



THE STRONGEST LINK

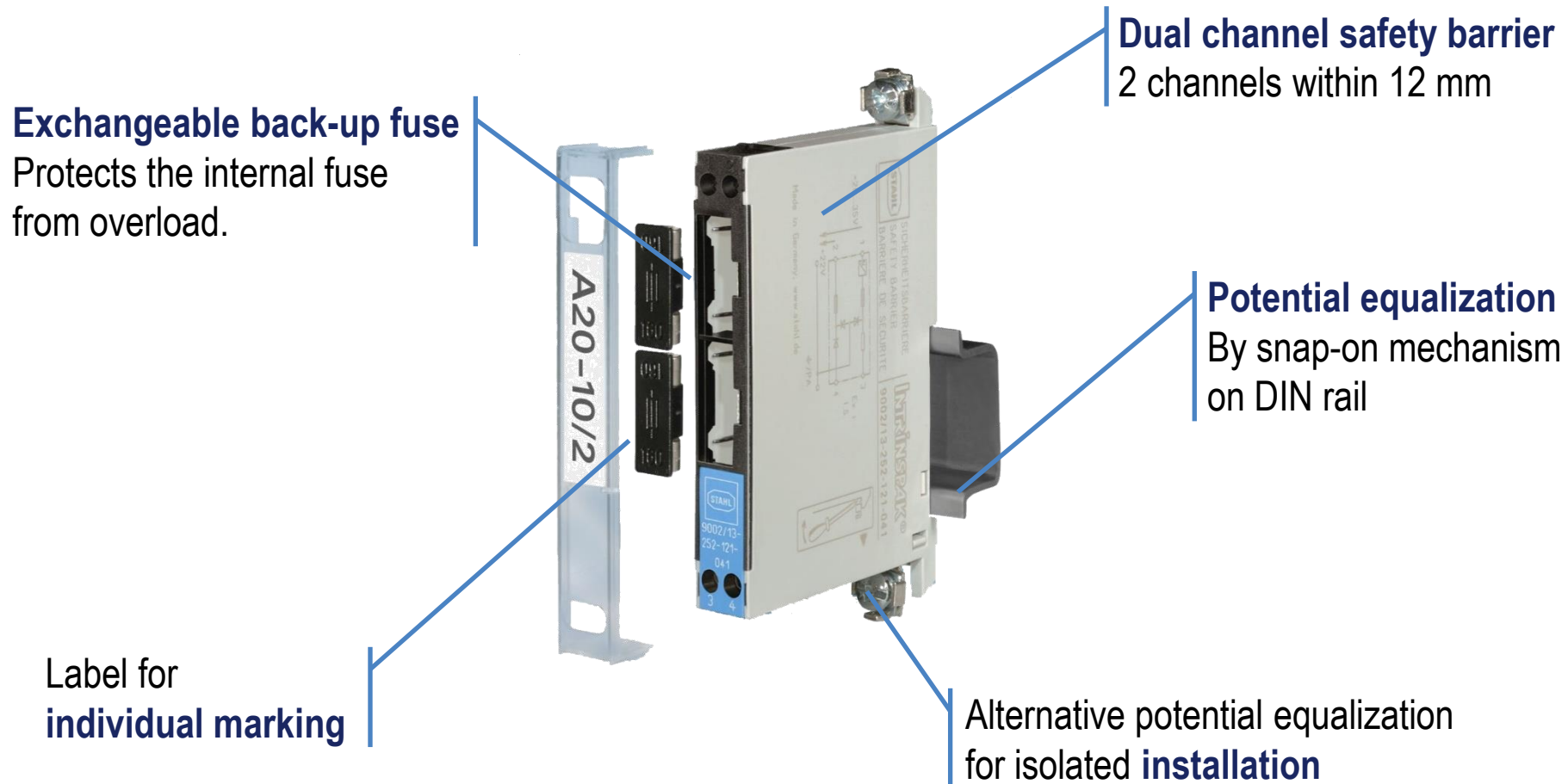
STAHL

MORE THAN YOU EXPECT

INTRISPAK – individual point-to-point solutions



INTRINSPAK – THE HIGHLIGHTS



INTRINSPAK

INTRINSPAK – THE COMPLETE SPECTRUM



The INTRINSPAK portfolio covers all signal types

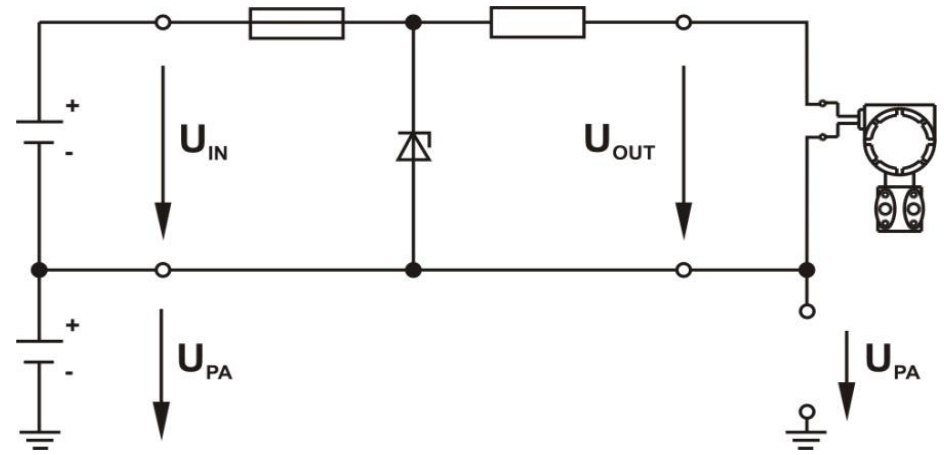
A suitable safety barrier will always be found. R. STAHL offers more than 100 versions.

POTENTIAL EQUALIZATION

- Safety barriers / Zener barriers need always a connection to the „ground“ or better potential equalization system.

