



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

07 b

WebCode 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 CEC Appendix J					
	Class I		Class II		Class III	
Division	1	2	1	2	1	2
Ex interface	•	•	•	•	•	•
Installation in		•				

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

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

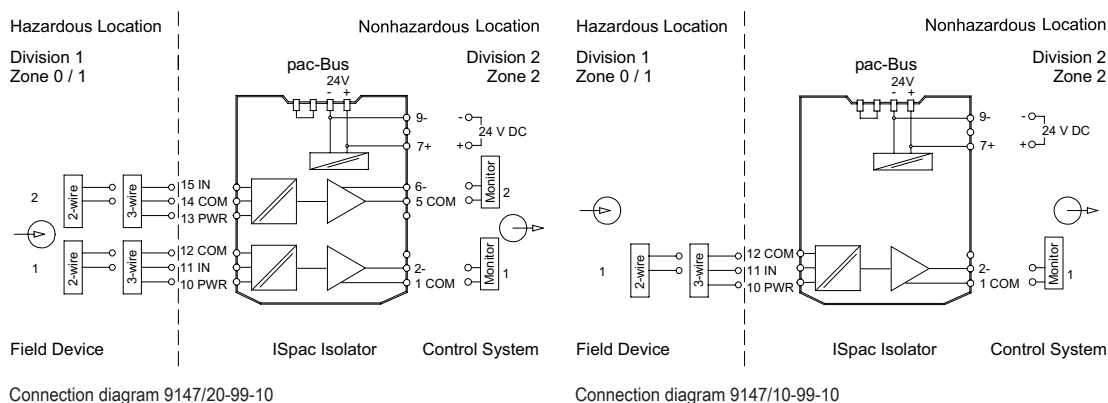
Selection Table					
Product variant	Vibration Transducer Supply Unit				
Number of channels	Connection type	Product Type	Art. No.	Weight lb	
1	Screw terminal	9147/10-99-10s	212432	0.33	
2	Screw terminal	9147/20-99-10s	212433	0.46	

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.


Technical Data	
Explosion Protection	
Certificate FMus	FM16US0122X
Certificate cFM	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 ia]/[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] IIC
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), EAC (ENDCE), IECEx (BVS), India (PESO), SIL (exida), USA (FM)
Ship approval	CCS, EU RO MR
Safety Data	
Max. voltage U_j/V_{oc}	26.3 V
Max. current I_j/I_{sc}	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
Power dissipation max.	1.4 W
Input	
Input signal	-20 ... -0.5 V
Input functional range	-24 – 0 V
Input resistance	10 k Ω s
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 ... +158°F (Group assembly)
Ambient temperature °C	-20 °C ... +70 °C (Single device) -20 °C ... +70 °C (Group assembly)
Storage temperature °F	-40°F ... +176°F
Storage temperature °C	-40 °C ... +80 °C
Mounting / Installation	
Mounting type	NS35/15, NS35/7.5 DIN rail




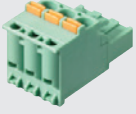


Technical Drawings – Subject to Alterations

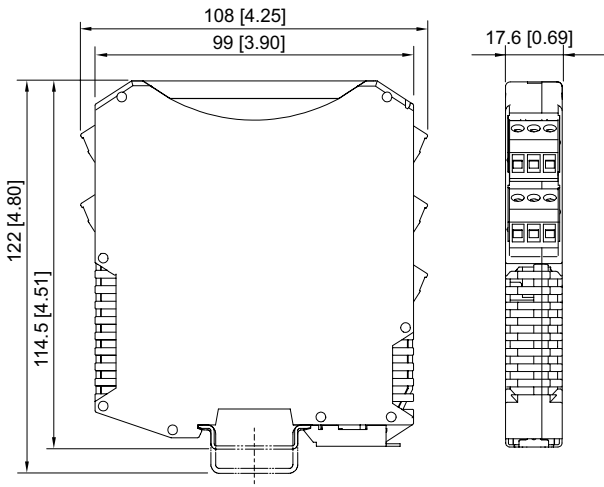


Accessories

Figure	Description	Art. No.	Weight lb
Front cover			
	for ISpac modules 91xx yellow, transparent Clear marking of the device for SIL applications. (Packaging unit: 10 pieces)	200914	0.04

Spare Parts

Figure	Description	Art. No.	Weight lb
Screw terminal			
	3-pole plug, screw connector thread: M3 stripping length: 7 mm color: green	112817	0.01
	3-pole plug, screw connector thread: M3 stripping length: 7 mm color: black	112816	0.01
	3-pole plug, screw connector thread: M3 stripping length: 7 mm color: blue	112818	0.01
Spring clamp terminal			
	3-pole plug with test tap, spring clamp connection stripping length: 10 mm color: green	112825	0.01
	3-pole plug with test tap, spring clamp connection stripping length: 10 mm color: black	112824	0.01
	3-pole plug with test tap, spring clamp connection stripping length: 10 mm color: blue	112826	0.01



ISpac Series 9146, 9147, 9160, 9162, 9163, 9165,
 9167, 9170, 9172, 9175, 9176, 9180, 9182, 9193,
 ISbus Series 9412 with screw terminal