

- Loop-powered Ex i output isolating repeater
- Suitable for fire and gas detectors
- Suitable for loads of up to 800 Ω

07 b

## MY R. STAHL 9167A



9167 series Ex i isolating repeaters operate without auxiliary power and can be used for the intrinsically safe operation of control valves, I/P transducers, analogue indicators and fire or gas detectors, for example. They have one or two channels. They transmit superimposed HART communication signals in both directions.

	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			•			

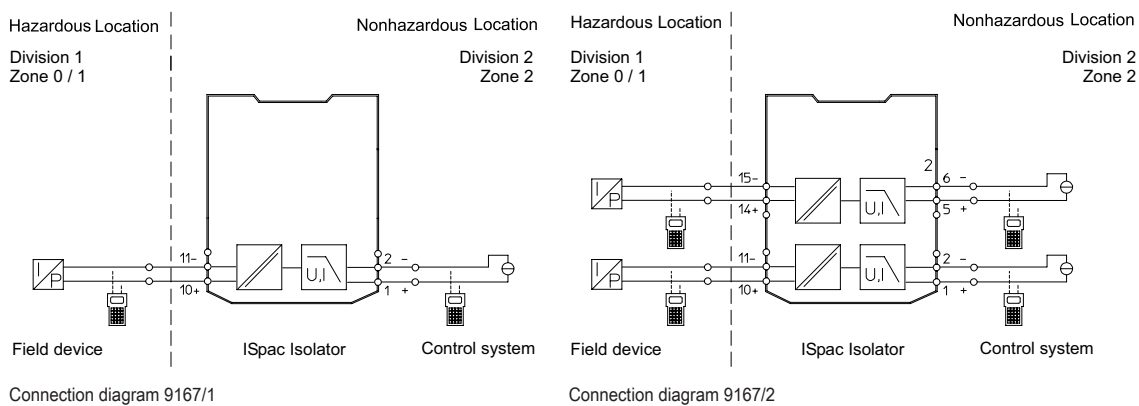
	IECEX / ATEX					
	0	1	2	20	21	22
Zone						
Ex interface	•	•	•	•	•	•
Installation in			•			

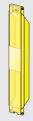
Selection Table					
Product variant	Isolating Repeater Loop Powered				
Number of channels	Connection type	Product Type	Art. No.	Weight lb	
1	Screw terminal	<b>9167/13-11-00s</b>	160244	0.35 lb	
	Spring clamp terminal	<b>9167/13-11-00k</b>	160245	0.35 lb	
2	Screw terminal	<b>9167/23-11-00s</b>	160247	0.4 lb	
	Spring clamp terminal	<b>9167/23-11-00k</b>	160248	0.4 lb	

Technical Data	
<b>Variant</b>	<b>9167/3-11-00</b>
<b>Explosion Protection</b>	
FMus certificate	FM16US0122X
cFM certificate	FM16CA0067X
cFM certificate	FM16CA0067X
Marking cFMus	Class I, Div. 2, Groups A,B,C,D; Class I, Zone 2, 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. 91 676 01 31 1
IECEX gas explosion protection	Ex nA [ja Ga] IIC T4 Gc
IECEX dust explosion protection	[Ex ia Da] IIIC
Certificates	ATEX (BVS), Canada (FM), IECEX (BVS), SIL (exida), USA (FM), USA (UL)
Ship approval	CCS, EU RO MR (DNV)

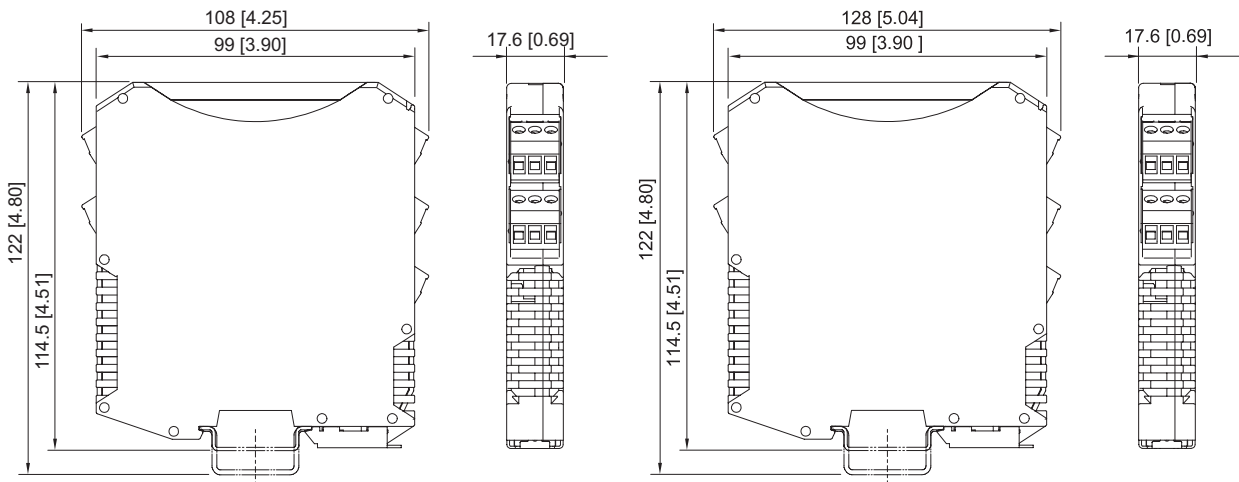
Technical Data	
<b>Variant</b>	<b>9167/3-11-00</b>
<b>Safety Data</b>	
Max. voltage $U_d/V_{oc}$	25 V
Max. current $I_d/I_{sc}$	99 mA
Max. power $P_o$	613 mW
<b>Auxiliary Power</b>	
Auxiliary power	without
<b>Input</b>	
Input signal	0/4 to 20 mA with HART
Function range input	0 – 40 mA
Internal resistance $R_i$ at 20 mA	380 $\Omega$
Internal resistance $R_i$ at 40 mA	330 $\Omega$
Additional voltage drop	1 V
<b>Output</b>	
Output signal	0/4 to 20 mA with HART
Function range output	0 – 40 mA
Open-circuit voltage $U_o$	25 V
Output short-circuit current	$\leq 60$ mA
Average measurement fault	0,35%
Temperature influence error limits	$\leq 0.1\%/10$ K
<b>Ambient Conditions</b>	
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
<b>Mounting / Installation</b>	
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

**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, Fieldbus Power Supply Series 9412 with spring clamp terminal