



- 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

WebCode **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		•				

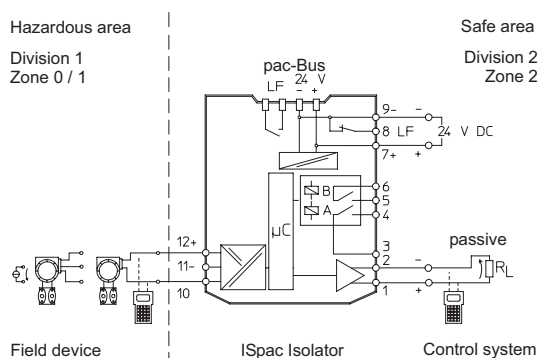
	CE Code Section 18					
	NEC® 505			NEC® 506		
Zone	Class I			20	21	22
Ex interface	0	1	2			
Ex interface	•	•	•			
Installation in			•			

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

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
Electrical Data	
Limiting values configuration	using ISpac wizard (V3.04 and following)

Technical Data	
Auxiliary Power	
Auxiliary power	24 V DC
Nominal current	85 mA
Input	
Line fault and loss of power signalisation	- Contact (30 V / 100 mA) closed to ground in case of fault - pac-Bus, floating contact (30 V / 100 mA)
Output	
Output signal	4 to 20 mA with HART
Load resistance R_L	0 ... 600 Ω (terminal 1+ / 2-)
Switching voltage limiting values	$\leq \pm 30$ V
Switching current limiting values	≤ 170 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

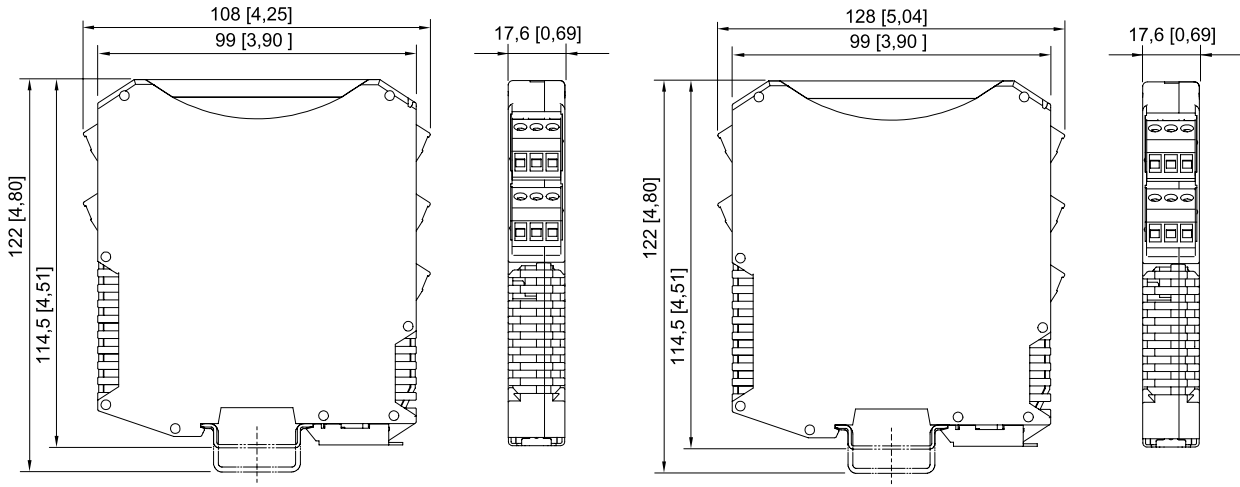


Connection diagram 9162/13-11-14

Accessories

Figure	Description	Art. No.	Weight
9162 Parameterisation			
	Parameterisation ex works optionally available for all variants.	270538	-
Parameterising set ISpac - Wizard			
	The software serves for commissioning, configuring and diagnosing the ISpac isolators Series 9146, 9162 and 9182. For further information, see operating instructions. Form of delivery: 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
Resistance 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 available 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	4 g	
	3-pole plug, screw connector thread: M3 stripping length: 7 mm colour: blue	112818	5 g	
Screw terminal with test tap				
	3-pole plug with test tap, screw connector thread: M3 stripping length: 7 mm colour: black	113005	1 g	
	3-pole plug with test tap, screw connector thread: M3 stripping length: 7 mm colour: blue	113004	1 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