



- Universal use for transmitters and mA sources (4-wire transmitters) with two configurable limit values and one 4 to 20 mA output
- Bidirectional HART transmission

A3

MY R. STAHL 9162A



9162 series transmitter supply units with limit values can be used for the intrinsically safe operation of two- and three-wire transmitters or for connecting to intrinsically safe mA sources. Two limit values can be easily set using the "ISpac Wizard" software. If the value exceeds or falls below these limit values, these units will trip an electronic contact. A wire-breakage and short-circuit monitoring function provides increased availability.

	IECEX / ATEX					
Zone	0	1	2	20	21	22
Ex interface	•	•	•	•	•	•
Installation in			•			

	NEC® 500 CE Code Appendix J					
	Class I		Class II		Class III	
Division	1	2	1	2	1	2
Ex interface	•	•	•	•	•	•
Installation in		•				

	CE Code Section 18 NEC® 505 Class I					
	NEC® 506					
Zone	0	1	2	20	21	22
Ex interface	•	•	•			
Installation in			•			

Selection Table

Number of channels	1					
Input	Output	Limit contact (per channel)	Connection type	Product Type	Art. No.	Weight
4 to 20 mA with HART	4 to 20 mA with HART	2 NO	Screw terminal	9162/13-11-14s	238251	225 g
		2 NO	Spring clamp terminal	9162/13-11-14k	238252	225 g

Parameterisation ex works optionally available for all variants. Art. No. 270538

Technical Data

Explosion Protection	
IECEX gas explosion protection	Ex nA nC [ia Ga] IIC T4 Gc
IECEX dust explosion protection	[Ex ia Da] IIIC
ATEX gas explosion protection	Ⓔ II 3 (1) G Ex nA nC [ia Ga] IIC T4 Gc
ATEX dust explosion protection	Ⓔ II (1) D [Ex ia Da] IIIC
Certificates	ATEX (BVS), Canada (FM), China (NEPSI), IECEX (BVS), SIL (exida), USA (FM)
Ship approval	CCS, EU RO MR (DNV)
Declaration of conformity	ATEX (EUK), China (CCC)
Safety Data	
Max. voltage U_o	27 V
Max. current I_o	87.9 mA
Max. power P_o	574 mW
Safety-related max. voltage	253 V

Technical Data

Electrical Data

Limiting values configuration Using ISpac Wizard (V3.04 and more recent)

Auxiliary Power

Auxiliary power 24 V DC

Nominal current 85 mA

Output

Output signal 4 to 20 mA with HART

Load resistance R_L 0 to 600 Ω (terminal 1+/2-)

Switching voltage limiting values $\leq \pm 30$ V

Switching current limiting values ≤ 170 mA

Line fault and loss of power signalisation
- Contact (30 V/100 mA), closed against earth in case of error
- pac-Bus, potential-free contact (30 V/100 mA)

Ambient Conditions

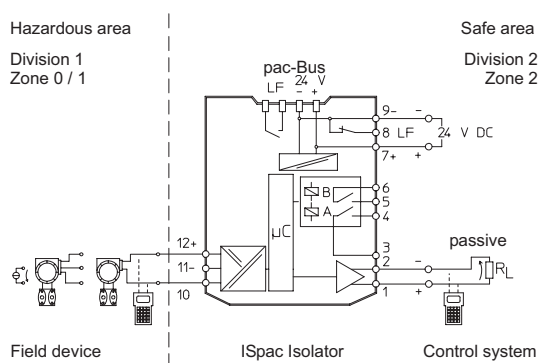
Ambient temperature
-40 °C ... 70 °C (Single device)
-40 °C ... 60 °C (Group assembly)

Storage temperature -40 °C ... 80 °C

Mounting / Installation

Mounting type DIN rail NS35/15, NS35/7.5

Technical Drawings – Subject to Alterations

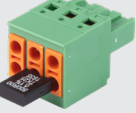


Connection diagram 9162/13-11-14

Accessories

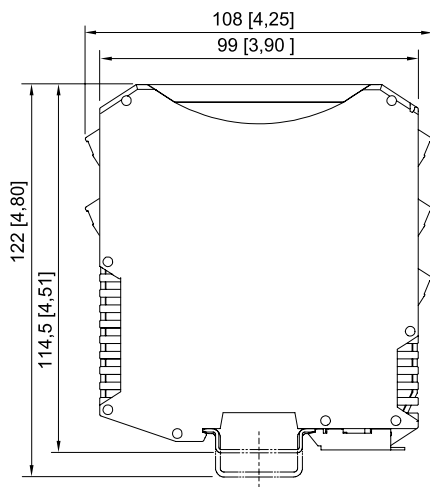
Figure	Description	Art. No.	Weight
	9162 Parameterisation		
	Parameterisation ex works optionally available for all variants.	270538	-
	ISpac Wizard parameterising set		
	The software is used to commission, configure and diagnose Series 9146, 9162 and 9182 ISpac isolators. For further information, see the operating instructions. Delivery form: USB stick; parameterising software incl. parameterising cable/adaptor System requirements: IBM-compatible PC with MS XP, Vista, Windows 7, 10 RS 232 C interface RS 232/USB adaptor	202595	235 g

Accessories

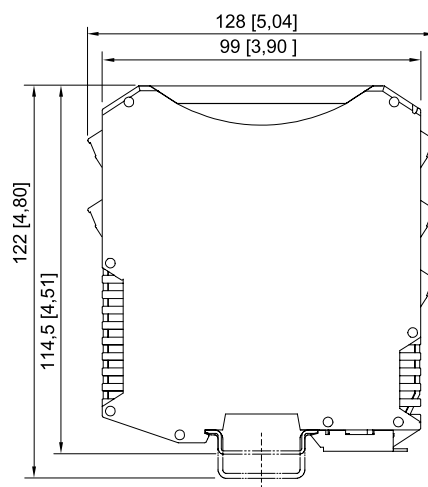
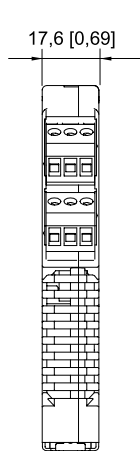
Figure	Description	Art. No.	Weight
Resistive coupling element			
	The 0/4 to 20 mA signal of channel 1 is converted to a 0/2 to 10 V signal. The resistive coupling element replaces the existing connection terminal. (Set with 5 pieces)	273968	60 g

Spare Parts

Figure	Description	Art. No.	Weight
Screw terminal			
	3-pole plug, screw connector thread: M3 stripping length: 7 mm colour: green	112817	5 g
	3-pole plug, screw connector thread: M3 stripping length: 7 mm colour: black	112816	5 g
	3-pole plug, screw connector thread: M3 stripping length: 7 mm colour: blue	112818	5 g
Spring clamp terminal			
	3-pole plug with test tap, spring clamp connection stripping length: 10 mm colour: green	112825	5 g
	3-pole plug with test tap, spring clamp connection stripping length: 10 mm colour: black	112824	5 g
	3-pole plug with test tap, spring clamp connection stripping length: 10 mm colour: blue	112826	5 g



ISpac Series 9143, 9146, 9147, 9160, 9162, 9163, 9165, 9167, 9170, 9172, 9175, 9176, 9180, 9182, 9193, ISbus Series 9412 with screw terminal



ISpac Series 9146, 9147, 9160, 9162, 9163, 9165, 9167, 9170, 9172, 9175, 9176, 9180, 9182, 9193, ISbus Series 9412 with spring clamp terminal

