

- > One unit for nearly all temperature sensors individually configurable
- > Signal duplication possible
- > Galvanic isolation between input, output, power supply and configuration interface
- > Open-circuit and short-circuit monitoring and messaging (can be switched off)
- > Simple configuration with PC or DIP-switches
- > Versions can be used up to SIL 2 (IEC 61508)



06296E00

A3

Basic function: temperature input, Ω , 1 and 2 channels.
The temperature transmitter is used for intrinsically safe operation of temperature sensors. Most currently available sensors can be connected, such as Pt 100, Pt 500, Pt 1000, Ni 100, thermocouples and resistance transmitters. The parameters can be set using parameterising software ISpac Wizard or alternative via DIP-switches.



	ATEX / GOST					
Zone	0	1	2	20	21	22
Installation in			x ^{*)}			x ^{*)}

^{*)} Restrictions see table explosion protection

WebCode 9182B

Selection Table

Version	Channels	Output	Limit value contact (per channel)	SIL	Order number	Tech. data see page
Temperature transmitter Series 9182, field circuit Non-Ex i	1	0/4 ... 20 mA active / source	without	— —	9182/10-51-61s	A3/3
			without	2	9182/10-51-63s	
			2 NO / NC	2	9182/10-51-64s	A3/8
	2	0/4 ... 20 mA passive / sink	without	2	9182/10-59-63s	
		0/4 ... 20 mA active / source	without	— —	9182/20-51-61s	A3/3
Note	The order numbers listed in the table are for transducers equipped with screw terminals. For transducers equipped with spring clamp terminals, replace the ending "s" for screw terminals with "k" for spring clamp terminals. Signal duplication due to parallel connection of inputs of 9182/20-51-... (dual channel). Further information see operating instruction. Limited configuration possibilities via DIP switches - see section "configuration". Complete configuration possibilities by means of parameterisation software ISpac Wizard or customer specific parameterisation ex factory - please see "customer specific set-up sheet"					

Temperature Transmitter with Output 0/4 ... 20 mA
Field Circuit Non-Ex i
 Series 9182/.0-51-61 and 9182/10-5.-63, SIL 2



Explosion Protection

Global (IECEx)	
Gas	IECEX BVS 09.0046X Ex nAc nCc II T4

Europe (ATEX)	
Gas	BVS 08 ATEX E 016 X Ⓔ II 3 G Ex nAc nCc II T4

Russia (GOST-R)	
Gas	2ExnAnCIIT4X

Certificates and approvals	
Certificates	IECEX, ATEX, Kazakhstan (GOST-K), Russia (GOST-R), Ukraine (GOST-U), Belarus (GOST-B)
Other approvals	Ship approval (DNV)

Further parameters	
Installation	in Zone 2 and in the safe area
Further information	see respective certificate and operating instructions

Functional safety (IEC 61508)	
Version	9182/10-5.-63, SIL 2
Test report	Exida FMEDA Stahl 07/07-23-R016
Max. SIL	2
Safe Failure Fraction SFF	78 %
MTBF	120 years (at 40 °C)
PFD _{AVG} at T _[Proof]	T _[Proof] 1 year 3 years 5 years PFD _{AVG} 7.59 x 10 ⁻⁴ 1.44 x 10 ⁻³ 3.48 x 10 ⁻³
Further information	see safety manual and test report

Technical data

Electrical data	
Auxiliary power	
Nominal voltage U _N	24 V DC
Voltage range	18 ... 31.2 V
Residual ripple within voltage range	≤ 3.6 V _{SS}
Nominal current at U _N	
1 channel	70 mA
2 channels	80 mA
Power consumption at U _N	≤ 1.9 W
Power dissipation at U _N	≤ 1.9 W
Reverse polarity protection	yes
Operation indication	LED green "PWR"
Undervoltage monitoring	yes (no faulty module / output states)
Galvanic isolation	
Test voltages	
Input to output	1.5 kV AC
Input to power supply	1.5 kV AC
Input to configuration interface	1.5 kV AC
Input to error contact	1.5 kV AC
Acc. to standard	EN 50178
Output to auxiliary power	350 V AC
Output to configuration interface	350 V AC
Outputs interconnected	350 V AC
Error contact to power supply and outputs	350 V AC
I.S. inputs	
At thermocouples	20 V
At resistance sensors	—

