

WAVESERIES

WAS5 VVC HF +-10V/+-10V

Weidmüller Interface GmbH & Co. KG
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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

Type	WAS5 VVC HF +-10V/+-10V
Order No.	856161000
Version	Signal converter/disconnector, Screw connection
GTIN (EAN)	4032248251643
Qty.	1 pc(s).

Data sheet

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Technical data

Dimensions and weights

Length	92.4 mm	Width	17.5 mm
Depth	112.4 mm	Net weight	136 g

Temperatures

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

MTTF	349 Years
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Input

Supply voltage	24 V DC \pm 25 %	Number of inputs	1
Input resistance, voltage	500 k Ω	Input voltage	-10 V...0...+10 V

Output

Cut-off frequency (-3 dB)	\geq 15 kHz (typ. 20 kHz)	load impedance voltage	\geq 2 k Ω
Number of outputs	1	Output voltage, note	-10...+10 V

General data

Accuracy	\pm 0.2 % of measuring range	Configuration	none
Current-carrying capacity of cross-connect.	\leq 2 A	Galvanic isolation	3-way isolator
Input/Output	- 10...10 V / -10...+10 V	Mounting rail	TS 35
Power consumption	< 1.3 W @ I _{OUT} = 5 mA	Step response time	\leq 40 μ s (typ. 30 μ s)
Supply voltage	24 V DC \pm 25 %	Temperature coefficient	\leq 250 ppm/K of measuring range
Type of connection	Screw connection		

Insulation coordination

Clearance & creepage distances	\geq 3 mm	EMC standards	EN 55011, EN 61000-6
Galvanic isolation	3-way isolator	Impulse withstand voltage	4 kV
Insulation voltage	1.2 kV _{eff} / 5 s	Insulation voltage input or output/rail	4 kV _{eff} / 1 min.
Insulation voltage input or output/supply	1.2 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 6.2	27-21-01-20
eClass 7.1	27-21-01-20		

Product information

Descriptive text accessories	Cross-connector for power supplies and markers – refer to Accessories
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Approvals



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Drawings**Electric symbol**