



- Space-saving two-channel variant reduces installation costs
- Easily accessible rotary switch makes adjustment simple
- Can be used up to SIL 2 (IEC 61508)

A3

WebCode 9147A



9147 series vibration transducer power supply units connect vibration, acceleration and speed sensors to analysis systems. The measuring signals are galvanically separated when they are transmitted. They are transmitted at frequencies of up to 50 Hz. These units have already been tested with numerous sensors from well-known manufacturers and are in use in systems across the globe.

	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			•			•




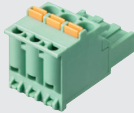
	NEC 500					
Division	Class I		Class II		Class III	
Division	1	2	1	2	1	2
Ex interface	•	•	•	•	•	•
Installation in		•		•		•



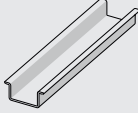
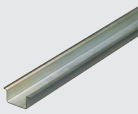

Selection Table						
Product variant	Vibration Transducer Supply Unit					
Number of channels	Product Type	Art. No.	PS	Weight kg		
1	9147/10-99-10s	212432 ▲	21	0.150		
2	9147/20-99-10s	212433	21	0.210		

The order numbers listed in the table are for devices equipped with screw terminals. Variants with a spring clamp terminal are available. Further versions on the Internet [r-stahl.com](http://r-stahl.com).

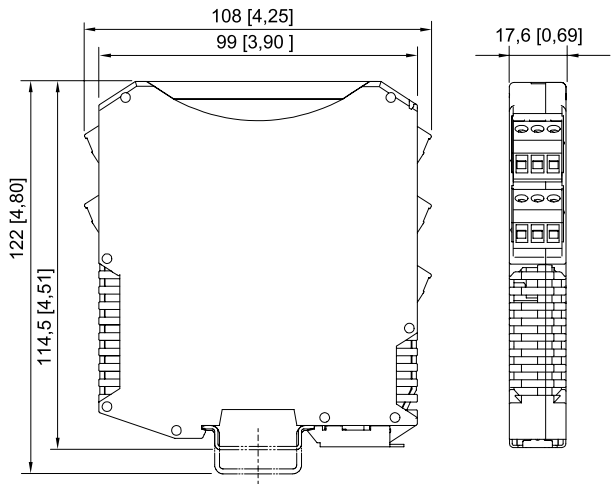
Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex nA [ia Ga] IIC T4 Gc
Gas explosion protection ATEX	Ⓔ II 3 (1) G Ex nA [ia Ga] IIC T4 Gc
Gas explosion protection EAC	2 Ex nA [ia Ga] IIC T4 Gc X
Dust explosion protection IECEx	[Ex ia Da] IIIC
Dust explosion protection ATEX	Ⓔ II (1) D [Ex ia Da] IIIC
Dust explosion protection EAC	[Ex ia Da] IIIC
Firedamp protection IECEx	[Ex ia Ma] I
Firedamp protection ATEX	Ⓔ I (M1) [Ex ia Ma] I
Certificates	ATEX (BVS), Canada (FM), EAC (STV), IECEx (BVS), India (PESO), SIL (exida), USA (FM)
Ship approval	CCS, DNVGL

Technical Data	
Explosion Protection	
Installation	in Zone 2
Further information	see respective certificate and operating instructions
Safety Data	
Max. voltage $U_o$	26.3 V
Max. current $I_o$	88.3 mA
Max. power $P_o$	579 mW
Safety-related maximum voltage	253 V
Functional Safety	
SIL	2
Electrical Data	
Output current for 2-wire operation	2,6 / 4,3 / 7,9 mA at -10 V
Output current for 3-wire operation	10 mA at -20 V; 20 mA at -17 V
Auxiliary Power	
Auxiliary power	24 V DC
Input	
Input signal	-20 ... -0.5 V
Input functional range	-24 – 0 V
Input resistance	10 k $\Omega$ s
Output	
Output signal	-20 to -0.5 V
Signal transmission frequency range	0 – 50 kHz
Ambient Conditions	
Ambient temperature	-20 °C ... +70 °C (Single device) -20 °C ... +70 °C (Group assembly)
Storage temperature	-40 °C ... +80 °C
Mounting / Installation	
Mounting type	DIN rail (NS35/15, NS35/7.5)

Accessories and Spare Parts			
Figure	Description	Art. No.	Weight kg
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