

## MCZ PT100/3 CLP -50C...+150C

**Weidmüller Interface GmbH & Co. KG**

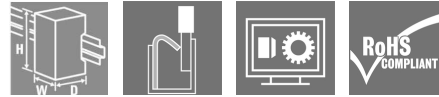
Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)

### Product image



### MCZ: The smallest solution

- The smallest analogue signal converter in terminal block format on the market
- Space-saving conversion of analogue signals in the control cabinet thanks to the slim, 6 mm wide module width
- Simple wiring with plug-in cross-connectors

### General ordering data

|            |                                                          |
|------------|----------------------------------------------------------|
| Version    | Temperature input range: -50...+150 °C, Output : 4-20 mA |
| Order No.  | <a href="#">8473000000</a>                               |
| Type       | MCZ PT100/3 CLP -50C...+150C                             |
| GTIN (EAN) | 4032248058273                                            |
| Qty.       | 10 pc(s).                                                |

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## Technical data

## Dimensions and weights

|                |            |                 |            |
|----------------|------------|-----------------|------------|
| Depth          | 63.2 mm    | Depth (inches)  | 2.488 inch |
| Length         | 91 mm      | Length (inches) | 3.583 inch |
| Net weight     | 29.2 g     | Width           | 6 mm       |
| Width (inches) | 0.236 inch |                 |            |

## Temperatures

|                     |                |                       |                |
|---------------------|----------------|-----------------------|----------------|
| Storage temperature | -25 °C...85 °C | Operating temperature | -25 °C...50 °C |
|---------------------|----------------|-----------------------|----------------|

## Probability of failure

|      |             |
|------|-------------|
| MTTF | 1,068 Years |
|------|-------------|

## Environmental Product Compliance

|            |                |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

## Input

|                  |                      |                         |                |
|------------------|----------------------|-------------------------|----------------|
| Number of inputs | 1                    | Sensor                  | PT100 (3 wire) |
| Sensor supply    | 0.8 mA / 9...30 V DC | Temperature input range | -50...+150 °C  |

## Output

|                        |                                        |                   |   |
|------------------------|----------------------------------------|-------------------|---|
| Load impedance current | ≤ 600 Ω                                | Number of outputs | 1 |
| Output current         | 4...20 mA (current loop) at 9...30V DC |                   |   |

## General data

|                         |                                                         |                    |                          |
|-------------------------|---------------------------------------------------------|--------------------|--------------------------|
| Accuracy                | Typ.: 0.2 %, máx. 0.5 % v. FSR                          | Configuration      | none                     |
| Galvanic isolation      | Without isolation, between input/output                 | Linearity          | Yes                      |
| Rail                    | TS 35                                                   | Step response time | 10 ms                    |
| Temperature coefficient | max. ± 250 ppm/K                                        | Type of connection | Tension-clamp connection |
| Voltage supply          | Output loop powered, max. 30 V/ min. 9 V + (20 mA x RL) |                    |                          |

## Insulation coordination

|                        |            |                    |                                         |
|------------------------|------------|--------------------|-----------------------------------------|
| EMC standards          | EN 61000-6 | Galvanic isolation | Without isolation, between input/output |
| Pollution severity     | 2          | Rated voltage      | 50 V                                    |
| Surge voltage category | I          |                    |                                         |

