

WAVESERIES
WAS4 CCC DC 4-20/4-20MA

Weidmüller Interface GmbH & Co. KG
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1-channel signal isolating converter with external power supply: for transmitting and isolating analogue DC current and voltage signals.

The input and output parameters can be configured as required using the DIP switches.

The input and output channels are completely electrically isolated, as is the power supply.

Depending on their housing type, these converters are available in widths of 6.1 mm and 12.5 mm.

These signal isolating converters have international approvals (cULus, ATEX Zone2, FM Div 2, GL,DNV) which enable them to be used worldwide for many applications.

General ordering data

Delivery status	This article will no longer be available in the future.
Available until	2017-11-30
Type	WAS4 CCC DC 4-20/4-20MA
Order No.	8444980000
Version	Signal converter/insulator, Input : 4-20 mA, Output : 4-20 mA
GTIN (EAN)	4032248056835
Qty.	1 pc(s).
Alternative product	7760054114

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Technical data

Dimensions and weights

Length	92.4 mm	Length (inches)	3.638 inch
Width	12.5 mm	Width (inches)	0.492 inch
Depth	112.4 mm	Depth (inches)	4.425 inch
Net weight	74.9 g		

Temperatures

Humidity	40 °C / 93 % rel. humidity, no condensation	Operating temperature, max.	55 °C
Operating temperature, min.	0 °C	Storage temperature, max.	85 °C
Storage temperature, min.	-20 °C	Operating temperature	0 °C...55 °C
Storage temperature	-20 °C...85 °C		

Probability of failure

MTTF	520 Jahre
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Input

Number of inputs	1	Input current	4...20 mA
Voltage drop	Approx. 5.6 V at 20 mA		

Output

Number of outputs	1	Output current	4...20 mA
Cut-off frequency (-3 dB)	≥ 15 Hz (typ. 20 Hz)	Load impedance current	≤ 500 Ω

General data

Accuracy	± 0.2 % of final value	Configuration	none
Current consumption	< 32 mA @ I _{OUT} = 20 mA	Current-carrying capacity of cross-connect.	≤ 2 A
Galvanic isolation	2-way isolator	Input/Output	4...20 mA/ 4...20 mA
Rail	TS 35	Step response time	≤ 30 ms (typ. 20 ms)
Temperature coefficient	≤ 250 ppm/K of final value	Voltage supply	24 V DC ± 20 %

Insulation coordination

Clearance & creepage distances	≥ 3 mm	EMC standards	EN 55011, EN 61000-6
Galvanic isolation	2-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	4 kV _{eff} / 1 min.	Pollution severity	2
Rated voltage	300 V	Surge voltage category	III

Output (analogue)

Load resistance current	≤ 500 Ω	Output current	4...20 mA
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Connection data

Type of connection	Screw connection	Stripping length, rated connection	7 mm
Tightening torque, min.	0.4 Nm	Tightening torque, max.	0.5 Nm
Clamping range, rated connection	2.5 mm ²	Clamping range, min.	0.5 mm ²
Clamping range, max.	2.5 mm ²		

Classifications

ETIM 6.0	EC002653	ETIM 7.0	EC002653
eClass 9.0	27-21-01-20	eClass 9.1	27-21-01-20
eClass 10.0	27-21-01-20	UNSPSC	31-12-10-07

Product information

Product information	This product will soon be replaced by a new product. Please do not use with new systems. Please contact our technical support.
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Approvals

Approvals



ROHS	Conform
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Downloads

Approval/Certificate/Document of Conformity	Declaration of Conformity
Brochure/Catalogue	CAT 4.1 ELECTR 16/17 EN
Engineering Data	EPLAN, WSCAD
User Documentation	Instruction sheet

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Drawings

Electric symbol

