

**WAZ5 VCC 0-10V/4-20MA**

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

www.weidmueller.com

Product is no longer available, Data sheet for information only



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 : 4-20 mA
Order No.	<a href="#">8540300000</a>
Type	WAZ5 VCC 0-10V/4-20MA
GTIN (EAN)	4032248180684
Qty.	1 items
Delivery status	This article will no longer be available in the future.
Available until	2023-12-30T00:00:00+01:00
Alternative product	<a href="#">ACT20P-AI-AO-DC-P</a>

## WAZ5 VCC 0-10V/4-20mA

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

www.weidmueller.com

## Technical data

## Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate no. (cULus) E141197

## Dimensions and weights

Depth	112.4 mm	Depth (inches)	4.4252 inch
Width	17.5 mm	Width (inches)	0.689 inch
Length	92.4 mm	Length (inches)	3.6378 inch
Net weight	101.1 g		

## Temperatures

Storage temperature	-20 °C...85 °C	Operating temperature	0 °C...70 °C
Humidity at operating temperature	0...95 % (no condensation)		

## Probability of failure

SIL in compliance with IEC 61508 None

## Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c, 7a, 7cl
REACH SVHC	Lead 7439-92-1
SCIP	94561991-a963-4084-a5f3-dfa3a5c2a27e

## Input

Number inputs	1	Input voltage	0...10 V
Input resistance, voltage	typ. 100 kΩ		

## Output

Number of outputs	1	Load impedance current	≤ 600 Ω
Output current	4...20 mA	Cut-off frequency (-3 dB)	10 Hz

## Output (digital)

Rated switching current	0.1 A	Max. switching voltage, AC	0 V
-------------------------	-------	----------------------------	-----

## General data

Accuracy	0.2 %	Protection degree	IP20
Supply voltage	24 V DC ± 25 %	Step response time	≤ 45 ms
Mounting rail	TS 35	Power consumption	<1.5 W @ IOU = 20 mA
Temperature coefficient	± 250 ppm/K	Nominal power consumption	1.5 VA
Configuration	none		

## WAZ5 VCC 0-10V/4-20MA

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26  
D-32758 Detmold  
Germany

www.weidmueller.com

## Technical data

### Insulation coordination

Impulse withstand voltage	4 kV	EMC standards	EN 55011, EN 61000-6
Surge voltage category	III	Pollution severity	2
Galvanic isolation	3-way isolator	Insulation voltage input or output/rail	4 kVeff / 1 min.
Insulation voltage input or output/supply	2 kVeff / 5 s	Insulation voltage	2 kVeff / 5 s
Rated voltage	300 V		

### Connection data

Type of connection	Tension-clamp connection	Stripping length, rated connection	7 mm
Clamping range, rated connection	1.5 mm <sup>2</sup>	Clamping range, min.	0.5 mm <sup>2</sup>
Clamping range, max.	2.5 mm <sup>2</sup>		

### 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.

### Classifications

ETIM 8.0	EC002653	ETIM 9.0	EC002653
ETIM 10.0	EC002653	ECLASS 14.0	27-21-01-20
ECLASS 15.0	27-21-01-20		

### Tender specification sheets

Long specification	Standard signal isolating converter 1-channel signal isolating converter in 17.5 mm width, with external power supply, to transmit and isolate analogue DC current signals from 0 to 10 V Add-on housing for TS35 rail mounting Dimensions: L/W/H 92.4/17.5/ 112.4 mm Tension-clamp connection / Nominal cross-section 1.5 mm <sup>2</sup> Protection degree: IP 20 Input 0...10 V Output 4...20 mA Transmission error < 0,2% v. E. Limit frequency 10 Hz Auxiliary power 24 VDC +/- 25 % Power loss approx. 1.3 W Ambient temperature range 0 °C...+55 °C Secure isolation EN 50178, 3-way isolation up to 4 kV AC/DC of all circuits against each other	Short specification	Standard signal isolating converter 1-channel signal isolating converter in 17.5 mm width, with external power supply, for transmitting and isolating analogue DC current signals from 0 to 10 V
--------------------	--	---------------------	---

**WAZ5 VCC 0-10V/4-20MA**

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

[www.weidmueller.com](http://www.weidmueller.com)

**Technical data**

Test  
voltage  
4 kV input against output  
against auxiliary power  
Rated  
voltage  
300 V AC/DC at  
overvoltage category III  
and pollution degree 2  
Approvals cULus  
Type  
WAZ5 VCC  
0-10/4-20MA

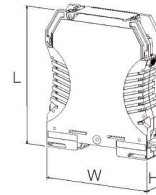
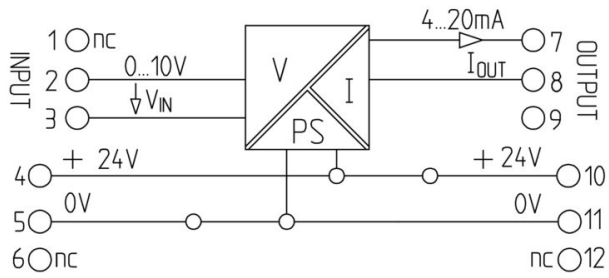
## WAZ5 VCC 0-10V/4-20MA

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

# Drawings

[www.weidmueller.com](http://www.weidmueller.com)

### Electric symbol



## WAZ5 VCC 0-10V/4-20MA

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

www.weidmueller.com

## Accessories

### Cross-connections



The distribution or multiplication of a potential to adjoining terminal blocks is realized via a cross-connection. Additional wiring effort can be easily avoided. Even if the poles are broken out, contact reliability in the terminal blocks is still ensured. Our portfolio offers pluggable and screwable cross-connection systems for modular terminal blocks.

### General ordering data

Type	ZQV 2.5N/2 GE	Version
Order No.	<a href="#">1693800000</a>	W-Series, Cross-connector, 24 A
GTIN (EAN)	40081908883621	
Qty.	60 ST	
Type	ZQV 2.5N/2 RT	Version
Order No.	<a href="#">1717900000</a>	W-Series, Cross-connector, 24 A
GTIN (EAN)	4008190349288	
Qty.	60 ST	
Type	ZQV 2.5N/2 BL	Version
Order No.	<a href="#">1717990000</a>	W-Series, Cross-connector, 24 A
GTIN (EAN)	4008190349295	
Qty.	60 ST	
Type	ZQV 2.5N/2 SW	Version
Order No.	<a href="#">1718080000</a>	W-Series, Cross-connector, 24 A
GTIN (EAN)	4008190349301	
Qty.	60 ST	

### Blank



WS markers are the perfect match for the W-series connectors. Thanks to their system compatibility, the WS tags can also be used with the I-series and the Z-series. The large marking surfaces do not only permit long character strings but also multi-line text. WS markers are ideal for labels with long, customised character strings. Thanks to the proven MultiCard format, printing with PrintJet CONNECT oder/or Plotter is possible.

- Can be fitted in strips or individually
- Markers in proven MultiCard format

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

### General ordering data

Type	WS 10/5 MC NE WS	Version
Order No.	<a href="#">1635000000</a>	WS, Terminal marker, 10 x 5 mm, Pitch in mm (P): 5.00 Weidmueller,
GTIN (EAN)	4008190261948	Allen-Bradley, white
Qty.	720 ST	