

- Compact, loop-powered one- and two- channel Ex i output isolating repeater
- Suitable for fire and gas detectors
- Can be used up to SIL 3 (IEC 61508)

A3

WebCode 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 and issue HART signals (0/4 to 20 mA) from the analogue output. They transmit superimposed HART communication signals in both directions.

	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		•		•		•

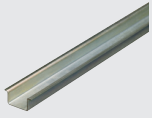

Selection Table							
Number of channels							
1							
Max. voltage U _o	Max. current I _o	Max. power P _o	Load resistance R _L max.	Product Type	Art. No.	PS	Weight kg
18.8 V	107 mA	503 mW	590 Ω	9167/14-11-00s	160250	21	0.161
25 V	99 mA	613 mW	800 Ω	9167/13-11-00s	160244▲	21	0.161
Number of channels							
2							
Max. voltage U _o	Max. current I _o	Max. power P _o	Load resistance R _L max.	Product Type	Art. No.	PS	Weight kg
18.8 V	107 mA	503 mW	590 Ω	9167/24-11-00s	160253	21	0.182
25 V	99 mA	613 mW	800 Ω	9167/23-11-00s	160247	21	0.182

Technical Data	
Explosion Protection	
Gas explosion protection IECEx	Ex nA [ja Ga] IIC T4 Gc
Gas explosion protection ATEX	⊕ II 3 (1) G Ex nA [ja Ga] IIC T4 Gc
Gas explosion protection EAC	2 Ex nA [ja 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
Certificates	ATEX (BVS), Canada (FM), EAC (STV), IECEx (BVS), India (PESO), Russia (Meteorological certificate), SIL (exida), USA (FM), USA (UL)
Ship approval	CCS, DNVGL

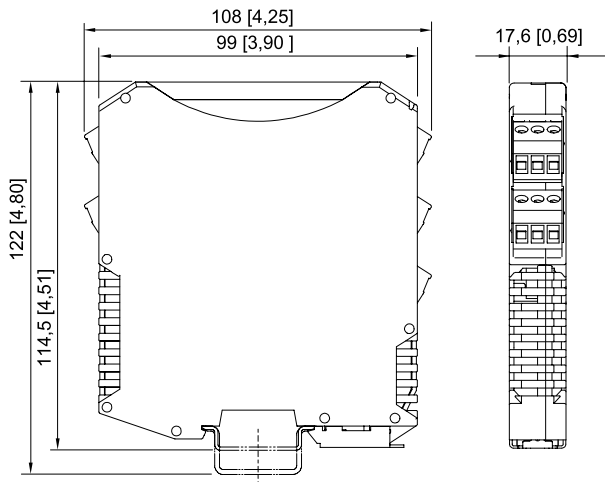
Technical Data	
Auxiliary Power	
Auxiliary power	Without
Input	
Input signal	0/4 ... 20 mA with HART
Output	
Output signal	0/4 ... 20 mA with HART
Ambient Conditions	
Ambient temperature	-20 °C ... +70 °C (Single device) -20 °C ... +60 °C (Group assembly)
Storage temperature	-40 °C ... +80 °C
Mounting / Installation	
Mounting type	DIN rail (NS35/15, NS35/7.5)

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
	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
DIN rail			
	NS 35 / 15 (available by the metre)	103714 ▲	1.410

Accessories and Spare Parts

Figure	Description	Art. No.	Weight kg
DIN rail			
	NS 35 / 7.5 (available by the metre)	103707	0.349
Front cover			
	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