

Analog to Frequency Converter Type AF 9001

Highlights

- Voltage/Current to Frequency Converter
- Adjustable Output Frequency
- Isolated Input/Output Channels
- High Reliability
- Small Dimensions
- Low Power Consumption



The unit **AF 9001** is an analog to frequency converter for converting an analog input into a proportional and adjustable output frequency.

Function

The input signal (either voltage or current) is processed by a converter into a frequency. The actual frequency at the output can be adjusted by an internal adjustable frequency divider. An input signal of 20 mA resp. 10 V and a divider value of "1" results in an output frequency of 25 kHz. The wished dividing value (1...4080) is set by a internal 8-pin DIP switch and 5 jumper. The output frequency is proportional to the input frequency and the puls/pause ratio is 1:1.

Analog Input

The following input configurations are available:

- 0...10 V
- 0...20 mA
- 4...20 mA

The input range has to be specified by the ordering information key.

Isolated Output

The frequency output channel is opto-isolated. The output transistor is able to switch up to 30 V and 25 mA.

Customized solutions possible

The standard output frequency of 25 kHz at the final value of the input can be adjusted in a wide range to customer requirements.

Construction

The unit **AF 9001** is provided for DIN-rail mounting according to EN 50022.

Power Supply

The unit is deliverable for power supply voltages of 5, 12 or 24V DC (see ordering information).



Specifications

Output channel
Output frequency : max. 25 kHz
Accuracy : 0,1% of full scale
Divider : 8-pole DIP switch
5 jumper

Voltage : max. 30 V Current : max. 25 mA **Power supply** : 18 V...36 V

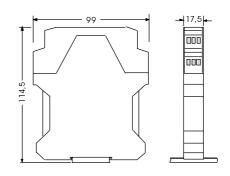
Current consumption : max. 27 mA (24 VDC)

Construction

EMV : Accord. ENV 50121-3-2
Protection : IP40
Mounting : EN 50022
Operating temperature : -5 to +55 °C
Dimensions : 99 x 114,5 x 17,5

Ordering Information

AF 9001-				
			Output range	
			0 max 25 kHz	
			1 reserved	
		Input signal		
		0	010 V	
		1	020 mA	
		2	420 mA	
		3	reserved	
	Power supply			
	0	18	.36 V DC, (standard)	
	1	4,5.	9 V DC, (option)	
	2	9	.18 V DC, (option)	
	3	36	48 V DC, (option)	



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