

WAS5 CVC 4-20MA/0-10V

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

www.weidmueller.com

Product is no longer available, Data sheet for information only

Similar to illustration



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. | 8540230000 |
| Type | WAS5 CVC 4-20MA/0-10V |
| GTIN (EAN) | 4032248180622 |
| Qty. | 1 items |
| Delivery status | Discontinued |
| Available until | 2022-12-31T00:00:00+01:00 |
| Alternative product | ACT20M-AI-AO-E-S |

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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 | 99.9 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 | MTTF | 371 a |
|----------------------------------|------|------|-------|

Environmental Product Compliance

| | |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status | Compliant with exemption |
| RoHS Exemption (if applicable/known) | 6c, 7a, 7cl |
| REACH SVHC | Lead 7439-92-1 |
| SCIP | b25f3b7c-b874-4a4e-a8b2-4f423a7e2a65 |

Input

| | | | |
|---------------------------|---------|---------------|-----------|
| Number inputs | 1 | Input current | 4...20 mA |
| Input resistance, current | ≤ 110 Ω | | |

Output

| | | | |
|----------------------|----------|---------------------------|--------|
| Number of outputs | 1 | load impedance voltage | ≥ 1 kΩ |
| Output voltage, note | 0...10 V | 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 | <1.3 W @ IOU = 5 mA |
| Temperature coefficient | ± 250 ppm/K | Nominal power consumption | 1.5 VA |
| Configuration | none | | |

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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 | 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 | | |

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 | | |

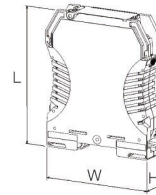
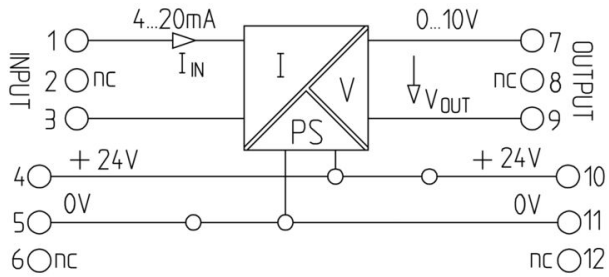
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Drawings

Electric symbol



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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. | 1693800000 | W-Series, Cross-connector, 24 A |
| GTIN (EAN) | 4008190883621 | |
| Qty. | 60 ST | |
| Type | ZQV 2.5N/2 RT | Version |
| Order No. | 1717900000 | W-Series, Cross-connector, 24 A |
| GTIN (EAN) | 4008190349288 | |
| Qty. | 60 ST | |
| Type | ZQV 2.5N/2 BL | Version |
| Order No. | 1717990000 | W-Series, Cross-connector, 24 A |
| GTIN (EAN) | 4008190349295 | |
| Qty. | 60 ST | |
| Type | ZQV 2.5N/2 SW | Version |
| Order No. | 1718080000 | 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. | 1635000000 | WS, Terminal marker, 10 x 5 mm, Pitch in mm (P): 5.00 Weidmueller, |
| GTIN (EAN) | 4008190261948 | Allen-Bradley, white |
| Qty. | 720 ST | |