

WAVESERIES

WAS4 VCC DC 0-10/4-20mA

Weidmüller Interface GmbH & Co. KG
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 Germany
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 Fax: +49 5231 14-292083
 www.weidmueller.com



Do not use product for new developments



When used for industrial monitoring applications, sensors can record ambience conditions. Sensor signals are used within the process to continually track changes to the area being monitored. Both digital and analogue signals can occur.

Normally an electrical voltage or current value is produced which corresponds proportionally to the physical variables that are being monitored. Analogue signal processing is required when automation processes have to constantly maintain or reach defined conditions. This is particularly significant for process automation applications. Standardised electrical signals are typically used for process engineering. Analogue standardised currents / voltage 0(4)...20 mA/ 0...10 V have established themselves as physical measurement and control variables.

Weidmüller meets the ever increasing challenges of automation and offers a product portfolio tailored to the requirements of handling sensor signals in analogue signal processing.

The analogue signal processing products can be used universally in combination with other Weidmüller products and in combination among each other. Their

electrical and mechanical design is such that they require only minimal wiring efforts.

Housing types and wire-connection methods matched to the respective application facilitate the universal use in process and industrial automation applications.

The product line includes the following functions:

- Isolating transformers, supply isolators and signal converters for DC standard signals
- Temperature measuring transducers for resistance thermometers and thermocouples,

frequency converters,

- potentiometer measuring transducers,
- bridge measuring transducers (strain gauges)

trip amplifiers and modules for monitoring electrical

and non-electrical process variables

AD/DA converters

displays

GTIN (EAN)

calibration devices

Alternative product

The products mentioned are available as pure signal converters / isolation transducers, 2-way/3-way isolators, supply isolators, passive isolators or as trip amplifiers.

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Technical data
Dimensions and weights

Length	92.4 mm	Length (inches)	3.638 inch
Width	12.5 mm	Width (inches)	0.492 inch
Depth	112.4 mm	Depth (inches)	4.425 inch
Net weight	111 g		

Temperatures

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

Probability of failure

MTTF	519 Jahre
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Input

Number of inputs	1	Input voltage	0...10 V
Input resistance, voltage	500 kΩ		

Output

Number of outputs	1	Output current	4...20 mA
Cut-off frequency (-3 dB)	≥ 13 Hz (typ. 17 Hz)	load impedance current	≤ 500 Ω

General data

Accuracy	± 0.2 % of final value	Current consumption	< 32 mA @ I _{OUT} = 20 mA
Current-carrying capacity of cross-connect.	≤ 2 A	Galvanic isolation	2-way isolator
Input/Output	0...10 V / 4...20 mA	Mounting rail	TS 35
Step response time	≤ 30 ms (typ. 25 ms)	Supply voltage	24 V DC ± 20 %
Temperature coefficient	≤ 250 ppm/K of final value		

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.
Pollution severity	2	Rated voltage	300 V
Standards	DIN EN 50178, DIN EN 61000-4-2	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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Classifications

ETIM 3.0	EC001774	ETIM 4.0	EC002653
ETIM 5.0	EC002653	ETIM 6.0	EC002653
UNSPSC	31-12-10-07	eClass 5.1	27-21-01-20
eClass 6.2	27-21-01-20	eClass 7.1	27-21-01-20
eClass 8.1	27-21-01-20	eClass 9.0	27-21-01-20
eClass 9.1	27-21-01-20		

Product information

Product information	This product will soon be replaced by a new product. Please do not use with new systems. Please contact our technical support.
Descriptive text accessories	Cross-connector for power supplies and markers – refer to Accessories

Approvals

Approvals



ROHS	Conform
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Downloads

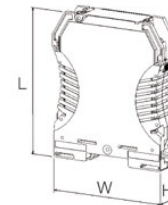
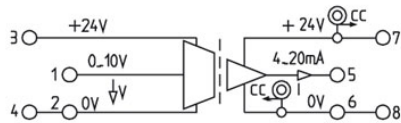
Approval/Certificate/Document of Conformity	Declaration of Conformity
Engineering Data	EPLAN, WSCAD
User Documentation	Instruction sheet

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Drawings

Electric symbol



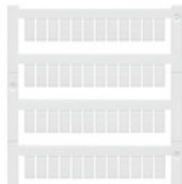
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Accessories

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 laser printer, PrintJet ADVANCED, plotter or MC-Mobilo is possible.

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

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
WS 10/5 MC	1635000000	WS, Terminal marker, 10 x	4008190261948	720 pc(s).
NE WS		5 mm, Pitch in mm (P): 5.00 Weidmueller, Allen-Bradley, White		

ZQV 2.5N



Spring connection with tension clamp Technology

Tension clamp technology is a universal contact system for all common conductor connection types. Its fantastic level of flexibility makes the tension clamp a profitable alternative connection.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
ZQV 2.5N/2 SW	1718080000	Accessories, Cross-connector, 24 A	4008190349301	60 pc(s).
ZQV 2.5N/2 RT	1717900000	Accessories, Z-series, Cross-connector, 24 A	4008190349288	60 pc(s).
ZQV 2.5N/2 BL	1717990000	Accessories, Cross-connector, 24 A	4008190349295	60 pc(s).
ZQV 2.5N/2 GE	1693800000	Z-series, Cross-connector, 24 A	4008190883621	60 pc(s).