A3

Temperature Transmitter with Output 0/4 ... 20 mA
Field Circuit Non-Ex i
 Series 9182/0-51-61 and 9182/10-5.-63, SIL 2



Technical data

Electrical data

Version	9182/0-51-61			9182/10-5.-63, SIL 2		
Configuration						
Interface						
Version	RS 232 C			RS 232 C		
Software	ISpac Wizard 9199			ISpac Wizard 9199		
Connection	4-pole plug on the front			4-pole plug on the front		
Settings	all device functions and diagnostics			all device functions and diagnostics		
Switch						
Version	12 + 4-pole DIP switch			--		
Settings	Pt 100; thermocouple B, E, J, K, N, R, T with approx. 90 measurement ranges (°C + °F) Pt 100 in 2-, 3- or 4-wire connection Output signal 0/4 ... 20 mA Line fault monitoring activated / deactivated			--		
Input from nonhazardous location	The input parameters can be set via the parameterising software ISpac Wizard or DIP switch.			The input parameters can be set via the parameterising software ISpac Wizard.		
Input resistance thermometer						
	Types	Standard	Basic range [°C]	Min. span	Middle resolution	Middle measurement error
	Pt 100 Pt 500 Pt 1000	IEC 60751	- 200 ... + 850	50 K	0.1 K	0.35 K
	Ni 100 Ni 500 Ni 1000	DIN 43760	- 60 ... + 180	31 K	0.1 K	0.25 K
Type of circuit	2-, 3-, 4-wire circuit					
Linearity	temperature / resistance					
Measuring current	≤ 0.25 mA					
Max. line resistor each core	50 Ω (2-wire connection) 100 Ω (3-, 4-wire connection)					
Input thermocouple						
	Types	Standard	Basic range [°C]	Min. span	Middle resolution	Middle measurement error
	B	IEC 60584	250 ... 1800	314 K	0,1 K	1,2 K
	E		- 200 ... 1000	36 K	0,1 K	0,2 K
	J		- 200 ... 1200	42 K	0,1 K	0,2 K
	K		- 200 ... 1370	63 K	0,1 K	0,3 K
	N		- 200 ... 1300	75 K	0,1 K	0,3 K
	R		- 50 ... 1767	171 K	0,1 K	0,7 K
	S		- 50 ... 1767	185 K	0,1 K	0,8 K
	T		- 200 ... 400	60 K	0,1 K	0,3 K
	L	DIN 43710	- 200 ... 900	55 K	0,1 K	0,3 K
	U		- 200 ... 600	48 K	0,1 K	0,3 K
	XK	GOST	- 200 ... 800	50 K	0,1 K	0,2 K
Linearity	temperature / voltage					
Max. line resistance per conductor	≤ 1000 Ω					
External references	Pt 100 2-wires connection (-40 ... +85 °C / -40 ... +185 °F) constant temperature (-40 ... +85 °C / -40 ... +185 °F)					
Input resistance transmitter (TRD)						
	Basic measuring range		Middle measurement error			
	50 ... 500 Ω		0,1 Ω			
	0,5 ... 5 kΩ		1 Ω			
	1 ... 10 kΩ		2 Ω			
	10 ... 100 kΩ *)		--			
	*) with parallel 10 kΩ Shunt, no open-circuit detection					
Circuit type	3-wire connection					
Measuring current	≤ 0.25 mA					

Temperature Transmitter with Output 0/4 ... 20 mA
Field Circuit Non-Ex i
 Series 9182/0-51-61 and 9182/10-5-63, SIL 2



