

WAVESERIES
WAS5 VVC 0-10V/0-10V

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com



The MCZ VFC and WAS/WAZ4/5 signal converters can transmit, isolate and convert analogue DC voltages. They are optionally available in widths of 6 mm (MCZ), 12.5 mm (WAS/WAZ4) or 17.5 mm (WAS/WAZ5).

The input and output circuits are completely electrically isolated, as is the power supply. The input signal is converted into a DC current/voltage value (WAS/WAZ) or into a proportional frequency (MCZ VFC) between 0–1/4/8/16 kHz.

The WAVESERIES signal converters are available with a limiting frequency of either 10 Hz (WAS/WAZ4) or 20 kHz (WAS/WAZ5).

The 24 VDC supply voltage can be cross-connected on the module side using ZQV4N (MCZ) or ZQV 2,5N (WAS/WAZ) jumpers.

General ordering data

Order No.	8540330000
Type	WAS5 VVC 0-10V/0-10V
Version	WAVESERIES, Signal converter/disconnector
GTIN (EAN)	4032248180714
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Length	92.4 mm	Width	17.5 mm
Depth	112.4 mm	Net weight	100.5 g

Temperatures

Operating temperature	0 °C...+55 °C	Storage temperature	-20 °C...+85 °C
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Probability of failure

MTTF	463 Years
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Input

Number of inputs	1	Input resistance, voltage	typical. 100 kΩ
Input voltage	0...10 V		

Output

Cut-off frequency (-3 dB)	10 Hz	load impedance voltage	≥ 1 kΩ
Number of outputs	1	Output voltage, note	0...10 V

General data

Accuracy	0.2 %	Current-carrying capacity of cross-connect.	≤ 2 A
Galvanic isolation	3-way isolator	Input/Output	0...10 V/ 0...10 V
Mounting rail	TS 35	Power consumption	< 1.3 W @ I _{OUT} = 5 mA
Step response time	≤ 45 ms	Supply voltage	24 V DC ± 25 %
Temperature coefficient	± 250 ppm/K	Type of connection	Screw connection

Insulation coordination

Clearance & creepage distances	≥ 3 mm	EMC standards	EN 55011, EN 61000-6
Impulse withstand voltage	4 kV	Insulation voltage	2 kV _{eff} / 5 s
Insulation voltage input or output/rail	4 kV _{eff} / 1 min.	Insulation voltage input or output/supply	2 kV _{eff} / 5 s
Pollution severity	2	Rated voltage	300 V
Standards	DIN EN 50178, DIN EN 61000-4-2	Surge voltage category	III

Classifications

ETIM 3.0	EC001774	UNSPSC	31-12-10-07
eClass 5.1	27-21-01-20	eClass 6.0	27-21-01-20
eClass 7.0	27-21-01-20		

Approvals

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Technical data**Downloads**

Package insert	IS_WAVE_DC-DC_Print.pdf
Declaration of Conformity	K199_04_09.pdf
EPLAN	8540330000.ema
3-D model	

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www.weidmueller.com**Drawings****Electric symbol**