

WAVESERIES

WAS5 CCC 0-20/4-20mA

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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

Type	WAS5 CCC 0-20/4-20mA
Order No.	8540250000
Version	Signal converter/disconnector, Screw connection
GTIN (EAN)	4032248180646
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	126 g

Temperatures

Operating temperature	0 °C...+55 °C	Storage temperature	-20 °C...+85 °C
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Input

Supply voltage	24 V DC $\pm$ 25 %	Input current	0...20 mA
Number of inputs	1	Input resistance, current	$\leq$ 110 Ω

Output

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

General data

Accuracy	0.2 %	Configuration	none
Current-carrying capacity of cross-connect.	$\leq$ 2 A	Galvanic isolation	3-way isolator
Input/Output	0...20 mA/ 4...20 mA	Mounting rail	TS 35
Power consumption	< 1.5 W @ I _{OUT} = 20 mA	Step response time	$\leq$ 45 ms
Supply voltage	24 V DC $\pm$ 25 %	Temperature coefficient	$\pm$ 250 ppm/K
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	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 6.2	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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Technical data

Approvals

Approvals



ROHS

Conform

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Package insert	instruction sheet.pdf
Declaration of Conformity	Declaration of Conformity.pdf
EPLAN	8540250000.ema
3-D model	

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Drawings

Electric symbol