Technical data

Electrical data

Version	0/4 ... 20 mA, active / source 9182/1.-51-6.	0/4 ... 20 mA, passive / sink 9182/10-59-63
Output		
Output signal	0/4 ... 20 mA (configurable)	--
Function range	0 ... 21 mA	--
Connectable load resistance R_L		
1 channel	0 ... 750 Ω	0 ... 750 Ω
2 channels	0 ... 600 Ω	--
Resolution	$\leq 1 \mu A$	--
Response time (10 ... 90 %)	≤ 35 ms	--
Delay input - output	≤ 500 ms	--
Passive output		
Output signal	--	Current sink 0/4 ... 20 mA (configurable)
Supply voltage	--	max. 31.2 V DC
Internal voltage drop	--	≤ 3.0 V
Minimum load resistance R_L	--	0 Ω at 3 ... 20 V 200 Ω at 24 V 500 Ω at 30 V
Fault detection input		
Open-circuit	for resistance thermometers, thermocouples and resistance transmitters > 1 k Ω	
Short-circuit	for resistance thermometers with temperature linearisation and resistance transmitters	
Behaviour of the output	2,4 mA (configurable 0 ... 23 mA or "hold last value")	
Settings (switch LF)	activated / deactivated	
Error detection	LED red "LF"	
Signalization of line fault and power supply failure	- Contact (30 V / 100 mA) closed to ground in case of fault - pac-Bus, floating contact (30 V / 100 mA)	
Fault limits		
Middle measurement error	Accuracy, typical data expressed as % of calibrated span at U_N , 23 °C	
Temperature effect	≤ 0.1 %	
Electromagnetic compatibility	≤ 0.1 % / 10 K	
	Tested under the following standards and regulations: EN 61326-1 Use in industrial environment; NAMUR NE 21	

Ambient conditions

Ambient temperature	
Single device	-20 ... +70 °C / -4 ... +158 °F
Group assembly	-20 ... +60 °C / -4 ... +140 °F
	The installation conditions affect the ambient temperature. Observe operating instructions
Storage temperature	-40 ... +80 °C / -40 ... +176 °F
Relative humidity (no condensation)	≤ 95 %

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Temperature Transmitter with Output 0/4 ... 20 mA
Field Circuit Non-Ex i
 Series 9182/.0-51-61 and 9182/10-5-.63, SIL 2

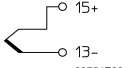
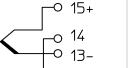
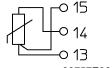
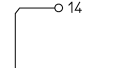
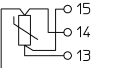
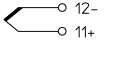
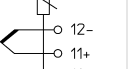
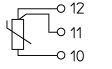
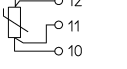
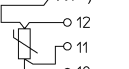


Technical data

Electrical connection

Version
 Configuration input

9182/.0-51-61

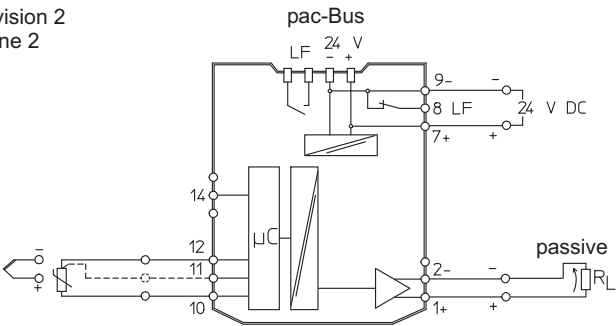
	Thermocouple		Resistance thermometer / Resistance transmitter (TRD)			
	Cold junction compensation const. temp.	ext. Pt. 100	2-wire	3-wire	4-wire (1 channel)	4-wire (2 channels)
Channel 2	 09754E00	 09755E00	 09756E00	 09757E00	 07110E00	 06525E00
Channel 1	 09759E00	 09755E00	 09760E00	 09761E00	 07110E00	 06525E00

*) The connection of two sensors in 4-wire scheme requires an additional external terminal X1.

