also the "Device design" chapter).

LED	Colour	LED "ON"	LED "OFF"
PWR1	green	Primary auxiliary power functional	Primary auxiliary power defective or not connected
PWR2	green	Secondary auxiliary power functional	Secondary auxiliary power defective or not connected
ERR	red (flash-ing)	Collective error message • Failure of primary auxiliary power • Failure of secondary auxiliary power • Collective error message of ISpac modules • Interchangeable fuse defective	No collective error message

8.3 Troubleshooting

Error	Cause of error	Troubleshooting
"ERR" LED (red) flashing, "PWR1" LED (green) off or "PWR2" LED (green) off	• Auxiliary power failure • Polarity reversal of the auxiliary power source • Device back-up fuse defective	• Check the wiring of the auxiliary power supply • Check the polarity of the auxiliary power supply. • Submit the device for repair
"ERR" LED (red) flashing, no error message from ISpac devices, "PWR2" LED (green) off (supply from "PWR1" alone desired)	• "PWR2" auxiliary power not connected and DIP switch 1 in position I • Connection terminal with jumper not installed correctly	• Set DIP switch 1 to position II • Correct mounting of the connection terminal with the jumper

Error	Cause of error	Troubleshooting
Error message from ISpac device, no collective error message from 9193/21-11-11	• One jumper on the pac-Bus 9194/50-01 connection terminal not removed (Note: The connection terminal 9194/50-01 comes with two jumpers!) • Error message deactivated by DIP switch	• Remove the jumper on the terminal that is adjacent to the supply module 9193. • Set DIP switch 2 or 3 to position I.
"ERR" LED (red) flashing, ISpac devices are not in operation	• Interchangeable fuse defective or not installed	• Replace interchangeable fuse, see Chapter 9.2.1, or install and check whether the pac-Bus segment has been set up correctly and the auxiliary power supply has the correct voltage
"ERR" LED (red) flashing, no PWR error, ISpac devices are operational	• Error in one or more ISpac devices on the segment • Connection terminal with jumper not installed correctly	• Eliminate error in the ISpac devices, see operation instructions of the respective device • Correct mounting of the connection terminal with the jumper

If the error cannot be eliminated using the specified procedures:

▶ Contact R. STAHL Schaltgeräte GmbH.

For rapid processing, have the following information ready:

- Type and serial number of the device
- Purchase information
- Error description
- Intended use (in particular, input and output wiring)

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9 Maintenance, Overhaul, Repair

- Comply with the applicable national standards and regulations in the country of use, e.g. IEC/EN 60079-14, IEC/EN 60079-17, IEC/EN 60079-19.

9.1 Maintenance

Check the following points in addition to the national regulations:

- Whether the clamping screws holding the electrical lines fit securely
- Whether the device has cracks or other visible signs of damage
- Whether the permissible temperatures are complied with
- Whether the parts are securely fastened
- Ensure it is being used as intended

9.2 Overhaul

The device does not require regular maintenance.

- Perform maintenance on the device according to the applicable national regulations and the safety notes in these operating instructions ("Safety" chapter).

9.2.1 Replacement of the Fuse

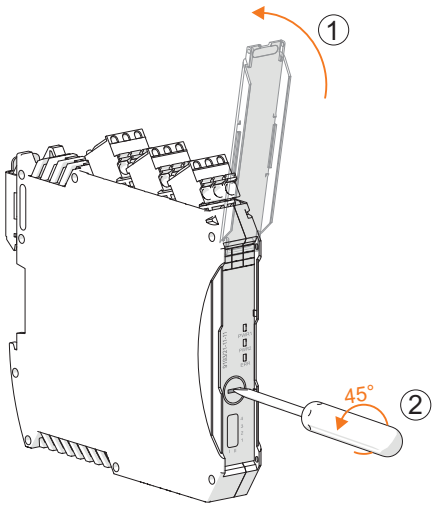
DANGER! Explosion hazard due to replacement of the fuse in Zone 2 when it is live!
Non-compliance may result in serious or even fatal injury.

- Only replace the fuse in a de-energised state.

DANGER! Explosion hazard due to use of a fuse that is not the original fuse!
Non-compliance may result in serious or even fatal injury.

- Use only original accessories and spare parts with the article number 111412 from R. STAHL Schaltgeräte GmbH (see data sheet).