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## Connection data

|                                                                                         |                          |                                                                                         |                     |
|-----------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------|---------------------|
| Type of connection                                                                      | Tension-clamp connection | Clamping range, rated connection                                                        | 1.5 mm <sup>2</sup> |
| Clamping range, min.                                                                    | 0.5 mm <sup>2</sup>      | Clamping range, max.                                                                    | 1.5 mm <sup>2</sup> |
| Wire connection cross section AWG, min.                                                 | AWG 26                   | Wire connection cross section AWG, max.                                                 | AWG 16              |
| Wire cross-section, solid, min.                                                         | 0.5 mm <sup>2</sup>      | Wire cross-section, solid, max.                                                         | 1.5 mm <sup>2</sup> |
| Wire cross-section, solid, min. (AWG)                                                   | AWG 26                   | Wire cross-section, solid, max. (AWG)                                                   | AWG 16              |
| Wire connection cross section, finely stranded, min.                                    | 0.5 mm <sup>2</sup>      | Wire connection cross section, finely stranded, max.                                    | 1.5 mm <sup>2</sup> |
| Wire cross-section, finely stranded, min. (AWG)                                         | AWG 26                   | Wire cross-section, finely stranded, max. (AWG)                                         | AWG 16              |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 0.5 mm <sup>2</sup>      | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 1.5 mm <sup>2</sup> |
| Conductor cross-section, flexible, AEH (DIN 46228-1), min.                              | 0.5 mm <sup>2</sup>      | Conductor cross-section, flexible, AEH (DIN 46228-1), max.                              | 1.5 mm <sup>2</sup> |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002919    | ETIM 7.0    | EC002919    |
| ECLASS 9.0  | 27-21-01-29 | ECLASS 9.1  | 27-21-01-29 |
| ECLASS 10.0 | 27-21-01-29 | ECLASS 11.0 | 27-21-01-29 |

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## Technical data

## Tender specification sheets

## Long specification

**PT100 temperature measuring transformer, output-loop powered, 3-wire connection technology**

RTD measuring transformer in 6 mm width  
4...20 mA output-loop powered  
without electrical isolation, for transmitting PT100 2-/3-wire signals.  
Input temperature range **-50...+150 °C.**

Add-on housing for TS35 rail mounting  
Dimensions: L/W/H 91/6/ 63.2 mm  
Tension-clamp connection / Nominal cross-section 1.5 mm<sup>2</sup>  
Protection degree: IP 20  
Input PT100, 2-/3-wire  
Output 4...20 mA Load resistance  
Transmission error Auxiliary power via 4...20 mA current loop  
Ambient temperature range 0°C...+50 °C < 0,2 % v. E.  
Isolation no electrical isolation  
Approvals cURus, CSA

**Type** MCZ PT100/3 CLP  
**-50C...+150C**

## Short specification

**PT100 temperature measuring transformer, output-loop powered, 3-wire connection technology**  
RTD measuring transformer in 6 mm width, 4...20 mA output-loop powered without electrical isolation, for transmitting PT100 2-/3-wire signals.  
Input temperature range -50...+150 °C.

## Approvals

## Approvals



|                       |         |
|-----------------------|---------|
| ROHS                  | Conform |
| UL File Number Search | E141197 |

## Downloads

|                                             |                                           |
|---------------------------------------------|-------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">Declaration of Conformity</a> |
| Engineering Data                            | <a href="#">STEP</a>                      |
| Engineering Data                            | <a href="#">EPLAN, WSCAD, Zuken E3.S</a>  |
| User Documentation                          | <a href="#">Instruction sheet</a>         |

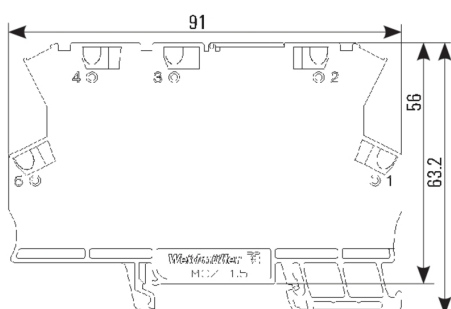
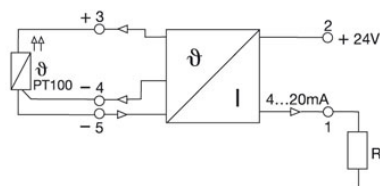
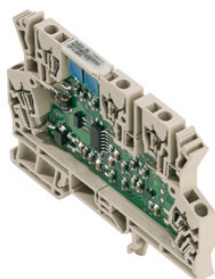
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# Drawings

## Connection diagram



dimensions