Connection diagram

1 channel
9182/10-51-61

Safe area
 Division 2
 Zone 2

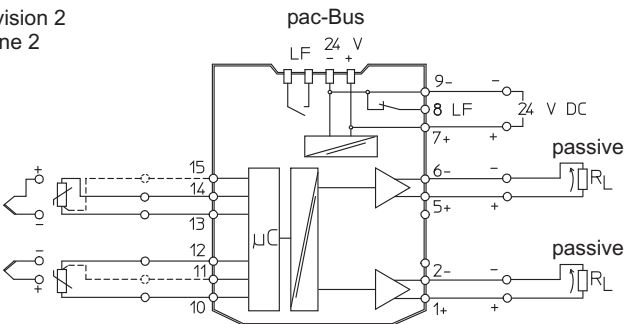


Field device ISpac Isolator Control system

07213E02

2 channels
9182/20-51-61

Safe area
 Division 2
 Zone 2



Field device ISpac Isolator Control system

07220E02

Temperature Transmitter with Output 0/4 ... 20 mA
Field Circuit Non-Ex i
 Series 9182/.0-51-61 and 9182/10-5.-63, SIL 2



Technical data

Electrical connection

Version

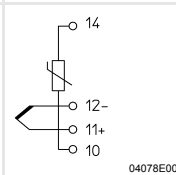
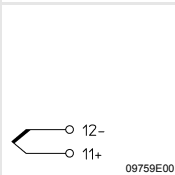
Configuration input

9182/10-5.-63, SIL 2

Thermocouple

Cold junction
compensation
const. temp.

ext. Pt. 100

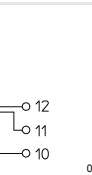
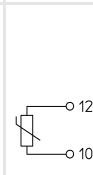


Resistance thermometer / Resistance transmitter (TRD)

2-wire

3-wire

4-wire



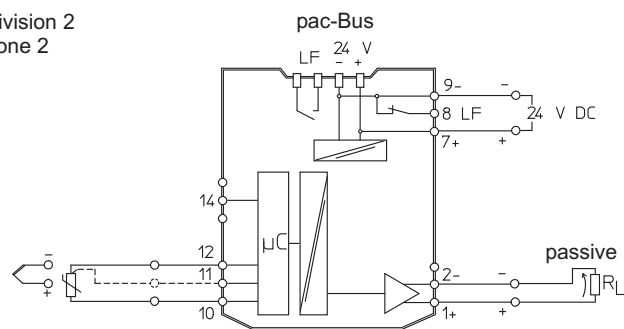
Connection diagram

1 channel
9182/10-51-63

Safe area

Division 2

Zone 2



Field device

ISpac Isolator

Control system

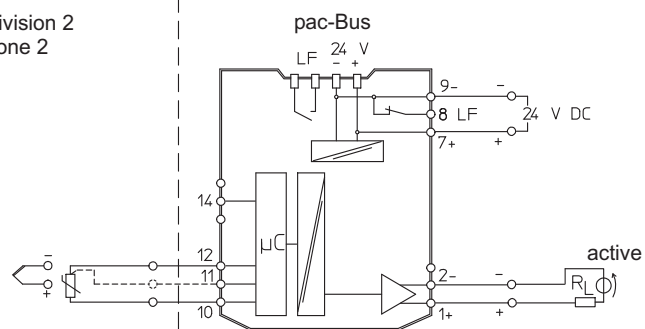
07213E02

1 channel, passive
9182/10-59-63

Safe area

Division 2

Zone 2



Field device

ISpac Isolator

Control system

07434E02

A3

Temperature Transmitter with Output 0/4 ... 20 mA and Limit Value Contact Field Circuit Non-Ex i

Series 9182/10-51-62 and 9182/10-51-64, SIL 2



Explosion Protection

Global (IECEx)

Gas	IECEx BVS 09.0046X Ex nAc nCc II T4
-----	--

Europe (ATEX)

Gas	BVS 08 ATEX E 016 X II 3 G Ex nAc nCc II T4
-----	--

Russia (GOST-R)

Gas	2ExnAnCIIT4X
-----	--------------

Certificates and approvals

Certificates	IECEx, ATEX, Kazakhstan (GOST-K), Russia (GOST-R), Ukraine (GOST-U), Belarus (GOST-B)
Other approvals	Ship approval (DNV)

Further parameters

Installation	in Zone 2 and in the safe area
Further information	see respective certificate and operating instructions

Functional safety (IEC 61508)

