

MCZ PT100/3 CLP -40C...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	2-/3-wire connection technology, Output current loop powered, Tension-clamp connection, Output : 4-20 mA
Order No.	8604430000
Type	MCZ PT100/3 CLP -40C...100C
GTIN (EAN)	4032248264575
Qty.	10 Stück

Erstellungs-Datum May 26, 2023 4:10:11 PM CEST

Katalogstand 12.05.2023 / 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	28.3 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
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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	-40...+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	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	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 **-40...+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 -40C...+100C

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 -40...+100 °C.

Environmental Product Compliance

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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Technische Daten

Downloads

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

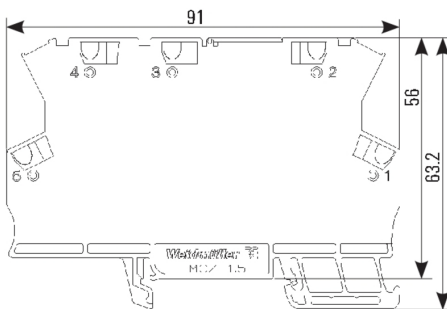
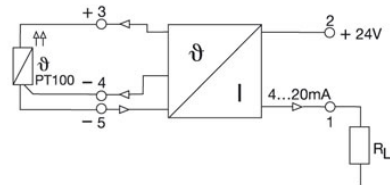
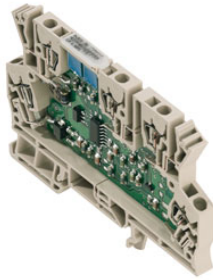
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Zeichnungen

Connection diagram



dimensions