

WAZ4 VVC DC 0-10/0-10V**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Do not use product for new
developments**



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

Version	Signal converter/insulator, Input : 0-10 V, Output : 0-10 V
Order No.	8447140000
Type	WAZ4 VVC DC 0-10/0-10V
GTIN (EAN)	4032248108084
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Depth	112.4 mm	Depth (inches)	4.425 inch
Length	92.4 mm	Length (inches)	3.638 inch
Net weight	114 g	Width	12.5 mm
Width (inches)	0.492 inch		

Temperatures

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

Probability of failure

MTTF	597 Jahre
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Input

Input resistance, voltage	500 kΩ	Input voltage	0...10 V
Number of inputs	1		

Output

Cut-off frequency (-3 dB)	≥ 13 Hz (typ. 17 Hz)	Number of outputs	1
Output voltage, note	0...10 V	load impedance voltage	≥ 1 kΩ

Output (analogue)

Load resistance voltage	≥ 1 kΩ	Output voltage	0...10 V
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General data

Accuracy	± 0.2 % of final value	Current consumption	< 11 mA @ U _{UT} = 10 V
Current-carrying capacity of cross-connect.	≤ 2 A	Galvanic isolation	2-way isolator
Input/Output	0...10 V / 0...10 V	Rail	TS 35
Step response time	≤ 30 ms (typ. 25 ms)	Temperature coefficient	≤ 250 ppm/K of final value
Type of connection	Tension-clamp connection	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

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Connection data

Type of connection	Tension-clamp connection	Stripping length, rated connection	7 mm
Clamping range, rated connection	1.5 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	ECLASS 11.0	27-21-01-20

Important note

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
UL File Number Search	E141197

Downloads

Approval/Certificate/Document of Conformity	Declaration of Conformity
Engineering Data	EPLAN, WSCAD
User Documentation	Instruction sheet Instruction sheet

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Drawings

Electric symbol