Dismounting and replacement of the fuse



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- Lift up the transparent cover (1).
- Position the screwdriver in the slot of the fuse holder and turn it anticlockwise by 45° until the fuse holder is released (2).

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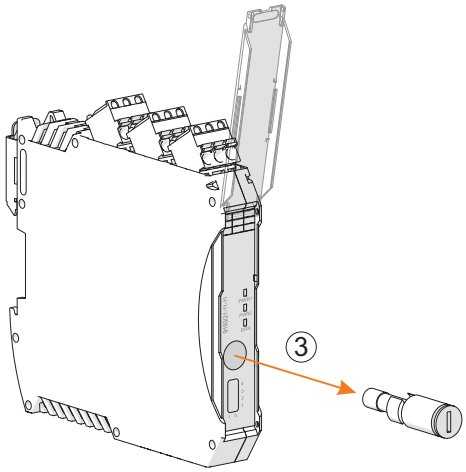

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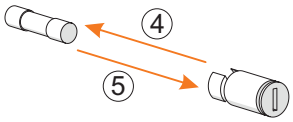
- Pull the fuse holder with the fuse out of the enclosure (3).

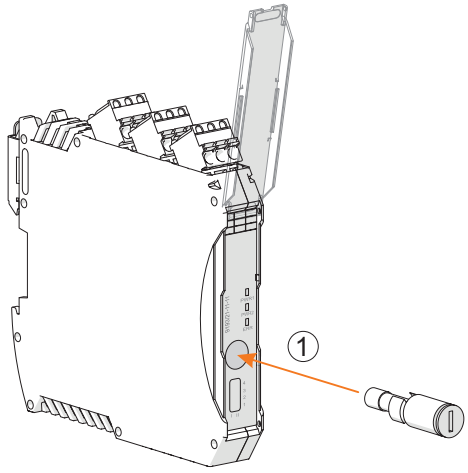


20306E00

Touch the fuse only with clean gloves to avoid contaminating it.

- Pull the defective fuse out of the fuse holder (4).
- Ensure that the new fuse has clean and grease-free contacts. Clean with a mild cleaning agent if necessary.
- Insert the new fuse into the fuse holder (5).

Mounting the fuse



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- Insert the fuse holder into the opening of the enclosure (1).

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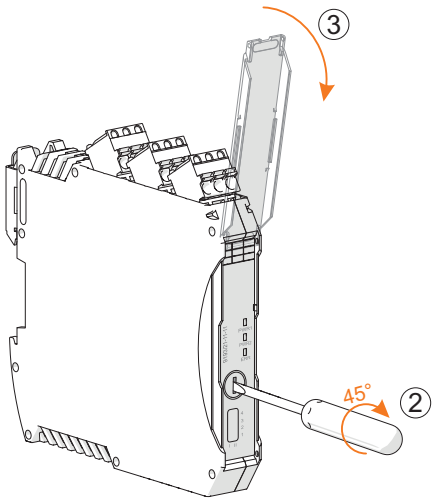

20308E00

- Align the slot with the position in which the fuse holder was released.
  Position the screwdriver in the slot of the fuse holder and press the fuse holder into the enclosure until it is below the front plate of the device. Hold the screwdriver in place and turn it clockwise by 45° (2).
- Close the transparent cover (3).

9.3 Repair

- Repair work on the device must be performed only by R. STAHL.

10 Returning the Device

- Only return or package the devices after consulting R. STAHL!
  Contact the responsible representative from R. STAHL.

R. STAHL's customer service is available to handle returns if repair or service is required.

- Contact customer service personally.

or

- Go to the r-stahl.com website.
- Under "Support" > "RMA" > select "RMA-REQUEST".
- Fill out the form and send it.
  You will automatically receive an RMA form via email. Please print this file off.
- Send the device along with the RMA form in the packaging to
  R. STAHL Schaltgeräte GmbH (refer to chapter 1.1 for the address).

11 Cleaning

- Check the device for damage before and after cleaning it. Take damaged devices out of operation immediately.
- To avoid electrostatic charging, the devices located in hazardous areas may only be cleaned using a damp cloth.
- When cleaning with a damp cloth, use water or mild, non-abrasive, non-scratching cleaning agents.
- Do not use corrosive cleaning agents or solvents.

12 Disposal

- Observe national and local regulations and statutory regulations regarding disposal.
- Separate materials when sending them for recycling.
- Ensure environmentally friendly disposal of all components according to the statutory regulations.