Version	9182/10-51-64, SIL 2			
Test report	Exida STAHL 07/07-23 R016 and STAHL 07/07-23 R017			
Max. SIL	2			
Safe Failure Fraction SFF	4 ... 20 mA	Limit value contact	Limit value contact parallel	
	78 %	78.4 %	81.1 %	
	MTBF	4 ... 20 mA	Limit value contact	Limit value contact parallel
PFD _{AVG} at T _[Proof]	120 years	114 years	114 years	
	4 ... 20 mA	Limit value contact	Limit value contact parallel	
	1 year	7.59 x 10 ⁻⁴	7.03 x 10 ⁻⁴	6.17 x 10 ⁻⁴
	2 years	1.44 x 10 ⁻³	1.34 x 10 ⁻³	1.17 x 10 ⁻³
	5 years	3.48 x 10 ⁻³	3.23 x 10 ⁻³	2.84 x 10 ⁻³
	Further information	see safety manual and test report		

Technical data

Electrical data

Auxiliary power	
Nominal voltage U _N	24 V DC
Voltage range	18 ... 31.2 V
Residual ripple within voltage range	≤ 3.6 V _{SS}
Nominal current at U _N	70 mA
Power consumption at U _N	≤ 1.9 W
Power dissipation at U _N	≤ 1.9 W
Reverse polarity protection	yes
Operation indication	LED green "PWR"
Undervoltage monitoring	yes (no faulty module / output states)
Galvanic isolation	
Test voltages	
Input to output	1.5 kV AC
Input to power supply	1.5 kV AC
Input to configuration interface	1.5 kV AC
Input to error contact	1.5 kV AC
Acc. to standard	EN 50178
Output to auxiliary power	350 V AC
Output to configuration interface	350 V AC
Outputs interconnected	350 V AC
Error contact to power supply and outputs	350 V AC
I.S. inputs	
At thermocouples	20 V
At resistance sensors	--

Temperature Transmitter with Output 0/4 ... 20 mA and Limit Value Contact
Field Circuit Non-Ex i
 Series 9182/10-51-62 and 9182/10-51-64, SIL 2



Technical data

Electrical data

Configuration

Interface

Version

Software

Connection

Settings

Input from nonhazardous location

Input resistance thermometer

RS 232 C
 ISpac Wizard 9199
 4-pole plug on the front
 all device functions and diagnostics

The input parameters can be set via parameterising software ISpac Wizard.

Types	Standard	Basic range [°C]	Min. span	Middle resolution	Middle measure- ment error
Pt 100 Pt 500 Pt 1000	IEC 60751	- 200 ... + 850	50 K	0.1 K	0.35 K
Ni 100 Ni 500 Ni 1000	DIN 43760	- 60 ... + 180	31 K	0.1 K	0.25 K

Type of circuit

Linearity

Measuring current

Max. line resistor each core

Input thermocouple

2-, 3-, 4-wire circuit
 temperature / resistance
 ≤ 0.25 mA
 50 Ω (2-wire connection)
 100 Ω (3-, 4-wire connection)

Types	Standard	Basic range [°C]	Min. span	Middle resolution	Middle measurement error
B	IEC 60584	250 ... 1800	314 K	0,1 K	1,2 K
E		- 200 ... 1000	36 K	0,1 K	0,2 K
J		- 200 ... 1200	42 K	0,1 K	0,2 K
K		- 200 ... 1370	63 K	0,1 K	0,3 K
N		- 200 ... 1300	75 K	0,1 K	0,3 K
R		- 50 ... 1767	171 K	0,1 K	0,7 K
S		- 50 ... 1767	185 K	0,1 K	0,8 K
T	DIN 43710	- 200 ... 400	60 K	0,1 K	0,3 K
L		- 200 ... 900	55 K	0,1 K	0,3 K
U		- 200 ... 600	48 K	0,1 K	0,3 K
XK	GOST	- 200 ... 800	50 K	0,1 K	0,2 K

Linearity

Max. line resistance per
conductor

External references

Input resistance transmitter
(TRD)

temperature / voltage
 $\leq 1000 \Omega$
 Pt 100 2-wires connection (-40 ... +85 °C / -40 ... +185 °F)
 constant temperature (-40 ... +85 °C / -40 ... +185 °F)

Basic measuring range	Middle measurement error
50 ... 500 Ω	0,1 Ω
0,5 ... 5 k Ω	1 Ω
1 ... 10 k Ω	2 Ω
10 ... 100 k Ω *)	--

