

MCZ PT100/3 CLP 0...120C

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Dimensions and weights

| | | | |
|------------|---------|-----------------|------------|
| Depth | 63.2 mm | Depth (inches) | 2.488 inch |
| Width | 6 mm | Width (inches) | 0.236 inch |
| Length | 91 mm | Length (inches) | 3.583 inch |
| Net weight | 29 g | | |

Temperatures

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

Probability of failure

| | | | |
|----------------------------------|------|------|-------------|
| SIL in compliance with IEC 61508 | None | MTTF | 1,060 Years |
|----------------------------------|------|------|-------------|

Input

| | | | |
|------------------|----------------------|-------------------------|----------------|
| Number of inputs | 1 | Sensor | PT100 (3 wire) |
| Sensor supply | 0.8 mA / 9...30 V DC | Temperature input range | 0...120 °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 | Linearity | Yes |
| Long-term drift | 0 | 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 |
| 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 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 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 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 |
| ETIM 8.0 | 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 | ECLASS 12.0 | 27-21-01-29 |

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Tender specification sheets

Long specification

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 **0...+120 °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 mm²
 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 0...120C

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 0...+120 °C.

Environmental Product Compliance

| | |
|------------|--------------------------------------|
| REACH SVHC | Lead 7439-92-1 |
| SCIP | c2a21576-d875-4548-ae68-5e7f85ddf0c7 |

Approvals

Approvals



| | |
|------|---------|
| ROHS | Conform |
|------|---------|

Data sheet**MCZ PT100/3 CLP 0...120C**

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Technical data**Downloads**

| | |
|---|---|
| Approval/Certificate/Document of Conformity | Declaration of Conformity |
| Engineering Data | CAD data – STEP |
| Engineering Data | WSCAD |
| User Documentation | Instruction sheet |
| Catalogues | Catalogues in PDF-format |
| Brochures | |

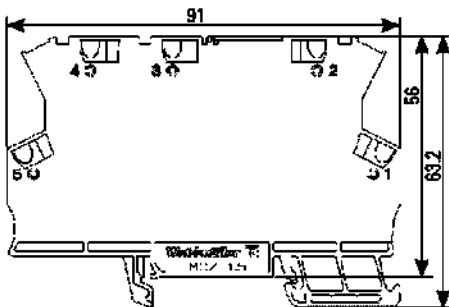
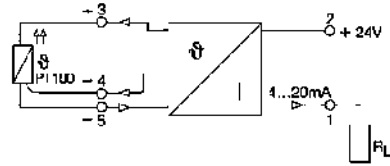
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Drawings

Connection diagram



dimensions