



- Approved for use with condition monitoring systems from the leading suppliers
- Additional space-saving two-channel variant
- Simple to set and adjust using easily accessible rotary switches

A3

## MY R. STAHL 9147A



Series 9147 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 devices have already been tested with numerous sensors from well-known manufacturers such as Bently Nevada and are in use in systems across the globe.

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

### Selection Table

Product variant	Vibration transducer supply unit				
Number of channels	Connection type	Product Type	Art. No.	Weight	
1	Screw terminal	9147/10-99-10s	212432	150 g	
	Spring clamp terminal	9147/10-99-10k	213112	150 g	
2	Screw terminal	9147/20-99-10s	212433	210 g	
	Spring clamp terminal	9147/20-99-10k	213113	150 g	

### Technical Data

Explosion Protection	
IECEx gas explosion protection	Ex ec [ia Ga] IIC T4 Gc
IECEx dust explosion protection	[Ex ia Da] IIIC
IECEx firedamp protection	[Ex ia Ma] I
ATEX gas explosion protection	Ⓔ II 3 (1) G Ex ec [ia Ga] IIC T4 Gc
ATEX dust explosion protection	Ⓔ II (1) D [Ex ia Da] IIIC
ATEX firedamp protection	Ⓔ I (M1) [Ex ia Ma] I
Certificates	ATEX (BVS), Canada (FM), China (NEPSI), IECEx (BVS), India (PESO), Korea (KTL), SIL (exida), USA (FM)
Ship approval	CCS, EU RO MR (DNV)
Declaration of conformity	ATEX (EUK), China (CCC)
Installation	In Zone 2
Further information	See relevant certificate and operating instructions
Safety Data	
Max. voltage U <sub>0</sub>	26.3 V

## Technical Data

### Safety Data

Max. current $I_o$	88.3 mA
Max. power $P_o$	579 mW
Safety-related max. voltage	253 V

### Functional Safety

SIL	2
-----	---

### Auxiliary Power

Auxiliary power	24 V DC
Max. power dissipation	1.4 W

### Input

Input signal	-20 to -0.5 V
Function range input	-24 – 0 V
Input resistance	10 kΩ
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

### Output

Output signal	-20 to -0.5 V
Signal transmission frequency range	0 – 50 kHz

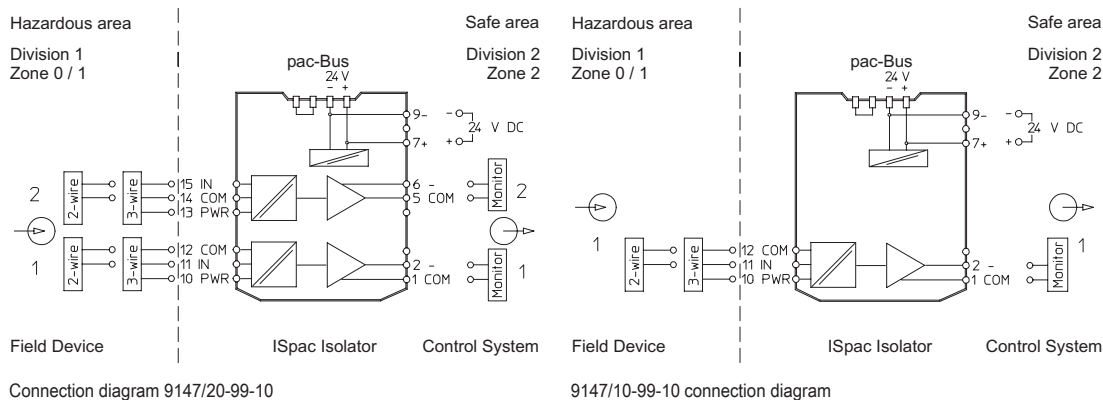
### Ambient Conditions

Ambient temperature	-20 °C ... +70 °C (Single device) -20 °C ... +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

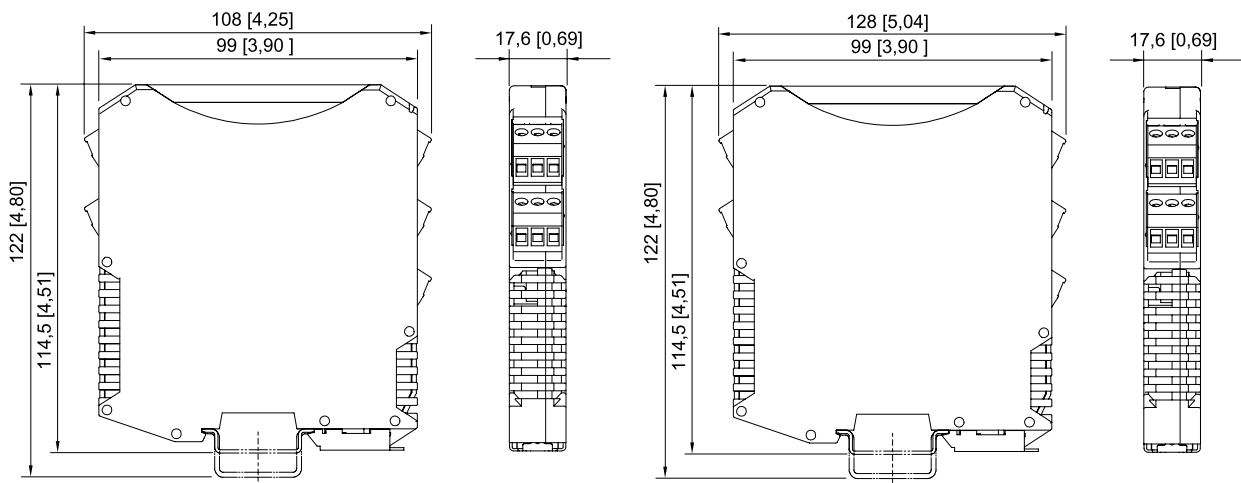


## Spare Parts

Figure	Description	Art. No.	Weight
Screw terminal			
	3-pole plug, screw connector thread: M3 stripping length: 7 mm colour: green	112817	5 g

Spare Parts				
Figure	Description	Art. No.	Weight	
Screw terminal				
	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	

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



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