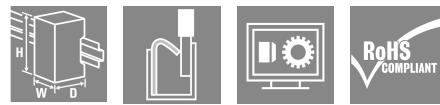


## MCZ PT100/3 CLP -40C... 100C

**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	Temperature converter, 2-/3-wire connection technology, Output current loop powered, Tension-clamp connection, Output : 4-20 mA
Order No.	<a href="#">8604430000</a>
Type	MCZ PT100/3 CLP -40C... 100C
GTIN (EAN)	4032248264575
Qty.	10 items

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## Technical data

## Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate No. (cURus) E141197

## Dimensions and weights

Depth	63.2 mm	Depth (inches)	2.4882 inch
Width	6 mm	Width (inches)	0.2362 inch
Length	91 mm	Length (inches)	3.5827 inch
Net weight	28.3 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
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## 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

## Input

Sensor	PT100 (3 wire)	Number inputs	1
Sensor supply	0.8 mA / 9...30 V DC	Temperature input range	-40...+100 °C

## Output

Number of outputs	1	Load impedance current	≤ 600 Ω
Output current	4...20 mA (current loop) at 9...30V DC		

## General data

Accuracy	Typ.: 0.2 %, máx. 0.5 % v. FSR	Protection degree	IP20
Supply voltage	Output loop powered, max. 30 V/ min. 9 V + (20 mA x RL)	Long-term drift	0
Linearity	Yes	Step response time	10 ms
Mounting rail	TS 35	Temperature coefficient	max. ± 250 ppm/K
Nominal power consumption	2 VA	Configuration	none
Operating altitude	≤ 2000 m		

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## Technical data

## Insulation coordination

EMC standards	EN 61000-6	Surge voltage category	I
Pollution severity	2	Galvanic isolation	Without isolation
Rated voltage	50 V		

## 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 8.0	EC002919	ETIM 9.0	EC002919
ETIM 10.0	EC002919	ECLASS 14.0	27-21-01-29
ECLASS 15.0	27-21-01-29		

## Tender specification sheets

Long specification	<p>PT100 temperature measuring transformer, output-loop powered, 3-wire connection technology</p> <p>RTD measuring transformer in 6 mm width, 4...20 mA output-loop powered without electrical isolation, for transmitting PT100 2-/3-wire signals.</p> <p>Input temperature range -40...+100 °C.</p> <p>Add-on housing for TS35 rail mounting</p> <p>Dimensions: L/W/H 91/6/ 63.2 mm</p> <p>Tension-clamp connection / Nominal cross-section 1.5 mm<sup>2</sup></p> <p>Protection degree: IP 20</p> <p>Input PT100, 2-/3-wire</p> <p>Output 4...20 mA</p> <p>Load resistance</p> <p>Transmission error</p> <p>Auxiliary power via 4...20 mA current loop</p> <p>Ambient temperature range 0°C...+50 °C</p> <p>&lt; 0,2 % v. E.</p>	Short specification	<p>PT100 temperature measuring transformer, output-loop powered, 3-wire connection technology</p> <p>RTD measuring transformer in 6 mm width, 4...20 mA output-loop powered without electrical isolation, for transmitting PT100 2-/3-wire signals.</p> <p>Input temperature range -40...+100 °C.</p>
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**Technical data**

Isolation no electrical  
isolationApprovals cURus,  
CSA  
TypeMCZ PT100/3 CLP  
-40C...+100C

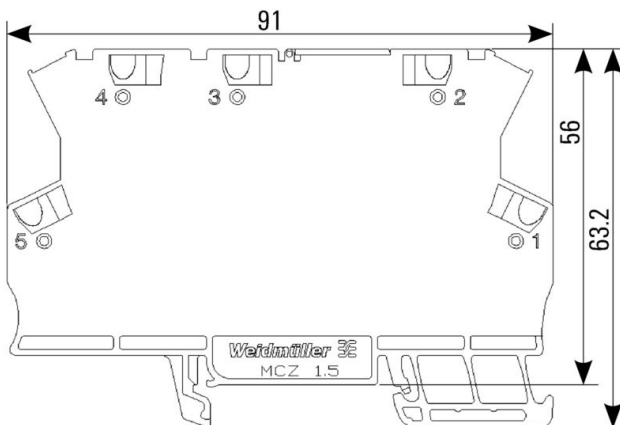
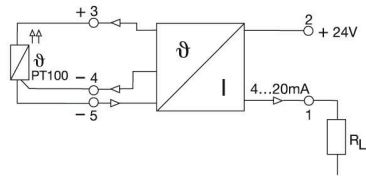
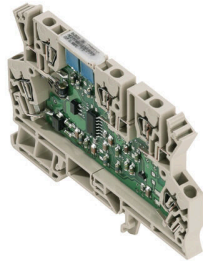
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Drawings