*) with parallel 10 k Ω Shunt, no open-circuit detection

Circuit type

Measuring current

Output

Output signal

Function range

Connectable load resistance R_L

Resolution

Response time (10 ... 90 %)

Delay input - output

3-wire connection
 ≤ 0.25 mA
 0/4 ... 20 mA (configurable)
 0 ... 21 mA
 0 ... 750 Ω
 $\leq 1 \mu A$
 ≤ 35 ms
 ≤ 500 ms

A3

Temperature Transmitter with Output 0/4 ... 20 mA and Limit Value Contact Field Circuit Non-Ex i

Series 9182/10-51-62 and 9182/10-51-64, SIL 2



Technical data

Electrical data

Limiting values	
Message	2 NO / NC (configurable using ISpac Wizard)
Switching voltage	$\leq \pm 30$ V
Switching current (resistive load)	≤ 100 mA
On-resistance	$\leq 2.5 \Omega$ (typical $< 1 \Omega$)
Lockout function	Reset using the DIP switch or „Power-Off“ (configurable)
Fault detection input	
Open-circuit	for resistance thermometers, thermocouples and resistance transmitters > 1 k Ω
Short-circuit	for resistance thermometers with temperature linearisation and resistance transmitters
Behaviour of the output	2,4 mA (configurable 0 ... 23 mA or "hold last value")
Settings (switch LF)	activated / deactivated
Error detection	LED red "LF"
Signalization of line fault and power supply failure	- Contact (30 V / 100 mA) closed to ground in case of fault - pac-Bus, floating contact (30 V / 100 mA)
Fault limits	
Middle measurement error	Accuracy, typical data expressed as % of calibrated span at U_N , 23 °C ≤ 0.1 %
Temperature effect	≤ 0.1 % / 10 K
Electromagnetic compatibility	Tested under the following standards and regulations: EN 61326-1 Use in industrial environment; NAMUR NE 21

Ambient conditions

Ambient temperature	
Single device	-20 ... +70 °C / -4 ... +158 °F
Group assembly	-20 ... +60 °C / -4 ... +140 °F
	The installation conditions affect the ambient temperature. Observe operating instructions
Storage temperature	-40 ... +80 °C / -40 ... +176 °F
Relative humidity (no condensation)	≤ 95 %

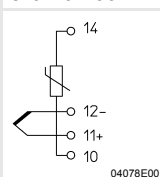
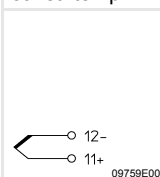
Electrical connection

Configuration input

Thermocouple

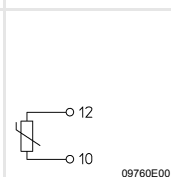
Cold junction compensation
const. temp.

ext. Pt. 100

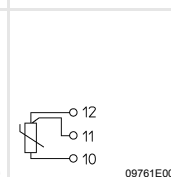


Resistance thermometer / Resistance transmitter (TRD)

