

WAVESERIES

WAZ5 CCC 0-20/0-20mA

Weidmüller Interface GmbH & Co. KG
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The externally supplied ACT20M-CI-CO, MAS RPS/RPSH, MCZ CFC and WAS/WAZ 4/5 C signal converters/supply isolators can transmit, isolate and convert standardised DC current signals. They are optionally available in widths of 6 mm (ACT20M/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 (ACT20M, WAS/WAZ) or into a proportional frequency (MCZ CFC) 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) so that they can process signals quickly.

The MAS/RPS/RPSH supply isolator can supply 2-wire sensors externally. They can also be used optionally to transmit the HART protocol (MAS RPSH).

The 24 VDC supply voltage can be cross-connected on the module side via the CH20M BUS profile (ACT20M series) or using the ZQV4N (MAS/MCZ) or ZQV 2.5N (WAS/WAZ) pluggable jumpers.

International approvals (such as ATEX Zone 2, UL C1D2 and FM Div2) permit use in explosion-risk zones.

General ordering data

Order No.	8540190000
Type	WAZ5 CCC 0-20/0-20mA
Version	WAVESERIES, Signal converter/disconnector
GTIN (EAN)	4032248180592
Qty.	1 pc(s).

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Technical data
Dimensions

Length	92.4 mm	Width	17.5 mm
Height	112.4 mm		

Temperatures

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

MTTF	373
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Input

Input current	0(4)...20 mA	Number of inputs	1
Input resistance, current	≤ 110 Ω		

Output

Cut-off frequency (-3 dB)	10 Hz	Number of outputs	1
load impedance current	≤ 600 Ω	Output current	0(4)...20 mA

General data

Accuracy	0.2 %	Current-carrying capacity of cross-connect.	≤ 2 A
Galvanic isolation	3-way isolator	Input/Output	0(4)...20 mA/0(4)...20 mA
Mounting rail	TS 35	Power consumption	< 1.5 W @ I _{OUT} = 20 mA
Step response time	≤ 45 ms	Supply voltage	24 V DC ± 25 %
Temperature coefficient	± 250 ppm/K	Type of connection	Tension clamp 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	ETIM 4.0	EC002653
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

Approvals



Data sheet...**WAVESERIES**
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Declaration of Conformity	K199_04_09.pdf
EPLAN	8540190000.ema
3-D model	

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Drawings

Electric symbol

