

DC/DC Signal Conditioners

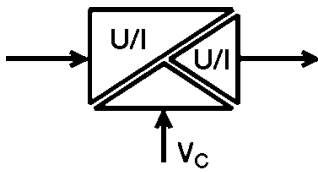
WAVEANALOG DC/DC 20 kHz

- 3-way-isolation
- Transmission frequency 20 kHz
- Analog signal conditioning
- Cross-connectable voltage supply via cross-connectors

Approvals:

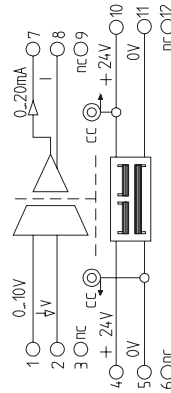


Block diagram



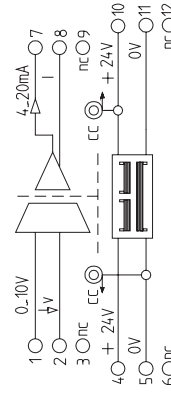
VCC HF

0...10 V/0...20 mA



VCC HF

0...10 V/4...20 mA



Ordering data

Screw connection
Tension clamp connection
Input/output

Technical data*

Input signal
Input voltage max.
Input resistance
Output signal
Load resistance
Accuracy at $T_U=23^\circ\text{C}$
Temperature coefficient
Response time
Cut-off frequency (-3 dB)

General

Voltage supply	
Power consumption	
Current carrying capacity of cross-connection	
Operating temperature	
Storage temperature	
Dimensions W/L/H	mm (in.)
Approvals	

Coordination of insulation according to EN 50178, 04/98

Rated voltage	
Rated surge voltage	
Oversvoltage category	
Contamination class	
Clearance and creepage distance	mm (in.)
Coupling capacity	
Input/output to supply	
Isolation voltage, voltage strength	
Input/output to mounting rail	

Standards/specifications
EMC standards

Dimensions and accessories see

* $T_U = 23^\circ\text{C}$ single module

Type

WAS5 VCC HF	Part No. 8447310000
WAZ5 VCC HF	Part No. 8447320000
0...10 V/0...20 mA	

0...10 V
15 V
500 k Ω
0...20 mA
$\leq 500 \Omega$
$\pm 0.2\%$ of FS
≤ 250 ppm/K of FS
$\leq 40 \mu\text{s}$ (typ. 30 μs)
≥ 15 kHz (typ. 20 kHz)

24 VDC $\pm 25\%$ (18...30 VDC)
< 1.5 W at $I_{out} = 20$ mA
≤ 2 A
$0^\circ\text{C} \dots +55^\circ\text{C}$
$-20^\circ\text{C} \dots +85^\circ\text{C}$
17.5/92.4/112.5 (.69/3.64/4.43)
CE, UL, CSA

300 V
4 kV
III
2
≥ 3 (.12)

1 nF
4 kV $_{eff}$ /1 min

EN 50178
EN 50081, EN 50082, EN 55011

Page 356 + 366

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Page 356 + 366