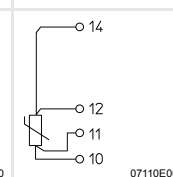
2-wire



3-wire



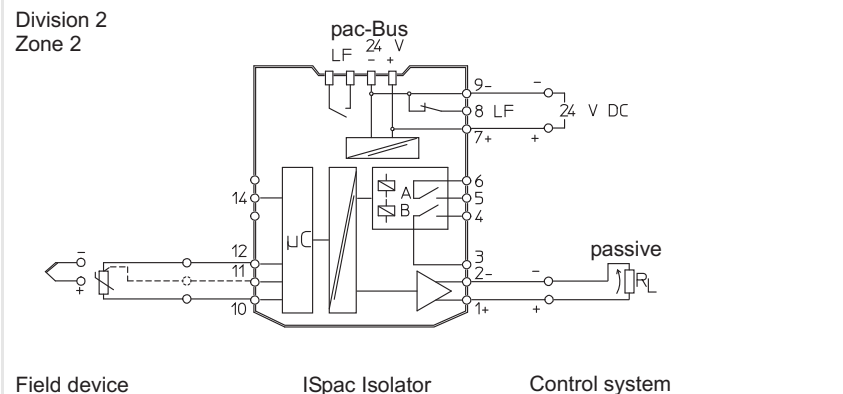
4-wire



Connection diagram

Safe area

Division 2
Zone 2



07218E02

Technical data

Mechanical data

Connection	Screw terminals	Spring clamp terminals
Connection single-wire		
- rigid	0.2 ... 2.5 mm ² / 24 ... 14 AWG	0.2 ... 2.5 mm ² / 24 ... 14 AWG
- flexible	0.2 ... 2.5 mm ² / 24 ... 14 AWG	0.2 ... 2.5 mm ² / 24 ... 14 AWG
- flexible, end covering sleeves (without / with plastic sleeving)	0.25 ... 2.5 mm ² / 22 ... 14 AWG	0.25 ... 2.5 mm ² / 22 ... 14 AWG
Connection two wires		
- rigid	0.2 ... 1 mm ² / 24 ... 14 AWG	- -
- flexible	0.2 ... 1.5 mm ² / 24 ... 16 AWG	- -
- flexible, end covering sleeves	0.25 ... 1 mm ² / 22 ... 16 AWG	0.5 ... 1 mm ² / 20 ... 16 AWG
Weight	approx. 160	
Installation type	on DIN rail (NS35/15, NS35/7.5) or in pac-Carrier	
Installation position	vertical or horizontal	
Ingress protection		
Enclosure	IP30	
Terminals	IP20	
Enclosure material	PA 6.6	
Fire resistance (UL-94)	V0	

A3

Accessories and Spare Parts

Designation	Description	Order number
Front cover	yellow, transparent Explicit marking of devices used for SIL applications. (Packing unit: 10 pieces)	200914
Reference	Serves for measurement of the junction temperature with a Pt 100 in 2-wires circuit	
	Compact screw terminal (applicable for single- or dual-channel terminal)	9191/VS-05
	Terminal (DIN-rail assembly) for the single-channel version 9182	9191/VS-03
	Terminal (DIN-rail assembly) for the dual-channel version 9182	9191/VS-04
Parameterising set - ISpac - Wizard	The software is used to commission, configure and diagnose on the ISpac Isolators Series 9146, 9162 and 9182. For further information see operating instructions. Supplied: as CD-ROM; Parameterising software incl. Parameterising cable / adapter. System requirements: • IBM compatible PC with MS Windows 98, NT, 2000, XP, Vista, Windows 7 • CD-ROM drive • RS 232 C interface • RS 232 / USB adapter	9199/20-02

Dimensional Drawings (All Dimensions in mm / inch) - Subject to Alterations

	Dimension X			
	<table> <tr> <td>Screw terminals</td><td>108 mm / 4.25"</td></tr> <tr> <td>Spring cage terminals</td><td>128 mm / 5.04"</td></tr> </table>	Screw terminals	108 mm / 4.25"	Spring cage terminals
Screw terminals	108 mm / 4.25"			
Spring cage terminals	128 mm / 5.04"			

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice.
 The illustrations cannot be considered binding.

Customer-specific parameterisation

R. STAHL offers the service to configure ISpac isolators according to your requirements.

There are two options:

1. The form can be downloaded on the product page ISpac, section "Data sheet". Please edit the form directly on your PC.
2. Download the software at ISpac Wizard free: "<http://www.r-stahl.com/downloads/software/ex-i-isolators.html>". Create them using the software configuration. Forward the .prj file to your R. STAHL sales office.

Order-No.: - Pos.: Pieces:

Type	Channels	Output	Limit value
☐ 9182 / 10 - 51 - 61.	1	0/4...20 mA	none
☐ 9182 / 10 - 51 - 63.	1	0/4...20 mA	none
☐ 9182 / 20 - 51 - 61.	2	0/4...20 mA	none
☐ 9182 / 10 - 51 - 62.	1	0/4...20 mA	2 NC / NO
☐ 9182 / 10 - 51 - 64.	1	0/4...20 mA	2 NC
☐ 9182 / 10 - 59 - 63.	1	passive	none

with: ☐ Screw terminal s (standard) ☐ Spring clamp terminal k

Please read the operating instructions before you fill in the following form. Please select only one item parameter and channel.