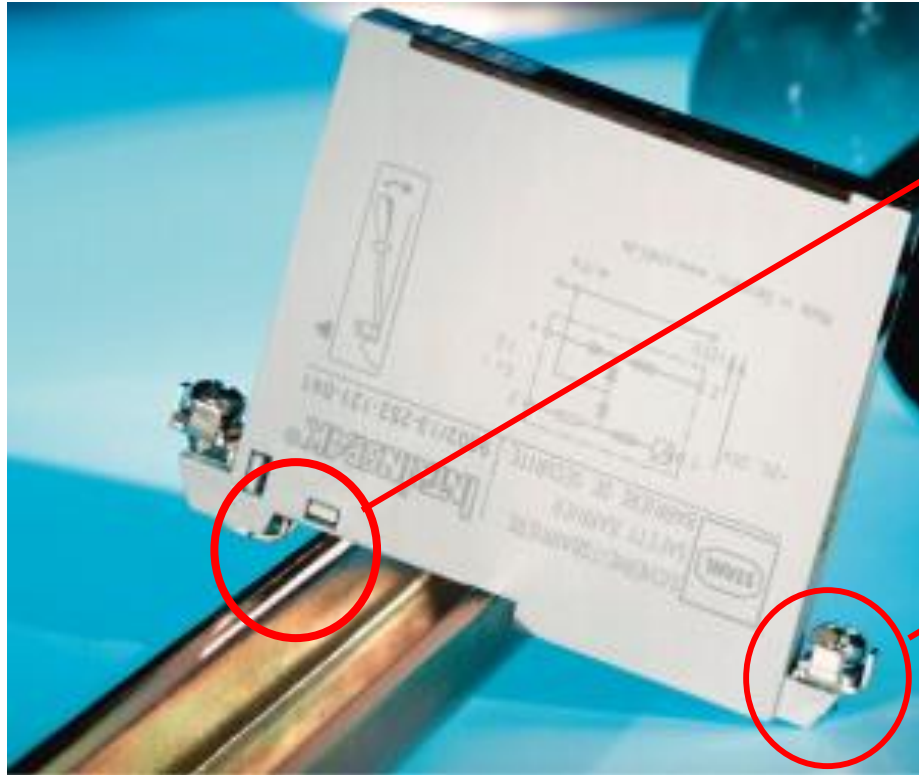
Ways to connect a safety barrier to the PE system:

- Direct
- Via conductive snap-on mechanism
- Potential equalization terminal



INSTALLATION AND GROUNDING IN ONE STEP

The installation of our safety barriers is very simple. The barrier is snapped on DIN rails without a tool.



At the same time a conducting connection between grounding pin and the DIN rail is established.

The safety barriers can alternatively be grounded individually as well by using the terminal.

