

WAS4 CCC DC 4-20/0-20MA**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 : 4-20 mA, Output : 0-20 mA
Order No.	8445010000
Type	WAS4 CCC DC 4-20/0-20MA
GTIN (EAN)	4032248056842
Qty.	1 pc(s).
Delivery status	This article will no longer be available in the future.
Available until	2022-12-31
Alternative product	1176010000

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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...55 °C
Humidity	40 °C / 93 % rel. humidity, no condensation		

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 (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 _{OUT} = 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 _{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	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 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
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	27210120

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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 mm²
 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

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Environmental Product Compliance

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	Application notes – Declaration of Conformity
Engineering Data	CAD data – STEP
User Documentation	Device description – Instruction sheet
Catalogues	Catalogues in PDF-format
Brochures	

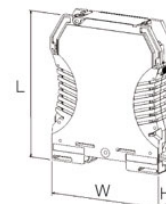
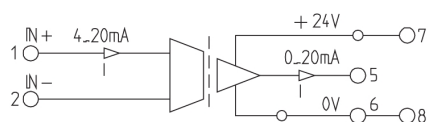
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Drawings

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.

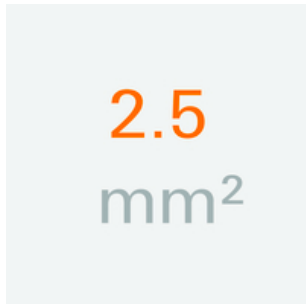
- Can be fitted in strips or individually
- Markers in proven MultiCard format

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.	1635000000	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 mm²



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.	1717990000	W-Series, Cross-connector, 24 A
GTIN (EAN)	4008190349295	
Qty.	60 pc(s).	
Type	ZQV 2.5N/2 SW	Version
Order No.	1718080000	W-Series, Cross-connector, 24 A
GTIN (EAN)	4008190349301	
Qty.	60 pc(s).	
Type	ZQV 2.5N/2 RT	Version
Order No.	1717900000	W-Series, Cross-connector, 24 A
GTIN (EAN)	4008190349288	
Qty.	60 pc(s).	

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Accessories

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