

WAZ4 CVC DC 4-20/0-10V

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com

Similar to illustration



Do not use product for new developments, Only remaining stock available



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 : 4-20 mA, Output : 0-10 V
Order No.	8445050000
Type	WAZ4 CVC DC 4-20/0-10V
GTIN (EAN)	4032248108053
Qty.	1 Stück

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Technische Daten

Dimensions and weights

Depth	112.4 mm	Depth (inches)	4.425 inch
Width	12.5 mm	Width (inches)	0.492 inch
Length	92.4 mm	Length (inches)	3.638 inch
Net weight	109 g		

Temperatures

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

Probability of failure

SIL in compliance with IEC 61508	None		
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Input

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

Output

Cut-off frequency (-3 dB)	≥ 15 Hz (typ. 20 Hz)	Load impedance current	≤ 600 Ω
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	Configuration	none
Current consumption	< 20 mA @ I _{OUT} = 10 mA	Current-carrying capacity of cross-connect.	≤ 2 A
Galvanic isolation	2-way isolator	Input/Output	4...20 mA/ 0...10 V
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 and 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

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		

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Katalogstand 12.05.2023 / Technische Änderungen vorbehalten

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Classifications

ETIM 6.0	EC002653	ETIM 7.0	EC002653
ETIM 8.0	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	ECLASS 12.0	27-21-01-20

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Technische Daten

Tender specification sheets

Long specification

Short specification

Standard signal isolating converter, 2-way isolation
1-channel signal isolating converter in 12.5 mm width with output-side power supply for transmitting and isolating analogue 4...20 mA
DC current signals. The input circuit is powered by the current loop. 0...10 V are available on the output side.

Add-on housing for TS35 rail mounting
Dimensions: L/W/H 92.4/ 12.5/ 112.4 mm
Tension-clamp connection / Nominal cross-section 1.5 mm²
Protection degree: IP 20
Input 4...20 mA / current-loop powered
Output 0...10 V
Apparent resistance at output > 1 kOhm
Transmission error < 0,2% v. E.
Limit frequency 15 Hz
Auxiliary power 24 VDC +/- 20 %
Ambient temperature range 0 °C...+55 °C

Secure isolation EN 50178, 2-way isolation up to 4 kV AC/DC
Test voltage 4 kV input against output
Rated voltage 300 V AC/DC at overvoltage category III and pollution degree 2
Approvals cULusEX, cULus, CSA

Type CCC DC 4-20/0-10V

WAZ4

Standard signal isolating converter, 2-way isolation
1-channel signal isolating converter in 12.5 mm width with output-side power supply for transmitting and isolating analogue 4...20 mA
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
SCIP	94561991-a963-4084-a5f3-dfa3a5c2a27e

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.

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E141197

Downloads

Approval/Certificate/Document of Conformity	Declaration of Conformity
Engineering Data	CAD data – STEP
Engineering Data	WSCAD, EPLAN
User Documentation	Instruction sheet
Catalogues	Catalogues in PDF-format
Brochures	

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Zeichnungen

Electric symbol

