

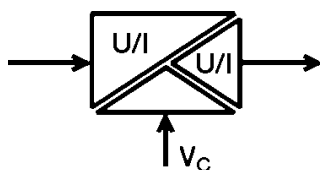
## WAVEANALOG DC/DC

- 3-way-isolation
- Analog signal conditioning
- Indication LED
- Cross-connectable voltage supply via cross-connectors

### Approvals:



#### Block diagram



## CCC

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



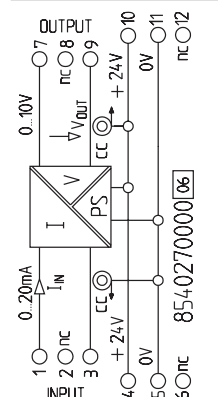
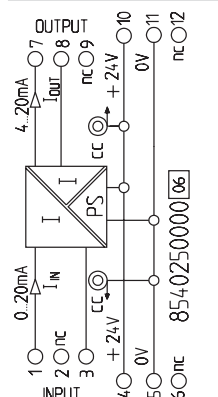
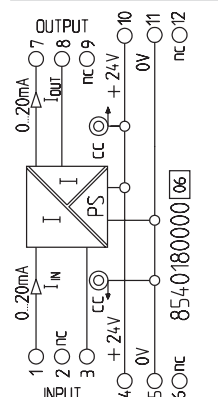
## CCC

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



## CVC

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



#### Ordering data

Screw connection

Tension clamp connection

Input/output

#### Type Part No.

WAS5 CCC **8540180000\***

WAZ5 CCC **8540190000\***

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

#### Type Part No.

WAS5 CCC **8540250000**

WAZ5 CCC **8540260000**

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

#### Type Part No.

WAS5 CVC **8540270000**

WAZ5 CVC **8540280000**

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

#### 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)

0...20 mA

25 mA

$\leq 110 \Omega$

0...20 mA

$\leq 600 \Omega$

0.2%

$\pm 250 \text{ ppm/K}$

$\leq 45 \text{ ms}$

10 Hz

0...20 mA

25 mA

$\leq 110 \Omega$

4...20 mA

$\leq 600 \Omega$

0.2%

$\pm 250 \text{ ppm/K}$

$\leq 45 \text{ ms}$

10 Hz

0...20 mA

25 mA

$\leq 110 \Omega$

0...10 V

$\geq 1 \text{ k}\Omega$

0.2%

$\pm 250 \text{ ppm/K}$

$\leq 45 \text{ ms}$

10 Hz

#### 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 VDC...**24 VDC**...30 VDC)

$< 1.5 \text{ W}$  at  $I_{out} = 20 \text{ mA}$

$\leq 2 \text{ A}$

$0^\circ\text{C} \dots +55^\circ\text{C}$  (horiz. mounted)

$-20^\circ\text{C} \dots +85^\circ\text{C}$

17.5/92.4/112.5 (.69/3.64/4.43)

CE, UL

24 VDC  $\pm 25\%$

(18 VDC...**24 VDC**...30 VDC)

$< 1.5 \text{ W}$  at  $I_{out} = 20 \text{ mA}$

$\leq 2 \text{ A}$

$0^\circ\text{C} \dots +55^\circ\text{C}$  (horiz. mounted)

$-20^\circ\text{C} \dots +85^\circ\text{C}$

17.5/92.4/112.5 (.69/3.64/4.43)

CE, UL

24 VDC  $\pm 25\%$

(18 VDC...**24 VDC**...30 VDC)

$< 1.3 \text{ W}$  at  $I_{out} = 5 \text{ mA}$

$\leq 2 \text{ A}$

$0^\circ\text{C} \dots +55^\circ\text{C}$  (horiz. mounted)

$-20^\circ\text{C} \dots +85^\circ\text{C}$

17.5/92.4/112.5 (.69/3.64/4.43)

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

$\geq 3$  (.12)

1 nF

4 kV<sub>eff</sub>/1 min

4 kV<sub>eff</sub>/1 min

4 kV<sub>eff</sub>/1 min

300 V

4 kV

III

2

$\geq 3$  (.12)

1 nF

4 kV<sub>eff</sub>/1 min

4 kV<sub>eff</sub>/1 min

4 kV<sub>eff</sub>/1 min

300 V

4 kV

III

2

$\geq 3$  (.12)

1 nF

4 kV<sub>eff</sub>/1 min

Standards/specifications

EMC standards

Dimensions and accessories see

EN 50178

EN 50081, EN 50082,

EN 55011

Page 356 + 366

EN 50178

EN 50081, EN 50082,

EN 55011

Page 356 + 366

EN 50178

EN 50081, EN 50082,

EN 55011

Page 356 + 366

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

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