13 Accessories and Spare Parts

NOTICE! Malfunction or damage to the device due to the use of non-original components.
Non-compliance can result in material damage.

- Use only original accessories and spare parts from R. STAHL Schaltgeräte GmbH (see data sheet).

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14 Annex A

14.1 Technical Data

Explosion Protection	
Global (IECEx)	
Gas	IECEx BVS 10.0042X
	Ex ec nC IIC T4 Gc
Europe (ATEX)	
Gas	BVS 03 ATEX E 213 X
	Ⓔx II 3 G Ex ec nC IIC T4 Gc
Certifications and certificates	
Certificates	IECEx, ATEX, Canada (cFM), Kazakhstan (EAC), Russia (EAC), USA (FM), Belarus (EAC)
Ship approval	DNV GL (EU RO Mutual Recognition)
Further parameters	
Installation	in Zone 2 and in the safe area
Further information	see respective certificate and operating instructions

Technical Data	
Electrical data	
Input	
Power supply	24 V DC
Input range	18 to 31.2 V
Residual ripple	< 3.6 V_{ss}
Max. current	4 A
Power losses (at 4 A)	2.5 W
Redundant supply	yes, decoupled with diodes
Indication	2 LED green "PWR1", "PWR2"
Polarity reversal protection	yes
Output	
Supply into the pac-Bus	24 V / max. 4 A
Error message	
Collective error message	Contact (35 V / 100 mA)
Settings of "LF 92xx" switches	Line fault detection for ISpac modules of the 92xx series activated or deactivated.
Settings of "LF 91xx" switches	Error detection for ISpac modules of the 91xx series activated or deactivated.
Settings of "PWR2" switches	Auxiliary power failure message for redundant supply activated or deactivated.

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Technical Data

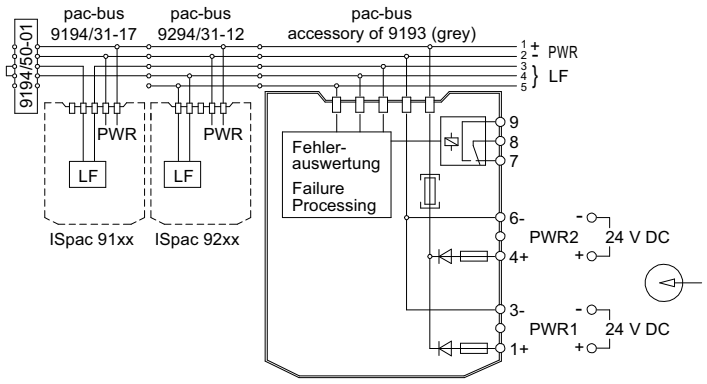
Electromagnetic compatibility	Tested under the following standards and regulations: EN 61326-1 Use in industrial environment; NAMUR NE 21

Ambient conditions

Ambient temperature	-40 to +55 / +70 °C (Please observe the "Cabinet installation guide")
Storage temperature	-40 to +80 °C
Relative humidity (no condensation)	≤ 95 %
Use at the height of	< 2000 m

Electrical connection

Connection diagram



Mechanical data

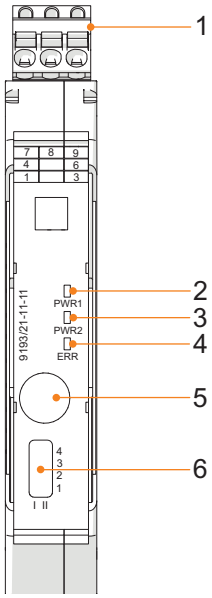
		Screw terminals	Spring clamp terminals
Connection	Single-wire connection		
	- rigid	0.2 to 2.5 mm²	0.2 to 2.5 mm²
	- flexible	0.2 to 2.5 mm²	0.2 to 2.5 mm²
	- flexible with core end sleeve (without / with plastic sleeve)	0.25 to 2.5 mm²	0.25 to 2.5 mm²
	Two-core connection		
	- rigid	0.2 to 1 mm²	–
	- flexible	0.2 to 1.5 mm²	–
	- flexible with core end sleeve	0.25 to 1 mm²	0.5 to 1 mm²
Tightening torque	Screw terminal: 0.5 to 0.6 Nm		
Weight	approx. 110 g		
Mounting type	on DIN rail (NS35/15, NS35/7.5)		
Mounting orientation	horizontal or vertical		
Enclosure	IP30		
Terminals	IP20		
Enclosure material	PA 6.6		
Fire resistance (UL 94)	V0		

For further technical data, see r-stahl.com.

