

DC/DC Signal Conditioners

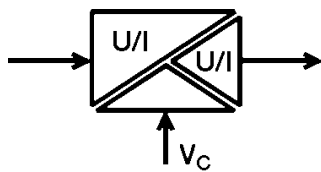
WAVEANALOG DC/DC 20 kHz

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

Approvals:



Block diagram



CCC HF

0(4)...20 mA/0(4)...20 mA



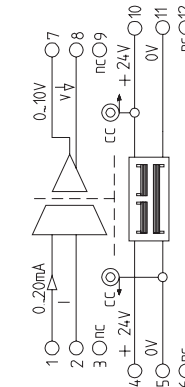
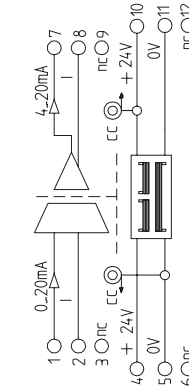
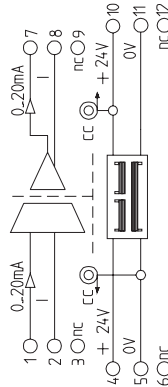
CCC HF

0...20 mA/4...20 mA



CVC HF

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



Ordering data
Screw connection
Tension clamp connection
Input/output

Technical data**
Input signal
Input current 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
Approvals

Coordination of insulation according to EN 50178, 04/98
Rated voltage
Rated surge voltage
Oversvoltage category
Contamination class
Clearance and creepage distance
Coupling capacity
Input/output to supply
Isolation voltage, voltage strength
Input/output to mounting rail

Standards/specifications
EMC standards

Dimensions and accessories see

* Input/output 4...20 mA/4...20 mA possible

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

Type	Part No.
WAS5 CCC HF	8447160000*
WAZ5 CCC HF	8447170000*

0(4)...20 mA/0(4)...20 mA
0...20 mA
50 mA
50 Ω
0...20 mA
$\leq 500 \Omega$
< 0.2% of FS
$\leq 250 \text{ ppm/K}$ of FS
$\leq 40 \mu\text{s}$ (typ. 30 μs)
$\geq 15 \text{ kHz}$ (typ. 20 kHz)

24 VDC $\pm 25\%$ (18...30 VDC)
< 1.5 W at $I_{out} = 20 \text{ mA}$
$\leq 2 \text{ A}$
0°C...+55°C
-20°C...+85°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

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Type	Part No.
WAS5 CCC HF	8447190000
WAZ5 CCC HF	8447200000

0...20 mA/4...20 mA
0...20 mA
50 mA
50 Ω
4...20 mA
$\leq 500 \Omega$
< 0.2% of FS
$\leq 250 \text{ ppm/K}$ of FS
$\leq 40 \mu\text{s}$ (typ. 30 μs)
$\geq 15 \text{ kHz}$ (typ. 20 kHz)

24 VDC $\pm 25\%$ (18...30 VDC)
< 1.5 W at $I_{out} = 20 \text{ mA}$
$\leq 2 \text{ A}$
0°C...+55°C
-20°C...+85°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
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Type	Part No.
WAS5 CVC HF	8447220000
WAZ5 CVC HF	8447230000

0...20 mA/0...10 V
0...20 mA
50 mA
50 Ω
0...10 V
$\geq 2 \text{ k}\Omega$
< 0.2% of FS
$\leq 250 \text{ ppm/K}$ of FS
$\leq 40 \mu\text{s}$ (typ. 30 μs)
$\geq 15 \text{ kHz}$ (typ. 20 kHz)

24 VDC $\pm 25\%$ (18...30 VDC)
< 1.3 W at $I_{out} = 5 \text{ mA}$
$\leq 2 \text{ A}$
0°C...+55°C
-20°C...+85°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

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