	Default	Channel 1	Channel 2
Signal-Tag	ID-Nr.		
Input			
Resistance Thermometer	☒	☐	
Sensor type	PT 100	☐ PT 100 ☐ PT 500 ☐ PT 1000 ☐ NI 100 ☐ NI 500 ☐ NI 1000	☐ PT 100 ☐ PT 500 ☐ PT 1000 ☐ NI 100 ☐ NI 500 ☐ NI 1000
Circuit type	3-Wires	☐ 2-Wires ☐ 3-Wires ☐ 4-Wires	☐ 2-Wires ☐ 3-Wires ☐ 4-Wires
Measurement range	0 °C ... 400 °C	from to ☐ °C ☐ °F ☐ K ☐ Ω	from to ☐ °C ☐ °F ☐ K ☐ Ω
Thermocouple		☐	
Type		☐ Type B ☐ Type E ☐ Type L ☐ Type K ☐ Type N ☐ Type R ☐ Type S ☐ Type T ☐ Type J ☐ Type U ☐ Type XK	☐ Type B ☐ Type E ☐ Type J ☐ Type K ☐ Type N ☐ Type R ☐ Type S ☐ Type T ☐ Type L ☐ Type U ☐ Type XK
CJC type		☐ external PT 100 ☐ fixed Temp. ☐ internal	☐ external PT 100 ☐ fixed Temp. ☐ internal
Measurement range		from to ☐ °C ☐ °F ☐ K ☐ mV	from to ☐ °C ☐ °F ☐ K ☐ mV
Resistance Transmitter		☐	
Range		☐ up to 500 Ω ☐ up to 5 kΩ ☐ up to 10 kΩ ☐ up to 100 kΩ (+ Shunt)	☐ up to 500 Ω ☐ up to 5 kΩ ☐ up to 10 kΩ ☐ up to 100 kΩ (+ Shunt)
Measurement range		from % to %	from % to %
Output (only 9182/*0-51-6* and 9182/*0-59-6*)			
Signal	4 mA ... 20 mA	☐ 0 mA ... 20 mA ☐ 4 mA ... 20 mA	☐ 0 mA ... 20 mA ☐ 4 mA ... 20 mA
Fault behavior	Output Fault value	☐ Hold last value (start with fault value) ☐ Fault control off ☐ Output Fault value: (standard 2.4 mA)	☐ Hold last value (start with fault value) ☐ Fault control off ☐ Output Fault value: (standard 2.4 mA)
Limit value for Relay A (9182/10-51-62 and 9182/10-51-64.)			
Signaling	inactive	☐ active ☐ inactive	☐ active ☐ inactive
Value	25 %	% or absolute:	% or absolute:
Behavior contact	inactive	☐ inactive ☐ closes, if value > limit value *) ☐ closes, if value < limit value *) ☐ opens, if value > limit value ☐ opens, if value < limit value	☐ inactive ☐ closes, if value > limit value *) ☐ closes, if value < limit value *) ☐ opens, if value > limit value ☐ opens, if value < limit value
Hysteresis	1 %	% (0.1 % ... 10 %)	% (0.1 % ... 10 %)
Lockout function	inactive	☐ active ☐ inactive ☐ active-pwrrst	☐ active ☐ inactive ☐ active-pwrrst
Limit value for Relay B (9182/10-51-62 and 9182/10-51-64.)			
Signaling	inactive	☐ active ☐ inactive	☐ active ☐ inactive
Value	75 %	% or absolute:	% or absolute:
Behavior contact	inactive	☐ inactive ☐ closes, if value > limit value *) ☐ closes, if value < limit value *) ☐ opens, if value > limit value ☐ opens, if value < limit value	☐ inactive ☐ closes, if value > limit value *) ☐ closes, if value < limit value *) ☐ opens, if value > limit value ☐ opens, if value < limit value
Hysteresis	1 %	% (0.1 % ... 10 %)	% (0.1 % ... 10 %)
Lockout Function	inactive	☐ active ☐ inactive ☐ active-pwrrst	☐ active ☐ inactive ☐ active-pwrrst

*) Not for ISpac 9182/10-51-64.

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