



- 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

07 b

MY R. STAHL 9147A



9147 series vibration transducer power supply units connect vibration, acceleration and speed sensors to analytical 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 such as Bently Nevada and are in use in systems across the globe.

	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			•			

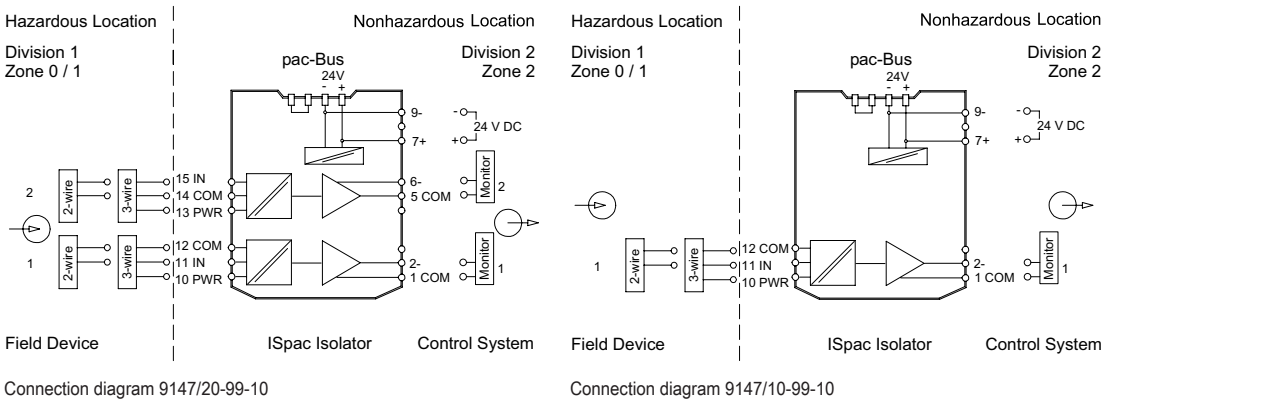
	IECEX / ATEX					
	0	1	2	20	21	22
Zone						
Ex interface	•	•	•	•	•	•
Installation in			•			

Selection Table					
Product variant	Vibration transducer supply unit				
Number of channels	Connection type	Product Type	Art. No.	Weight lb	
1	Screw terminal	9147/10-99-10s	212432	0.33 lb	
	Spring clamp terminal	9147/10-99-10k	213112	0.33 lb	
2	Screw terminal	9147/20-99-10s	212433	0.46 lb	
	Spring clamp terminal	9147/20-99-10k	213113	0.33 lb	

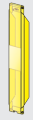
Technical Data	
Explosion Protection	
FMus certificate	FM16US0122X
cFM certificate	FM16CA0067X
cFM certificate	FM16CA0067X
Marking cFMus	Class I, Div. 2, Groups A,B,C,D; Class I, Zone 2, AEx/Ex nA Group IIC AIS Class I,II,III, Div. 1, Groups A,B,C,D,E,F,G; Class I, Zone 0, [AEx/Ex ia] IIC T4 at Ta = 70°C See Doc. 9147 6 031 001 1
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
Installation	in Zone 2
Further information	see respective certificate and operating instructions

Technical Data	
Explosion Protection	
Certificates	ATEX (BVS), Canada (FM), China (NEPSI), IECEx (BVS), India (PESO), Korea (KTL), SIL (exida), USA (FM)
Ship approval	CCS, EU RO MR (DNV)
Safety Data	
Max. voltage U_0/V_{oc}	26.3 V
Max. current I_0/I_{sc}	88.3 mA
Max. power P_0	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 k Ω
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 °F	-4°F ... +158°F (Single device) -4°F ... +140°F (Group assembly)
Ambient temperature °C	-20 °C ... +70 °C (Single device) -20 °C ... +60 °C (Group assembly)
Storage temperature °F	-40°F ... +176°F
Storage temperature °C	-40 °C ... +80 °C
Mounting / Installation	
Mounting type	DIN rail NS35/15, NS35/7.5

Technical Drawings – Subject to Alterations

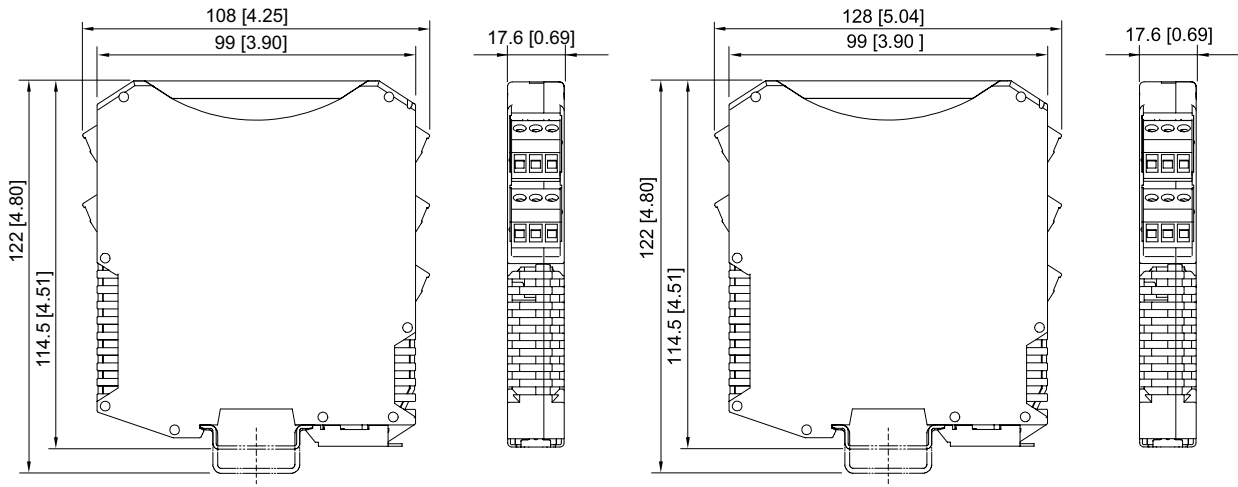


Accessories

Figure	Description	Product Type	Art. No.	Weight lb
Transparent cover				
	For 91xx ISpac modules Yellow, transparent Clear identification of the device for SIL applications. (Packaging unit: 10 pieces)	cover 17,6 yellow transparent	200914	0.04

Spare Parts

Figure	Description	Product Type	Art. No.	Weight lb
Screw terminal				
	3-pole plug, screw connector thread: M3 stripping length: 7 mm color: green	Terminal block 3-pole green	112817	0.01
	3-pole plug, screw connector thread: M3 stripping length: 7 mm color: black	Terminal block 3-pole black	112816	0.01
	3-pole plug, screw connector thread: M3 stripping length: 7 mm color: blue	Terminal block 3-pole blue	112818	0.01
Screw terminal with test tap				
	3-pole plug with test tap, screw connector thread: M3 stripping length: 7 mm colour: black	Terminal block 3-pole black Screwable co	113005	0.01
	3-pole plug with test tap, screw connector thread: M3 stripping length: 7 mm colour: blue	Terminal block 3-pole blue Screwable con	113004	0.01
Spring clamp terminal				
	3-pole plug with test tap, spring clamp connection stripping length: 10 mm color: green	terminal block 3-pole green spring force	112825	0.01
	3-pole plug with test tap, spring clamp connection stripping length: 10 mm color: black	terminal block 3-pole black spring force	112824	0.01
	3-pole plug with test tap, spring clamp connection stripping length: 10 mm color: blue	terminal block 3-pole blue spring force	112826	0.01



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, Fieldbus Power Supply Series 9412 with spring clamp terminal