



Measuring transducer for standard signals

Type:
NoH-MU



Application

The measuring transducers NoH-MU are used for the galvanic isolation of one, two or three direct current standard signals. The standard signal may lie within a range of 0-20 mA.

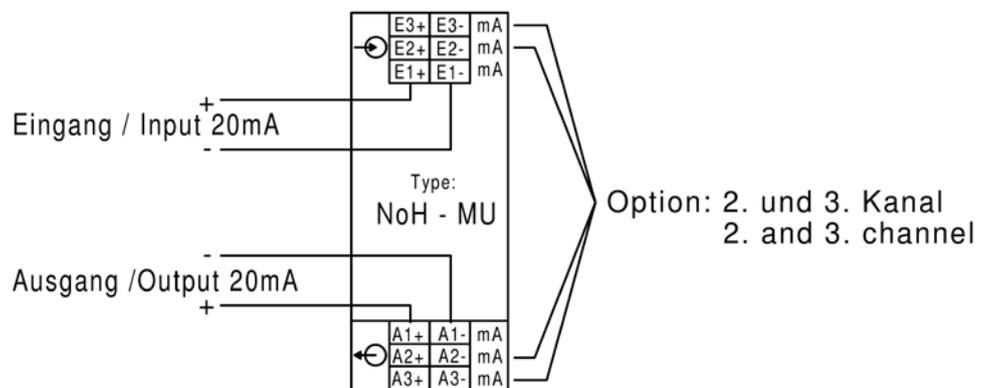


Function

The input current to be measured is transformed into a frequency signal and transmitted to the output side via a transformer after galvanic isolation. At the output side, the frequency signal is retransformed into a direct current. The auxiliary energy required for transformation and transmission is generated from the input signal. Therefore, the input resistance of the measuring transducer depends on the input current and the load connected to the output.



Connection



Types and variants

NoH-MU	1 transmission channel
NoH-MU	2 transmission channels
NoH-MU	3 transmission channels



Technical data

Input	Input variables	direct current	
	Rated values	0-20 mA	
	Max. input voltage	16 V	
	Energy consumption	2,7 V for 20 mA	
	Overload permanent	2-fold	
	High surge load	20-fold, 1 s	
Output	Output variables	impressed direct current (1, 2 or 3 outputs)	
	Rated output current	0-20 mA / 500 Ω load	
Transfer behavior	Accuracy	± 0,2 %	
	Temperature range	-15 °C to +20 °C to +30 °C to +55 °C	
	Temperature influence	< 0,2 % at 10 K	
	Load influence	≤ 0,1 % with 500 Ω load	
	External magnetic field influence	no (400 A/m)	
	Residual ripple	< 30 mVss	
	Response time	< 20 ms with 500 Ω load	
	Open circuit voltage	max. 24 V	
	Current limiting	max. 2-fold in case of overload	
	Test voltage		0,5 kV between input and output
			4 kV between the transmission channels
		Caution!	The NoH-MU is not suited for power grid applications!
Dimensions	Housing	Housing A, (22,5 mm wide) page A1	
Weight		120 g	
Installation	Fastening	Snap-on fastening on top hat rail 35 mm acc. to DIN EN 60 715	
	Electrical connection	Screw terminal max. 4 mm ²	