Signal Converter Frequency / Analogue

Article number: 750524

These signal converters are used to convert sinusoidal or square wave frequency signals into standard output signals (e.g. 0-10 V or 0/4-20 mA). A microprocessor takes the input signal to calculate the output, thereby guaranteeing supreme accuracy and stability. The measuring range is set by means of a DIP switch: The device offers 64 calibrated ranges from 0-100 Hz and from 0-28.8 kHz. Any ranges in between can be set via the built-in potentiometer.

The benefits for you:

- **Frequency range up to 28.8 kHz, virtually any frequency can be set**
- **AC and DC frequencies**
- **3-way isolation, insulation voltage 4 kV**
- **Freely adjustable output signals 0-10 V, 0-20 mA, 4-20 mA**
- **0.1 % accuracy**
- **AC/DC operation**
- **Screw or spring terminal technology**

For use in applications such as:

- **Flow measurement**
- **Digital FV conversion**
- **Fail-safe Schmitt trigger input**
- **AC coupling**
- **Rotational speed measurement**

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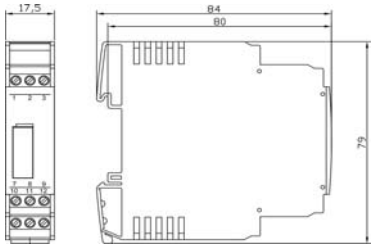
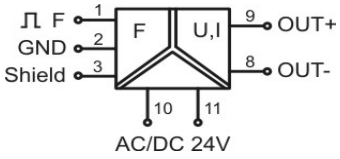
LÜTZE
Technik mit System

Interface technology ● Microcompact signal converter

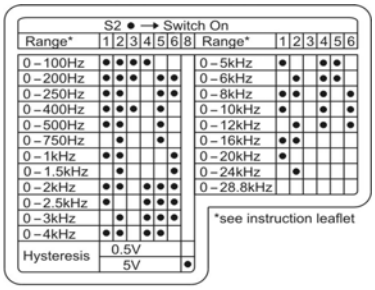
Input : AC and DC frequency signals
Output : 0-10 V, 0-20 mA, 4-20 mA
Isolation : 4 kV; 3-way isolation

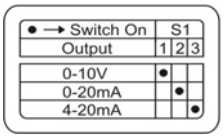


Pin assignment:



Range adjustment:





Description	Article number	Microcompact type	PU
Screw terminal			
AC/DC 24 V	**750524**	**WNFA 6-0524**	**1**
Spring terminal			
AC/DC 24 V	**751524**	**WNFA 6-1524**	**1**

Input Side			
Frequency range	0 - 28.8 kHz, can be adjusted via DIP switch		
Zero / Span	Production calibration		
Frequency signal	AC/DC 0.6 Vss - 30 Vss		
Input impedance	50 kΩ		
Hysteresis	0.5 Vss - 5 Vss, reversible		
Output Side	**0-10 V**	**0-20 mA**	**4-20 mA**
Output signal	Can be adjusted via DIP switch		
Max. load impedance at I - output		400 Ω	400 Ω
Max. load impedance at U - output	>1 kΩ		
Output impedance	55 Ω		
Output current		Max. 21 mA	Max. 21 mA
Residual ripple		< 5 $mV_{eff.}$	

General Data	
Rated voltage	AC/DC 24 V
Operating voltage range	DC 16.8 V - 30 V; AC 19.2 V - 28.8 V
Rated current	20 mA
Status indication	Yellow LED
Input/output protection	Overvoltage AC/DC 30 V; output short-circuit-proof
Accuracy	0.1 % FSR (23 °C)
Linearity error	0.02 %
Ripple	0.1 %
Settling time (accuracy 1 %)	200 ms
Amplification stability	Ageing 1 year: 800 ppm; 10 years: 2500 ppm
Temperature coefficient	70 ppm/K
Insulation voltage input/output	Input against supply / output: 2.5 kV; supply against output: 4 kV
Housing material	PPE
Mount	Can be snapped onto TS 35 (EN50022)
IP rating	IP 20
Installation position	Any
Connection method	Screw terminal: 0.14 mm^2 - 1.5 mm^2; spring method: 0.14 mm^2 - 1.5 mm^2
Operating temperature range	-25 °C to +60 °C
Storage temperature range	-40 °C to +85 °C
Dimensions	17.5 x 79 x 84 mm
Weight	0.070 kg
Approvals	UL, CSA pending
Standards	EN 60721-3-3; EN 55011; EN 6-4-2/6; EN 50178 degree of contamination 2, no moisture condensation, overvoltage category III

Accessories	Article number:	Type:	PU
Text label 4.23 x 11mm	681034	LEB 0411 PB	1