

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**

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 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	109 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		

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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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)	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	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

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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www.weidmueller.com**Technical data****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

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Technical data

Tender specification sheets

Long 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**

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
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WAZ4

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www.weidmueller.com**Technical data****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

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Drawings

Electric symbol

