



- For installation in Class I, Div. 1 hazardous areas
- Intrinsically safe (Ex i) input
- Space-saving, 12-mm wide design

07 b

MY R. STAHL 9164A



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

	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		•	•			

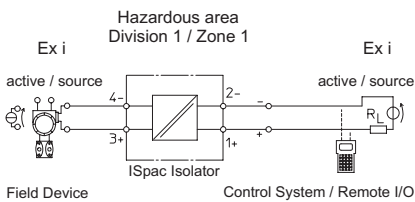
Selection Table					
Number of channels	1				
Input	Output		Product Type	Art. No.	Weight lb
Ex i: 4 to 20 mA HART (sink)	Ex i: passive HART (sink)		9164/13-20-08	224364	0.2 lb
The transmission of the HART signal can be deactivated by means of a DIP switch.					

Technical Data	
Explosion Protection	
FMus certificate	FM16US0122X
cFM certificate	FM16CA0067X
cFM certificate	FM16CA0067X
Marking cFMus	IS, Class I,II,III, Div. 1, Groups A,B,C,D,E,F,G; T4, Class I, Zone 0, AEx/Ex ia Group IIC T4 with connections for Class I,II,III, Div. 1, Groups A,B,C,D,E,F,G; Class I, Zone 0, AEx/Ex [ia] IIC See Doc. 91 646 01 31 1
IECEX gas explosion protection	Ex ib [ia Ga] IIC T4 Gb
IECEX dust explosion protection	[Ex ia Da] IIIC
Certificates	ATEX (BVS), Canada (FM), China (NEPSI), IECEX (BVS), SIL (exida), USA (FM)
Ship approval	CCS, EU RO MR (DNV)
Safety Data	
Max. voltage U _i	30 V
Max. current I _i	150 mA

Technical Data

Safety Data	
Max. power P_i	1000 mW
Auxiliary Power	
Auxiliary power	without
Input	
Input signal	3.8 to 20.5 mA with HART
Output	
Output signal	3.8 to 20.5 mA with HART
Ambient Conditions	
Ambient temperature °F	-40 °F ... +167 °F
Ambient temperature °C	-40 °C ... 75 °C
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



Connection diagram 9164/13-20-08

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

