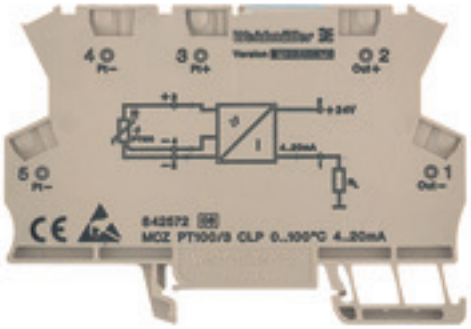
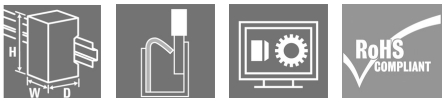
MCZ PT100/3 CLP 0...100C

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 pc(s).

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Technical data

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

Probability of failure

SIL in compliance with IEC 61508	None	MTTF	1,066 a

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	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 mm²
Clamping range, min.	0.5 mm²	Clamping range, max.	1.5 mm²
Wire connection cross section AWG, min.	AWG 26	Wire connection cross section AWG, max.	AWG 16
Wire cross-section, solid, min.	0.5 mm²	Wire cross-section, solid, max.	1.5 mm²
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 mm²	Wire connection cross section, finely stranded, max.	1.5 mm²
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 mm²	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	1.5 mm²
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 mm²	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	1.5 mm²

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

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Technical data

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 mm^2 Protection degree: IP 20 Input PT100, 2-/3-wire-Output 4...20 mALoad resistance Transmission error Auxiliary power via 4...20 mA current loopAmbient temperature range 0°C...+50 °C< 0,2 % v. E. Isolation no electrical isolationApprovals cURus, CSA **TypeMCZ 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

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

Creation date May 1, 2024 7:54:41 PM CEST

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Technical data

Downloads

Approval/Certificate/Document of Conformity	Application notes – Declaration of Conformity
Engineering Data	CAD data – STEP
Engineering Data	Zuken E3.S
User Documentation	Instruction sheet
Catalogues	Catalogues in PDF-format
Brochures	

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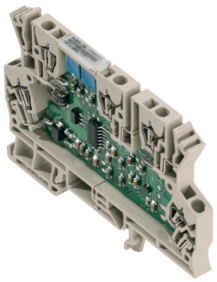
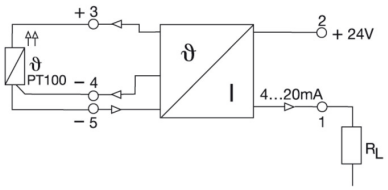
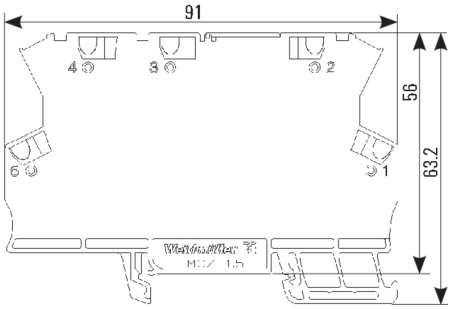
Drawings



Connection diagram





dimensions

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Accessories

SAK-Series

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.	0383560000	End bracket, Wemid, beige, Rail: TS 35, when screwed in
GTIN (EAN)	4008190181314	
Qty.	50 pc(s).	

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.

General ordering data

Type	AP MCZ1.5 1674	Version
Order No.	8389030000	Small housing, OMNIMATE Housing - TERMINALBOX grey-beige, End
GTIN (EAN)	4008190386849	plate, Width: 1.5 mm
Qty.	50 pc(s).	

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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.	1951880000	WS, Terminal marker, 8 x 6 mm, Pitch in mm (P): 6.00 Weidmueller,
GTIN (EAN)	4032248632114	white
Qty.	600 pc(s).	

4 mm²

The plug-in cross-connections feature easy handling and quick installation. This saves a great deal of time during installation in comparison with screwed solutions.

General ordering data

Type	ZQV 4N/3 GE	Version
Order No.	1762630000	W-Series, Cross-connector, 32 A
GTIN (EAN)	4032248169788	
Qty.	60 pc(s).	
Type	ZQV 4N/2 GE	Version
Order No.	1758250000	W-Series, Cross-connector, 32 A
GTIN (EAN)	4032248169795	
Qty.	60 pc(s).	
Type	ZQV 4N/4 GE	Version
Order No.	1762620000	W-Series, Cross-connector, 32 A
GTIN (EAN)	4032248169771	
Qty.	60 pc(s).	