- For installation in Zone 1 or Zone 2 hazardous areas (depending on the variant)
- Inputs can be intrinsically safe (Ex i), feature increased safety (Ex e) or be non-Ex
- Space saving design just 12 mm wide

MY R. STAHL **9164A**

The Series 9164 mA isolating repeater allows two 4 to 20 mA signal sources to be coupled. For example, it allows 4-wire transmitters to be connected to I/O cards designed to be operated with two wires.
The use of this device therefore saves costs by eliminating the need for additional I/O cards, or it can be used as the only solution for I/O cards that only operate with two wires.

	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

Number of channels	1			
Input	Output	Product Type	Art. No.	Weight
Ex e: 4 to 20 mA HART (sink)	Ex i: passive HART (sink)	9164/13-20-06	224365	140 g
Ex i: 4 to 20 mA HART (sink)	Ex i: passive HART (sink)	9164/13-20-08	224364	90 g

The transmission of the HART signal can be deactivated using the DIP switch.

Technical Data

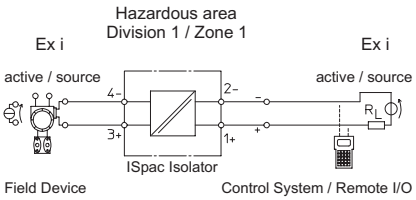
Variant	**9164/13-20-06 Ex e input**	**9164/13-20-08 Ex i input**
Explosion Protection		
IECEx gas explosion protection	Ex e mb [ia Ga] IIC T4 Gb	Ex ib [ia Ga] IIC T4 Gb
IECEx dust explosion protection	[Ex ia Da] IIIC	[Ex ia Da] IIIC
ATEX gas explosion protection	⟨Ex⟩ II 2 (1) G Ex e mb [ia Ga] IIC T4 Gb	⟨Ex⟩ II 2 (1) G Ex ib [ia Ga] IIC T4 Gb
ATEX dust explosion protection	⟨Ex⟩ II (1) D [Ex ia Da] IIIC	⟨Ex⟩ II (1) D [Ex ia Da] IIIC
Certificates	ATEX (BVS), China (NEPSI), IECEx (BVS), SIL (exida)	ATEX (BVS), Canada (FM), China (NEPSI), IECEx (BVS), SIL (exida), USA (FM)
Ship approval	CCS, EU RO MR (DNV)	CCS, EU RO MR (DNV)
Declaration of Conformity	ATEX (EUK), China (CCC)	ATEX (EUK), China (CCC)
Safety Data		
Max. voltage U_i	30 V	30 V
Max. current I_i	150 mA	150 mA
Max. power P_i	1000 mW	1000 mW

A3

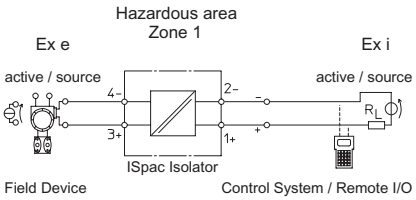
Technical Data

Variant	9164/13-20-06 Ex e input	9164/13-20-08 Ex i input
Functional Safety		
SIL	2	2
Auxiliary Power		
Auxiliary power	without	without
Input		
Input signal	3.8 to 20.5 mA with HART	3.8 to 20.5 mA with HART
Output		
Output signal	3.8 to 20.5 mA with HART	3.8 to 20.5 mA with HART
Ambient Conditions		
Ambient temperature	-40 °C ... +75 °C	-40 °C ... +75 °C
Storage temperature	-40 °C ... +80 °C	-40 °C ... +80 °C
Mounting / Installation		
Mounting type	DIN rail NS35/15, NS35/7.5	DIN rail NS35/15, NS35/7.5

Technical Drawings – Subject to Alterations



Connection diagram 9164/13-20-08



Connection diagram 9164/13-20-06

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