EN

15 Annex B

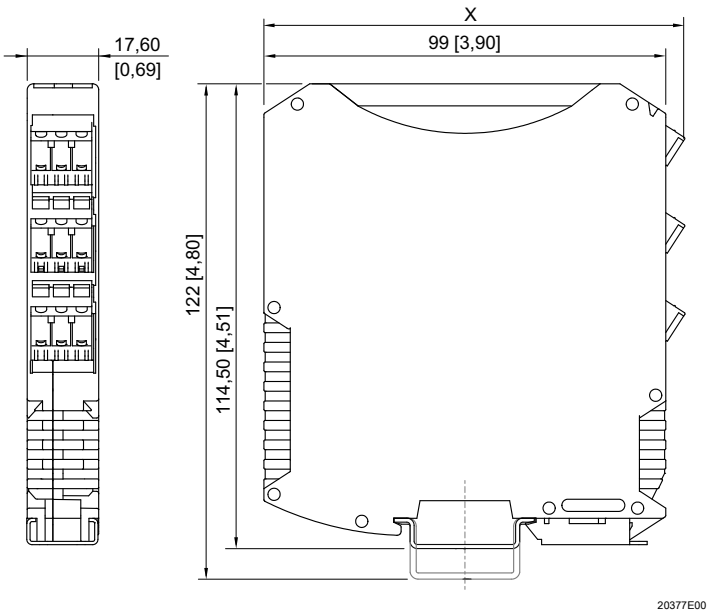
15.1 Device Design



#	Device component	Description
1	Green/black terminals	Connection terminals for the auxiliary power and the collective error message contact
2	"PWR1" LED, green	Auxiliary power 1 indication
3	"PWR2" LED, green	Auxiliary power 2 indication, redundant
4	"ERR" LED, red	Collective error message, see Chapter 8.2
5	Fuse	Interchangeable fuse
6	DIP switch	Selection of the error messages

15.2 Dimensions / Fastening Dimensions

Dimensional drawings (all dimensions in mm [inches]) – Subject to modification



	Dimension X
Screw terminals	104 [4.09]
Spring clamp terminals	114 [4.49]

EU-Konformitätserklärung
EU Declaration of Conformity
Déclaration de Conformité UE

R. STAHL Schaltgeräte GmbH • Am Bahnhof 30 • 74638 Waldenburg, Germany
erklärt in alleiniger Verantwortung / *declares in its sole responsibility* / *déclare sous sa seule responsabilité*

dass das Produkt: *that the product:* *que le produit:*	**Einspeisemodul** *Supply Module* *Module d' Alimentation*
Typ(en) / *type(s)* / *type(s):*	**9193/21-11-11**

mit den Anforderungen der folgenden Richtlinien und Normen übereinstimmt.
is in conformity with the requirements of the following directives and standards.
est conforme aux exigences des directives et des normes suivantes.

Richtlinie(n) / *Directive(s)* / *Directive(s)*	**Norm(en)** / *Standard(s)* / *Norme(s)*
2014/34/EU **ATEX-Richtlinie** *2014/34/EU* *ATEX Directive* *2014/34/UE* *Directive ATEX*	EN IEC 60079-0:2018 EN IEC 60079-7:2015 / A1:2018 EN IEC 60079-15:2019
Kennzeichnung / *marking* / *marquage:*	**Ex II 3 G Ex ec nC IIC T4 Gc** CE
Baumusterprüfbescheinigung: *Type Examination Certificate:* *Attestation d'examen de type:*	**BVS 03 ATEX E 213 X** (DEKRA Testing and Certification GmbH, Dinnendahlstraße 9, 44809 Bochum, Germany, NB0158)
Produktnormen nach Niederspannungsrichtlinie: *Product standards according to Low Voltage Directive:* *Normes des produit pour la Directive Basse Tension:*	**In Anlehnung** / *According to* / *Selon:* EN 50178:1997 EN 61010-1:2010
2014/30/EU **EMV-Richtlinie** *2014/30/EU* *EMC Directive* *2014/30/UE* *Directive CEM*	EN 61326-1:2013
2011/65/EU **RoHS-Richtlinie** *2011/65/EU* *RoHS Directive* *2011/65/UE* *Directive RoHS*	EN 50581:2012

