Frequency output for measuring transducers

(frequency module)

Type:
FM

Application

The frequency module is integrated in a measuring transducer and serves for converting the input variable of the measuring transducer into a frequency.

Function

The variable generated by the measuring transducer proportionally to the input is transmitted to a voltage frequency converter and is converted into a pulse train there. A subsequent divider determines the frequency. It is made available as a square-wave signal or as "open-collector" output.
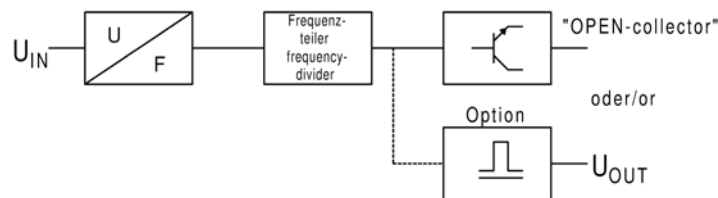
Technical data

Input	Arbitrary measuring transducer	
Output	Output variable	Frequency
	Nominal value	a value from 0- 5Hz to 0-10 kHz
	OPEN collector	NPN, max. 30 V, max. load 100 mA
	Option	square-wave signal 5 V, max. load 10 mA
	Pulse / pause	50 / 50 %
Transfer behavior	Accuracy	± 0,5 %
	Temperature range	-15 °C to +20 °C to +30 °C to +55 °C
	Temperature influece	< 0,3 % at 10 K
	Auxiliary voltage influence	no
	Burden influence	no
	External magnetic field influence	no (400 A/m)
	Response time	< 400 ms
	Limiting	max. 2-fold in case of overload
	Test voltage	4 kV between input, output, auxiliary voltage

Remarks:
The frequency module is installed in the measuring transducer used. This does not cause any changes to the housing dimensions.
By installing the frequency module in the measuring transducer, further outputs are not available!.

Types and variants

FM	

Price group B