



- Compact limit value switch with two configurable limit values and output of 4 to 20 mA
- Bidirectional HART transmission
- Can be used up to SIL 2 (IEC/EN 61508)

A3

WebCode **9162A**



9162 series Ex i transmitter power supply units with limit values can be used for the intrinsically safe operation of two- and three-conductor 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 issue an alert. A wire-breakage and short-circuit monitoring system affords increased availability.

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






	NEC 505 Class I			NEC 506		
Zone	0	1	2	20	21	22
Ex interface	•	•	•			
Installation in			•			•



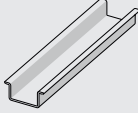
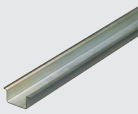

	NEC 500					
	Class I		Class II		Class III	
Division	1	2	1	2	1	2
Ex interface	•	•	•	•	•	•
Installation in		•		•		•

Selection Table						
Number of channels	1					
Input	Output	Limit contact (per channel)	Product Type	Art. No.	PS	Weight kg
4 ... 20 mA with HART	4 ... 20 mA with HART	2 NOs	9162/13-11-14s	238251▲	21	0.225

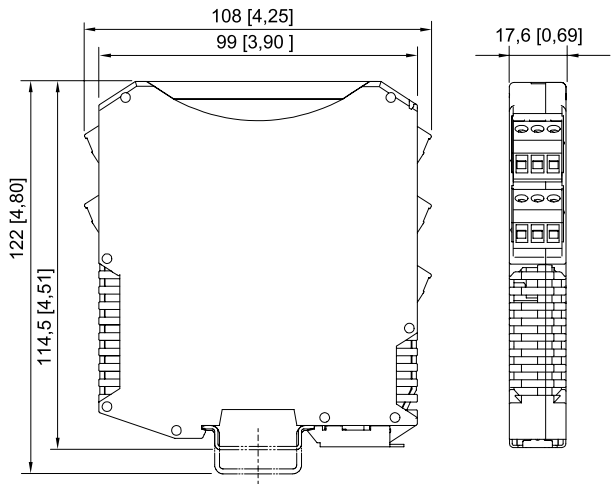
Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex nA nC [ia Ga] IIC T4 Gc
Gas explosion protection ATEX	⊕ II 3 (1) G Ex nA nC [ia Ga] IIC T4 Gc
Gas explosion protection EAC	2 Ex nA nC [ia Ga] IIC T4 Gc X
Dust explosion protection IECEx	[Ex ia Da] IIIC
Dust explosion protection ATEX	⊕ II (1) D [Ex ia Da] IIIC
Dust explosion protection EAC	[Ex ia Da] IIIC
Certificates	ATEX (BVS), Canada (FM), EAC (STV), IECEx (BVS), India (PESO), SIL (exida), USA (FM)
Ship approval	CCS, DNVGL
Safety Data	
Max. voltage $U_o$	27 V
Max. current $I_o$	87.9 mA
Max. power $P_o$	574 mW
Safety-related maximum voltage	253 V

Technical Data	
Functional Safety	
SIL	2
Electrical Data	
Limiting values configuration	using ISpac wizard (V3.04 and following)
Auxiliary Power	
Auxiliary power	24 V DC
Nominal current	85 mA
Input	
Message of line fault and auxiliary power failure	- Contact (30 V / 100 mA) closed to ground in case of fault - pac-Bus, floating contact (30 V / 100 mA)
Output	
Output signal	4 ... 20 mA with HART
Load resistance $R_L$	0 ... 600 $\Omega$ (terminal 1+ / 2-)
Switching voltage limiting values	$\leq \pm 30$ V
Switching current limiting values	$\leq 100$ 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	NS35/15, NS35/7.5 DIN rail

Accessories and Spare Parts			
Figure	Description	Art. No.	Weight kg
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: CD-ROM; parameterising software incl. parameterising cable / adaptor 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 adaptor	202595	0.235
Screw terminal			
	3-pole plug, screw connector thread: M3 stripping length: 7 mm colour: green	112817	0.005
	3-pole plug, screw connector thread: M3 stripping length: 7 mm colour: black	112816	0.004
	3-pole plug, screw connector thread: M3 stripping length: 7 mm colour: blue	112818	0.005
Spring clamp terminal			
	3-pole plug with test tap, spring clamp connection stripping length: 10 mm colour: green	112825	0.005

Accessories and Spare Parts			
Figure	Description	Art. No.	Weight kg
<b>Spring clamp terminal</b>			
	3-pole plug with test tap, spring clamp connection stripping length: 10 mm colour: black	112824	0.005
	3-pole plug with test tap, spring clamp connection stripping length: 10 mm colour: blue	112826	0.005
<b>DIN rail</b>			
	NS 35 / 15 (available by the metre)	103714 ▲	1.410
<b>DIN rail</b>			
	NS 35 / 7.5 (available by the metre)	103707	0.349
<b>Front cover</b>			
	yellow, transparent. Clear marking of the device for SIL applications. (Packaging unit: 10 pieces)	200914	0.020

**Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations**



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