

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

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Output-current loop-powered PT100 signal converters in 3 designs

The signal converters designed for a specific temperature range are suitable for connecting 2- and 3-conductor PT100 sensors. On the output side there is a loop-powered 4...20 mA signal.

I.e. the active analogue control interface powers the signal converter.

The signal converters can be mounted on a TS35 rail and feature high accuracy and linearity.

General ordering data

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

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Technische Daten

Dimensions and weights

Length	91 mm	Width	6 mm
Depth	63.2 mm	Net weight	29.6 g

Temperatures

Operating temperature	-25 °C...+50 °C	Storage temperature	-25 °C...+85 °C
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Probability of failure

MTTF	1,068 Years
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Input

Sensor supply	0.8 mA / 9...30 V DC	Supply voltage	max. 30 V/ min. 9 V + (20 mA x RL)
Number of inputs	1	Temperature input range	-50...+150 °C
Sensor	PT100/2-/3-wire (in compliance with IEC 751)		

Output

Number of outputs	1	load impedance current	≤ 600 Ω
Output current	4...20 mA (current loop)		

General data

Accuracy	Typical 0.2%, max. 0.5% of FSR	Configuration	none
Galvanic isolation	Without isolation	Input/Output	PT100/ 4...20 mA (current loop)
Linearity	Yes	Mounting rail	TS 35
Step response time	10 ms	Supply voltage	max. 30 V/ min. 9 V + (20 mA x RL)
Temperature coefficient	max. ± 250 ppm/K	Type of connection	Tension clamp connection

Insulation coordination

EMC standards	EN 61000-6	Galvanic isolation	Without isolation
Standards	DIN EN 50178, DIN EN 61000-4-2		

Classifications

ETIM 3.0	EC001774	UNSPSC	30-21-18-01
eClass 5.1	27-20-02-06	eClass 6.2	27-20-02-06
eClass 7.1	27-20-02-06		

Product information

Descriptive text ordering data	
Descriptive text accessories	Cross-connectors for power supplies and markers: refer to accessories

Datenblatt**MCZ SERIES
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Technische Daten**Approvals**

Approvals



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Declaration of Conformity

[Declaration of Conformity.pdf](#)[3D Modell](#)

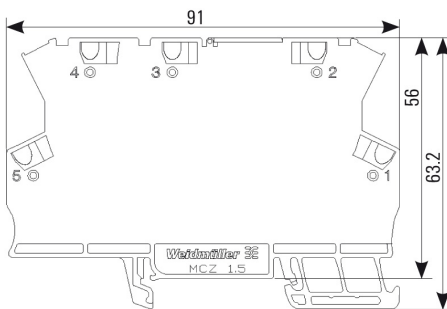
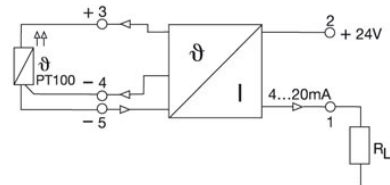
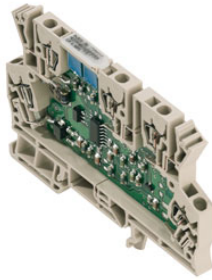
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Zeichnungen

Electric symbol



dimensions