

**WAS4 CCC DC 4-20/0-20MA****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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 : 4-20 mA, Output : 0-20 mA
Order No.	<a href="#">8445010000</a>
Type	WAS4 CCC DC 4-20/0-20MA
GTIN (EAN)	4032248056842
Qty.	1 pc(s).
Delivery status	<b>This article will no longer be available in the future.</b>
Available until	2022-12-31
Alternative product	<a href="#">1176010000</a>

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## Technical data

## 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...70 °C
Humidity at operating temperature	0...95 % (no condensation)	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	≤ 500 Ω
Number of outputs	1	Output current	0...20 mA

## Output (digital)

Max. switching voltage, AC	0 V	Rated switching current	0.1 A
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## Output (analogue)

Load resistance current	≤ 500 Ω	Output current	0...20 mA
Output current	0...20 mA		

## General data

Accuracy	± 0.2 % of final value	Configuration	none
Current consumption	<32 mA @ I <sub>OUT</sub> = 20 mA	Galvanic isolation	2-way isolator
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

EMC standards	EN 55011, EN 61000-6	Galvanic isolation	2-way isolator
Impulse withstand voltage	4 kV	Insulation voltage	1.2 kV <sub>eff</sub> / 5 s
Insulation voltage input or output/rail	4 kV <sub>eff</sub> / 1 min.	Insulation voltage input or output/supply	4 kV <sub>eff</sub> / 1 min.
Pollution severity	2	Rated voltage	300 V
Surge voltage category	III		

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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 <sup>2</sup>	Clamping range, min.	0.5 mm <sup>2</sup>
Clamping range, max.	2.5 mm <sup>2</sup>		

**Classifications**

ETIM 6.0	EC002653	ETIM 7.0	EC002653
ETIM 8.0	EC002653	ETIM 9.0	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	ECLASS 13.0	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...20 mA are available on the output side.**

**Add-on housing for TS35 rail mounting**  
**Dimensions: L/W/H**  
**92.4/ 12.5/ 112.4 mm**  
**Screw connection / Nominal cross-section**  
**2.5 mm<sup>2</sup>**  
**Protection degree: IP**  
**20**  
**Input** 4...20 mA / current-loop powered  
**Output**  
**0...20 mA**  
**Apparent resistance at output** < 500 Ohm  
**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** CULus, CSA

**Type-**  
**CCC DC 4-20/0-20MA**

#### 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...20 mA are available on the output side.**

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REACH SVHC	Lead 7439-92-1
SCIP	b25f3b7c-b874-4a4e-a8b2-4f423a7e2a65

**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	UL Website
Certificate no. (cULus)	E141197

**Downloads**

Approval/Certificate/Document of Conformity	<a href="#">Application notes – Declaration of Conformity</a>
Engineering Data	<a href="#">CAD data – STEP</a>
User Documentation	<a href="#">Device description – Instruction sheet</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>
Brochures	

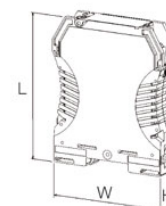
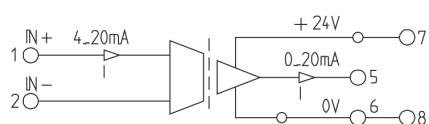
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# Drawings

## Electric symbol



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## Accessories

### 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.

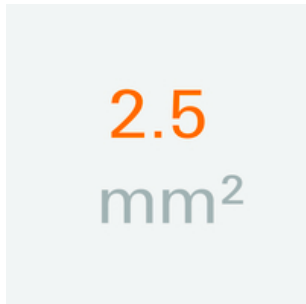
- Can be fitted in strips or individually
- Markers in proven MultiCard format

**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 pc(s).	

### 2.5 mm<sup>2</sup>



The plug-in cross-connections feature easy handling and quick installation. This saves a great deal of time during installation in comparison with screwed solutions.

### General ordering data

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

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Type	ZQV 2.5N/2 GE	Version
Order No.	<a href="#">1693800000</a>	W-Series, Cross-connector, 24 A
GTIN (EAN)	4008190883621	
Qty.	60 pc(s).	