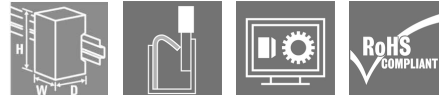


MCZ SERIES

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

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
 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

| | |
|------------|-----------------------------------|
| Type | MCZ PT100/3 CLP -50C...+150C |
| Order No. | 8473000000 |
| Version | MCZ SERIES, Temperature converter |
| GTIN (EAN) | 4032248058273 |
| Qty. | 10 pc(s). |

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Technical data**Dimensions and weights**

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

Temperatures

| | | | |
|-----------------------------|----------------|-----------------------------|----------------|
| Operating temperature, max. | 50 °C | Operating temperature, min. | -25 °C |
| Storage temperature, max. | 85 °C | Storage temperature, min. | -25 °C |
| Operating temperature | -25 °C...50 °C | Storage temperature | -25 °C...85 °C |

Probability of failure

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

Environmental Product Compliance

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

Rated data UL

| | |
|-------------------------|---------|
| Certificate No. (cURus) | E141197 |
|-------------------------|---------|

Input

| | | | |
|------------------|----------------------|-------------------------|--|
| Number of inputs | 1 | Sensor | PT100/2-/3-wire (in compliance with IEC 751) |
| Sensor supply | 0.8 mA / 9...30 V DC | Temperature input range | -50...+150 °C |

Output

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

General data

| | | | |
|--------------------|---|-------------------------|---------------------------------|
| Accuracy | Typ.: 0.2 %, máx. 0.5 % v. FSR | Configuration | none |
| Galvanic isolation | between input/output | Input/Output | PT100/ 4...20 mA (current loop) |
| Linearity | Yes | Rail | TS 35 |
| Step response time | 10 ms | Temperature coefficient | max. ± 250 ppm/K |
| Voltage supply | Output loop powered, max. 30 V/ min. 9 V + (20 mA x RL) | | |

Insulation coordination

| | | | |
|------------------------|------------|--------------------|----------------------|
| EMC standards | EN 61000-6 | Galvanic isolation | between input/output |
| Pollution severity | 2 | Rated voltage | 50 V |
| Surge voltage category | I | | |

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Technical data

Connection data

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

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 | UNSPSC | 30-21-18-01 |

Approvals

Approvals



ROHS Conform

Downloads

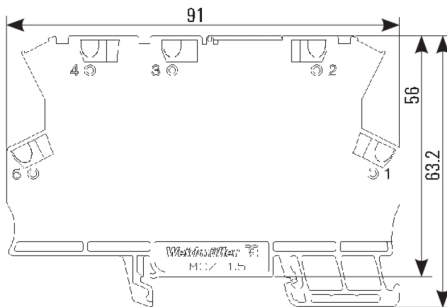
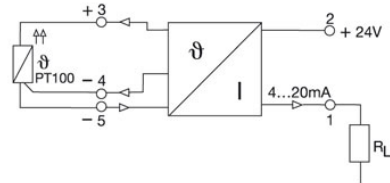
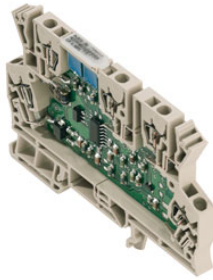
| | |
|---|---|
| Approval/Certificate/Document of Conformity | Declaration of Conformity |
| Brochure/Catalogue | CAT 4.1 ELECTR 16/17 EN |
| Engineering Data | EPLAN, WSCAD, Zuken E3.S |
| Engineering Data | STEP |
| User Documentation | Instruction sheet |

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Drawings

Connection diagram



dimensions