

WAVEANALOG DC/DC 20 kHz

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

VVC HF

0...10 V/0...10 V

VVC HF

-10...+10 V/-10...+10 V



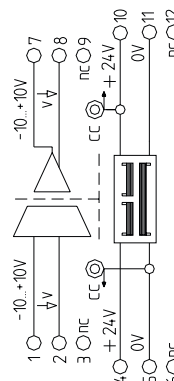
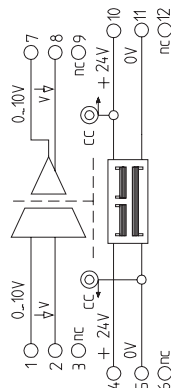
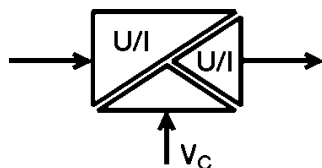
Approvals:



Approvals:



Block diagram



Ordering data

Screw connection
Tension clamp connection
Input/output

Type

WAS5 VVC HF
WAZ5 VVC HF
0...10 V/0...10 V

Part No.

8447370000
8447380000

Type

WAS5 VVC HF
WAZ5 VVC HF
±10 V/±10V

Part No.

8561610000
8587000000

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)

0...10 V
15 V
500 k Ω
0...10 V
 ≥ 2 k Ω
 $\pm 0.2\%$ of FS
 ≤ 250 ppm/K of FS
 ≤ 40 μs (typ. 30 μs)
 ≥ 15 kHz (typ. 20 kHz)

-10...+10 V
 ± 15 V
500 k Ω
-10...+10 V
 ≥ 2 k Ω
 $\pm 0.2\%$ of measurement range
 ≤ 250 ppm/K of measurement range
 ≤ 40 μs (typ. 30 μs)
 ≥ 15 kHz (typ. 20 kHz)

General

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

24 VDC $\pm 25\%$ (18...30 VDC)
< 1.3 W at $I_{out} = 5$ mA
 ≤ 2 A
0 $^\circ\text{C}$...+55 $^\circ\text{C}$
-20 $^\circ\text{C}$...+85 $^\circ\text{C}$
17.5/92.4/112.5 (.69/3.64/4.43)
CE, UL, CSA

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CE, UL

Coordination of insulation according to EN 50178, 04/98

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

300 V
4 kV
III
2
 ≥ 3 (.12)
1 nF
4 kV $_{eff}$ /1 min

300 V
4 kV
III
2
 ≥ 3 (.12)
1 nF
4 kV $_{eff}$ /1 min

Standards/specifications

EMC standards

EN 50178
EN 50081, EN 50082,
EN 55011

EN 50178
EN 50081, EN 50082,
EN 55011

Dimensions and accessories see

Page 356 + 366

Page 356 + 366

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