Waldenburg, 2020-05-29

Ort und Datum
Place and date
Lieu et date

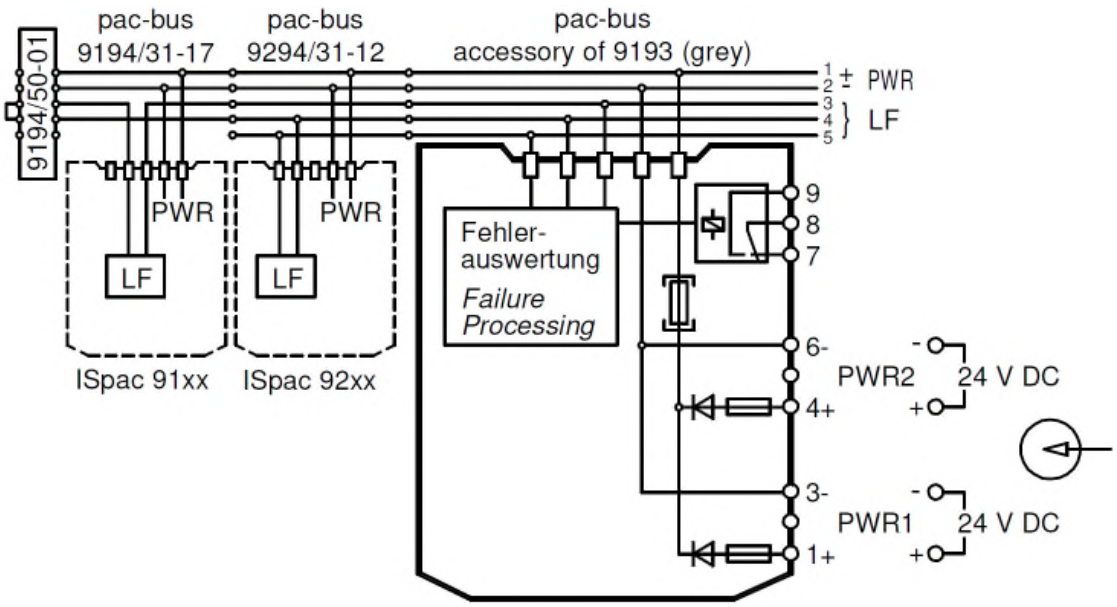
i.V.

Carsten Brenner
Leiter Geschäftsbereich Automation
Vice President Business Unit Automation
Vice-président Business Unit Automation

i.V.

Jürgen Freimüller
Leiter Qualitätsmanagement
Director Quality Management
Directeur Assurance de Qualité

Type 9193/21-11-11
(redundant power supply)



The Supply Module is a nonincendive apparatus for installation in Non-Hazardous, Class I, Division 2 or Zone 2, Hazardous (Classified) Locations.

Notes:

1. Installation should be in accordance with Article 504/505 of the National Electrical Code, ANSI/NFPA 70 and ANSI/ISA RP 12.06.01.
2. Installation in Canada should be in accordance with the Canadian Electrical Code, CSA C22.1, Part 1, Appendix F.
3. Use a general purpose enclosure meeting the requirements of IEC 61010-1 for use in Non-Hazardous or Class I, Division 2, Hazardous (Classified) Locations.
4. Use an FM Approved Dust-ignition proof enclosure appropriate for environmental protection in Class II, Division 1, Groups E, F and G; and Class III, Hazardous (Classified) Locations. (Dust assessment is not part of certificates FM16US0122X / FM16CA0067X)
5. Consider the Specific Conditions of Use as per US certificate (FM16US0122X) and Canadian certificate (FM16CA0067X).
6. Ambient temperature: -40°C … +70°C (any mounting position)

WARNING: Do not disconnect equipment when a flammable or combustable atmosphere is present.
AVERTISSEMENT: Ne pas débrancher l'équipement en présence d'atmosphère inflammable ou combustible.

F 4830 503 G

The safety relevant statements of this document may be transferred into the operating instructions.
Transferring the text, editorial changes of equivalent meaning are allowed.

			2022	Date	Name	Certification drawing	Scale
			drawn	02.12.	Reistle	Supply Module Type 9193/21-11-11	none
			checked		Müller		Sheet 1 of 1
					STAHL	91 936 02 31 1	Agency FM
Version	Date	Name				Ers. f. / Ers. d.	A4