Connection diagram



dimensions

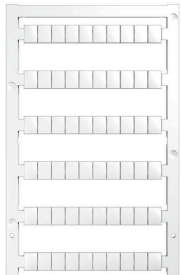
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## Accessories

### Blank



WS markers are the perfect match for the W-series connectors. Thanks to their system compatibility, the WS tags can also be used with the I-series and the Z-series. The large marking surfaces do not only permit long character strings but also multi-line text. WS markers are ideal for labels with long, customised character strings. Thanks to the proven MultiCard format, printing with PrintJet CONNECT oder/or Plotter is possible.

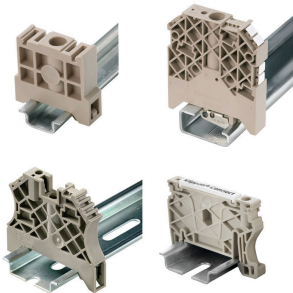
- Can be fitted in strips or individually
- Markers in proven MultiCard format

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

### General ordering data

Type	WS 8/6 PLUS MC NE WS	Version	
Order No.	<a href="#">1951880000</a>	WS, Terminal marker, 8 x 6 mm, Pitch in mm (P): 6.00 Weidmueller,	
GTIN (EAN)	4032248632114	white	
Qty.	600 ST		

### End bracket



Weidmüller's range of products includes end brackets that guarantee a permanent, reliable mounting on the terminal rail and prevent sliding. Versions with and without screws are available. The end brackets include marking options, also for group markers, and also a test plug holder.

### General ordering data

Type	EW 35	Version	
Order No.	<a href="#">0383560000</a>	End bracket, beige, TS 35, V-2, Wemid, Width: 8.5 mm, 100 °C	
GTIN (EAN)	4008190181314		
Qty.	50 ST		

### AP MCZ 1.5 - End plate



Open miniature housing in modular terminal format with five tension clamp connections. A transparent hinged top plate can be used for labelling and provides access to potentiometer and status displays. Plug-in cross-connectors can be used to interconnect the three top connections. A cover plate for closing off the housing is also available.

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## Accessories

### General ordering data

Type	AP MCZ1.5 1674	Version	
Order No.	<a href="#">8389030000</a>	End plate, OMNIMATE Housing - TERMINALBOX grey-beige, End plate, Width: 1.5 mm	
GTIN (EAN)	4008190386849		
Qty.	50 ST		

### Cross-connections



The distribution or multiplication of a potential to adjoining terminal blocks is realized via a cross-connection. Additional wiring effort can be easily avoided. Even if the poles are broken out, contact reliability in the terminal blocks is still ensured. Our portfolio offers pluggable and screwable cross-connection systems for modular terminal blocks.

### General ordering data

Type	ZQV 4N/2	Version	
Order No.	<a href="#">1527930000</a>	Cross-connector (terminal), Plugged, orange, 32 A, Number of poles: 2, Pitch in mm (P): 6.10, Insulated: Yes, Width: 9.9 mm	
GTIN (EAN)	4050118332766		
Qty.	60 ST		
Type	ZQV 4N/3	Version	
Order No.	<a href="#">1527940000</a>	Cross-connector (terminal), Plugged, orange, 32 A, Number of poles: 3, Pitch in mm (P): 6.10, Insulated: Yes, Width: 16 mm	
GTIN (EAN)	4050118332865		
Qty.	60 ST		
Type	ZQV 4N/4	Version	
Order No.	<a href="#">1527970000</a>	Cross-connector (terminal), Plugged, orange, 32 A, Number of poles: 4, Pitch in mm (P): 6.10, Insulated: Yes, Width: 22.1 mm	
GTIN (EAN)	4050118332889		
Qty.	60 ST		