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EXCHANGEABLE BACK-UP FUSE

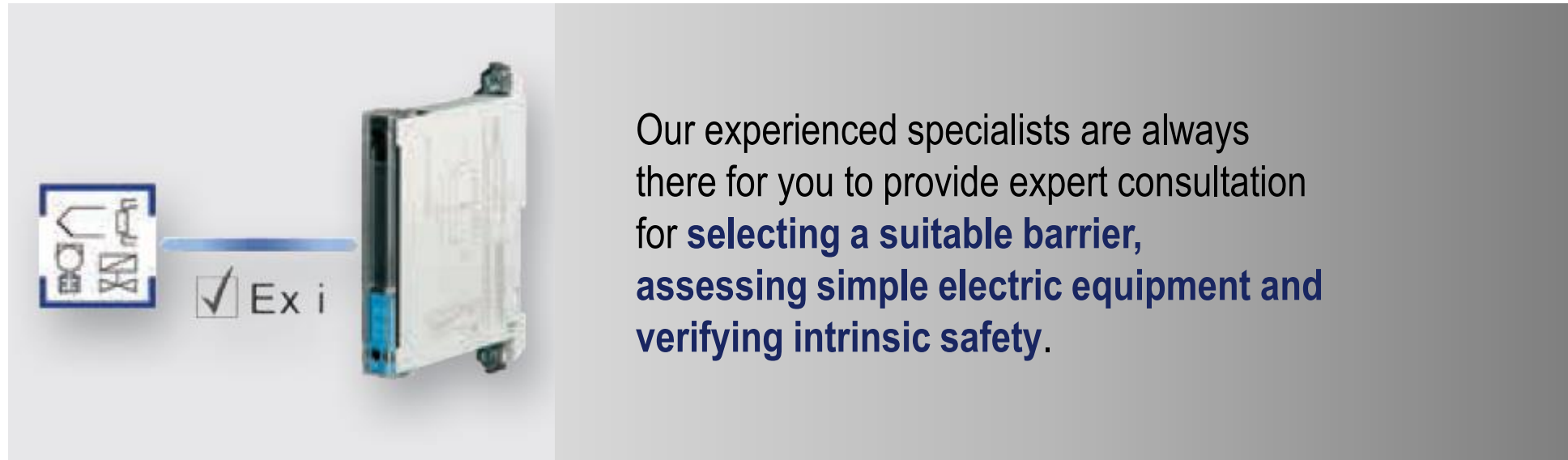
- One exchangeable back-up fuse per channel available
- Single-channel barriers: 1 back-up fuse
- Dual-channel barriers: 2 back-up fuses
- Back-up fuse backs-up the internal fuse ,
i.e. it is always tripping first
- In case of excessively high operating voltage only the
back-up fuse need to be replaced, not the entire barrier

Only one type of back-up fuse is needed for all versions of safety barriers made by R. STAHL



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CONSULTATION AND SERVICE



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ISOLATOR SELECTION GUIDE

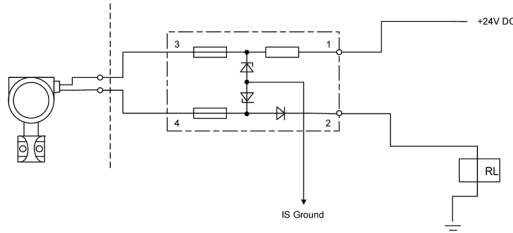
	Type of Signals	Single Channel	Dual Channel	Description
ANALOG INPUT	Interfacing to 2-wire HART 4..20mA transmitter and current source (4-wire) standard 4..20mA transmitter.	9260/13-11-10s	9260/23-11-10s	Active to PLC. HART compatible. 24VDC power required. 12.5mm wide. SIL2.
		9260/19-11-10s	-	Single input, dual output. Active to PLC. HART compatible (1 output). 24VDC power required. 12.5mm wide. SIL2
FREQUENCY CONVERTER	Interfacing to NAMUR type sensors and giving 4..20mA signal output	9146/10-11-12s	9146/20-11-11s	Frequency 0.001..20kHz. Active to PLC. 24VDC power required. 17.6mm wide. Configuration via Software. Cable accessory required.
VIBRATION TRANSDUCER	Interfacing to vibration speed and accelerometer (ie. Bentley Nevada, Metrix)	9147/10-99-10s	9147/20-99-10s	Frequency of up to 50Hz. Input & output signals of -20...-0.5V. 24V DC power required. 17.5 mm wide.
DIGITAL INPUT	Interfacing to dry contacts, NAMUR type sensors (Proximity, inductive, etc).	9270/11-16-14s	9270/21-17-14s	Relay contact to PLC for up to 250V, 2 Amp. 24VDC power required. 12.5mm wide. SIL2.
		9170/11-13-21s	9170/21-12-21s	Relay contact to PLC for up to 250V, 4 Amp. 120V AC power required. 17.6mm wide. SIL2
		9270/11-19-15s	9170/21-14-11s	Passive transistor output per channel for up to 35V, 50mA. Switching Frequency < 10 KHz. 24V DC required.
ANALOG OUTPUT	Interfacing to control valves, I/P converters, loop powered indicators and HART control valves.	9165/16-11-11s	9165/26-11-11s	HART compatible. LFD. 24V DC power required. 17.6mm wide. SIL2
		9167/13-11-00s	9167/23-11-00s	HART compatible. For up to 800 Ohms load. Loop Powered. 17.6mm wide. SIL3
DIGITAL OUTPUT	Interfacing to Solenoid valves, LEDs, Alarms.	9275/10-24-48-11	9175/20-14-11s	40mA @ 12V. 24V DC power required. SIL3
		9276/10-24-48-00	9176/20-14-00s	40mA @ 10.5V. Loop Powered. SIL 3
TEMPERATURE INPUT	Interfacing to RTDs and Potentiometers.	9180/10-77-11s	9180/20-77-11s	RTD repeater (Pt100). Other options available upon request. 24V DC power required. 17.6mm wide.
	Interfacing to thermocouples, RTDs and Potentiometer and converting to 4..20mA signal.	9182/10-51-11s	9182/20-51-11s	Universal temp. convertor. Conf. via dip switches or using PC. Cable accessory might be required. 24V DC power required. 17.6mm wide.
ACCESSORIES	Bus Pac	9194/31-17 or 9294/31-12		Din rail power solution. Required one per isolator.
	End Caps	9194/50-01		Din rail power solution. Required one set per rail.
	Configuration Cable for 9146, 9162, 9182	9199/20-02		Kit to configure isolators. RS232 interphase for PC connection.
	Cold Junction Compensation terminals	9191/VS-05		Needed when using thermocouples on 9182
	Dummy Module	9191/20-00-00		For connection of cables.

