

## MCZ PT100/3 CLP 0...120C

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

www.weidmueller.com

### Product image, Similar to illustration



#### 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	2-/3-wire connection technology, Output current loop powered, Tension-clamp connection, Output : 4-20 mA
Order No.	<a href="#">8483680000</a>
Type	MCZ PT100/3 CLP 0...120C
GTIN (EAN)	4032248157853
Qty.	10 Stück

Erstellungs-Datum June 1, 2023 11:40:41 AM CEST

Katalogstand 26.05.2023 / Technische Änderungen vorbehalten

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## Technische Daten

### 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 a
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### 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
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 <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
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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**Technische Daten**

**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 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 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
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## Technische Daten

### 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	

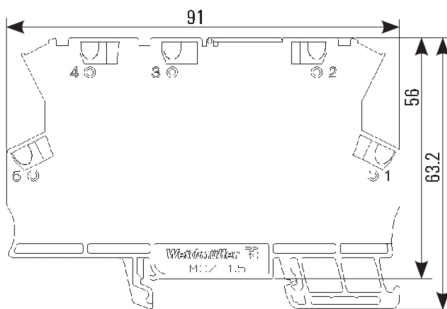
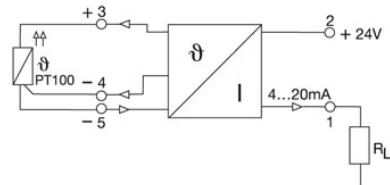
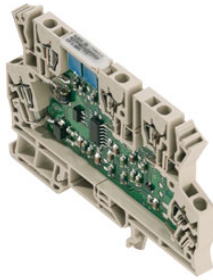
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**Zeichnungen**

**Connection diagram**



dimensions