

**WAZ5 CCC LP 0-20/0-20MA**

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

www.weidmueller.com

**Do not use product for  
 new developments, Only  
 remaining stock available**



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             | Passive isolator, Input : 0(4)-20 mA, (loop powered), Output : 0(4)-20 mA |
| Order No.           | <a href="#">8444960000</a>  |
| Type                | WAZ5 CCC LP 0-20/0-20MA   |
| GTIN (EAN)          | 4032248102105   |
| Qty.                | 1 Stück   |
| Delivery status     | <b>This article will no longer be available in the future.</b>            |
| Available until     | 2022-12-31  |
| Alternative product | <a href="#">7760054357</a>  |

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## Technische Daten

### Dimensions and weights

|            |          |                 |            |
|------------|----------|-----------------|------------|
| Depth      | 112.4 mm | Depth (inches)  | 4.425 inch |
| Width      | 17.5 mm  | Width (inches)  | 0.689 inch |
| Length     | 92.4 mm  | Length (inches) | 3.638 inch |
| Net weight | 92.4 g   |                 |            |

### Temperatures

|                             |                |                             |                |
|-----------------------------|----------------|-----------------------------|----------------|
| Storage temperature         | -40 °C...80 °C | Operating temperature       | -25 °C...70 °C |
| Operating temperature, min. | -25 °C         | Operating temperature, max. | 70 °C          |

### Probability of failure

|      |             |
|------|-------------|
| MTTF | 2,097 Jahre |
|------|-------------|

### Input

|                 |                           |                  |   |
|-----------------|---------------------------|------------------|---|
| Input current   | 0(4)...20 mA current loop | Number of inputs | 1   |
| Pick-up current | < 100 µA                  | Voltage drop     | Approx. 3 V at $R_L = 0 \Omega$ ;<br>approx. 13 V at $R_L = 500 \Omega$ ; ( $I_N = 20 \text{ mA}$ ) |

### Output

|                        |                      |                   |   |
|------------------------|----------------------|-------------------|---|
| Load impedance current | $\leq 500 \Omega$    | Number of outputs | 1 |
| Output current         | 0...20 mA, 4...20 mA |                   |   |

### Output (analogue)

|                |                      |
|----------------|----------------------|
| Output current | 0...20 mA, 4...20 mA |
|----------------|----------------------|

### General data

|                    |                                 |                         |  |
|--------------------|---------------------------------|-------------------------|--|
| Accuracy           | < 0.1 % of end value            | Configuration           | none                                     |
| Galvanic isolation | Passive isolator                | Input/Output            | 0(4)...20 mA/0(4)...20 mA<br>(1-channel) |
| Rail               | TS 35                           | Temperature coefficient | $\leq 50 \text{ ppm/K}$ of final value   |
| Voltage supply     | via the input measuring circuit |                         |  |

### Insulation coordination

|                                  |                           |   |                              |
|----------------------------------|---------------------------|---|------------------------------|
| Clearance and creepage distances | $\geq 5.5 \text{ mm}$     | EMC standards                           | EN 55011, EN 61000-6         |
| Galvanic isolation               | Passive isolator          | Impulse withstand voltage               | 6 kV                         |
| Insulation voltage               | 4 kV <sub>eff</sub> / 1 s | Insulation voltage input or output/rail | 4 kV <sub>eff</sub> / 1 min. |
| Pollution severity               | 2                         | Rated voltage                           | 300 V                        |
| Surge voltage category           | III                       |   |                              |

### 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>      |                                    |                     |

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### Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002653    | ETIM 7.0    | EC002653    |
| ETIM 8.0    | 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 |

### Tender specification sheets

#### Long specification

Standard signal passive isolator, input-loop powered 1-channel passive isolator in 17.5 mm width with input current loop feed, for transmitting and isolating analogue DC current signals from 0/4 to 20 mA Add-on housing for TS35 DIN rail installation  
 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: IP20 Input 0/4 to 20 mA Output 0/4 to 20 mA Voltage drop approx. 3 V at RL 0 Ohm, 13 V at RL = 500 Ohm (20 mA) load resistance  
 Transmission error  
 Auxiliary power 0/4...20 mA input current loop  
 Ambient temperature range -25 °C...+70 °C  
 Isolation EN 50178 , 2-way isolation up to 4 kV AC/DC  
 Test voltage 6 kV  
 Rated voltage 300 V AC/DC at overvoltage category III and pollution degree 2  
 Approvals cULus, cULusEX, CSA, GL

Type **WAZ5 CCC-LP 0-20/0-20mA**

#### Short specification

**Standard signal passive isolator, input-loop powered 1-channel signal passive isolator in 17.5 mm width with input current loop feed, for transmitting and isolating analogue DC current signals from 0/4 to 20 mA**

### Environmental Product Compliance

REACH SVHC Lead 7439-92-1

### 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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## Technische Daten

### Approvals

Approvals



|                           |            |
|---------------------------|------------|
| ROHS                      | Conform    |
| UL File Number Search     | UL Website |
| Certificate no. (cULus)   | E141197    |
| Certificate no. (cULusEX) | E223527    |

### Downloads

|   |   |
|---|---|
| Approval/Certificate/Document of Conformity | <a href="#">Declaration of Conformity</a> |
| Engineering Data                            | <a href="#">CAD data – STEP</a>           |
| Engineering Data                            | <a href="#">WSCAD, EPLAN</a>              |
| User Documentation                          | <a href="#">Instruction sheet</a>         |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>  |
| Brochures                                   |   |

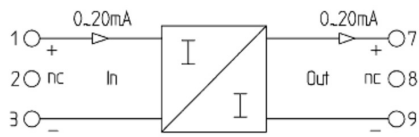
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## Zeichnungen

### Connection diagram



### Derating curve