Additional Options Available. Please contact your R. STAHL representative.

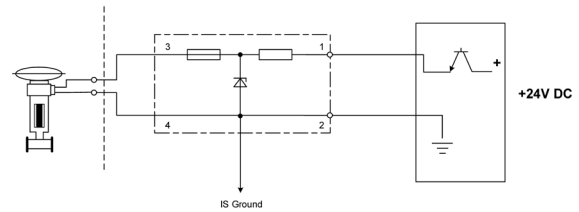
For intrinsically safe loops, all field devices must have an approval certificate from a national recognized test laboratory (FM, CSA, etc.) or being classified as simple apparatus (verification of IS Loop is the responsibility of the customer). Installation must be in accordance with control drawings. Datasheets and certificates are available at www.r-stahl.com

BARRIER SELECTION GUIDE

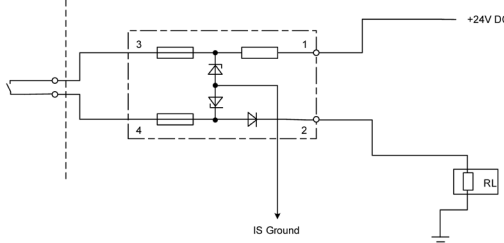
ANALOG INPUT	
9002/13-280-110-001	9002/13-280-093-001



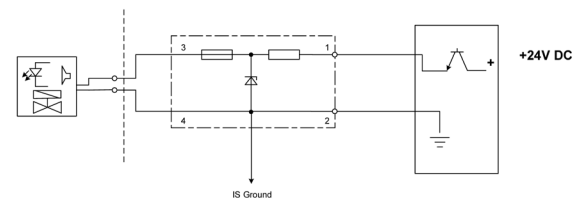
ANALOG OUTPUT
9001/01-280-110-101



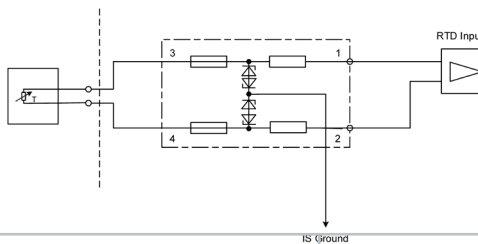
DIGITAL INPUT
9002/13-280-110-001



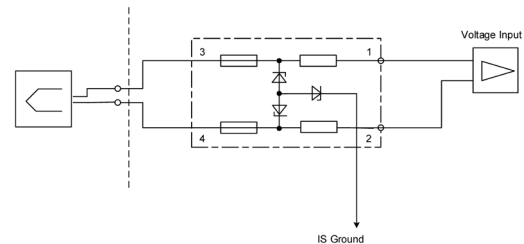
DIGITAL OUTPUT
9001/01-280-110-101



2 WIRE RTDs
9002/22-032-300-111



THERMOCOUPLES
9002/77-093-300-001



ACCESSORIES	Fuses pack of 5	158964
	Fuse holder w/ 5 fuses	S-SFH-001
	Insulating standoff	S-SS0-002
	Din rail Assemblies with stand off	S-NS35/15-xx-RA

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