

MCZ PT100/3 CLP 0...100C

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

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 converter, 2-/3-wire connection technology, Output current loop powered, Tension-clamp connection, Output : 4-20 mA
Order No.	8425720000
Type	MCZ PT100/3 CLP 0...100C
GTIN (EAN)	4032248012664
Qty.	10 pièce(s)

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Caractéristiques techniques

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	28,9 g		

Temperatures

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

SIL in compliance with IEC 61508	None	MTTF	1 066 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...100 °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	Protection degree	IP20
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 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	ETIM 9.0	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	ECLASS 13.0	27-21-01-29
ECLASS 14.0	27-21-01-29		

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Caractéristiques techniques

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 0...+100 °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...100C

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...+100 °C.

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c, 7a, 7cl
REACH SVHC	Lead 7439-92-1
SCIP	c2a21576-d875-4548-ae68-5e7f85ddf0c7

Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E141197

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Caractéristiques techniques

Downloads

Approval/Certificate/Document of
Conformity

[Application notes – Declaration of Conformity](#)

Engineering Data

[CAD data – STEP](#)

User Documentation

[Instruction sheet](#)

Catalogues

[Catalogues in PDF-format](#)

Brochures

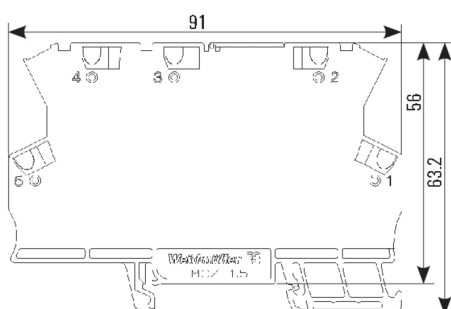
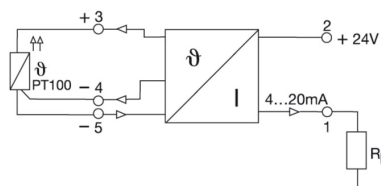
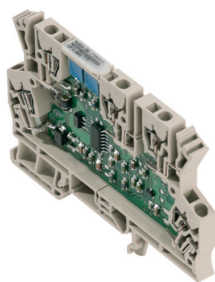
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Dessins

Connection diagram



dimensions