MCZ SC 0-10V

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	Limit value monitoring, Input : 0-10 V, Output 2 x transistor
Order No.	8260280000
Type	MCZ SC 0-10V
GTIN (EAN)	4008190985417
Qty.	10 items

MCZ SC 0-10V

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
Height	15 mm	Height (inches)	0.5906 inch
Width	6 mm	Width (inches)	0.2362 inch
Length	91 mm	Length (inches)	3.5827 inch
Net weight	29.6 g		

Temperatures

Storage temperature	-25 °C...60 °C	Operating temperature	-20 °C...60 °C
Humidity at operating temperature	0...95 % (no condensation)		

Probability of failure

SIL in compliance with IEC 61508	None	MTTF	681 a

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c, 7a, 7cI
REACH SVHC	Lead 7439-92-1
SCIP	35d83707-6a3b-45b5-b9f8-6ba8184c863e

Input

Input current	0.5...20 mA	Input resistance, current	50 Ω
Voltage drop	1 V		

Output

Number of outputs	2	Cut-off frequency (-3 dB)	100 Hz

General data

Protection degree	IP20	Supply voltage	24 V DC ± 20 %
Step response time	<250 µs (switching threshold at 90% of max. input signal; RI ≤ 1 kΩ)	Current consumption	15 mA
Mounting rail	TS 35	Temperature coefficient	± 250 ppm/K, 350 ppm/K
Nominal power consumption	1.5 VA	Configuration	Potentiometer

Insulation coordination

EMC standards	EN 55011, EN 61000-6	Galvanic isolation	between input / output / supply / relay

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Technical data

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

Classifications

| ETIM 8.0	EC002654	ETIM 9.0	EC002654
ETIM 10.0	EC002654	ECLASS 14.0	27-21-01-22
ECLASS 15.0	27-21-01-22		

Tender specification sheets

Long specification	Trip amplifier for monitoring a 0…10 V standard signal with two switching outputs Trip amplifier in 6 mm width for analogue 0…10 V standard signals with two PNP-transistor switch outputs for monitoring an upper and lower threshold (adjustable via potentiometer). DIP switches can be used to select a range of 300 mV to 10 V, 30 mV to 1 V, and 10 mV to 100 mV on the input side.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 0…10 V ranges 300 mV…10 V / 30 mV…1 V / 10 mV…100 mV Output Double switching output PNP/ 50 mA per channel adjustable via potentiometer Switching hysteresis 1 % of input Step response time < 250 us (10…90 %) Temperature coefficient < 250 ppm K Auxiliary power 24 V DC +/- 20 % Ambient temperature range 0°C…+50 °C Isolation 1.5 kV Approvals cURus, CSA	Short specification	Trip amplifier for monitoring a 0…10 V standard signal with two switching outputs Trip amplifier in 6 mm width for analogue 0…10 V standard signals with two PNP-transistor switch outputs for monitoring an upper and lower threshold (adjustable via potentiometer). DIP switches can be used to select a range of 300 mV to 10 V, 30 mV to 1 V, and 10 mV to 100 mV on the input side.

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Technical data

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Drawings

Connection diagram
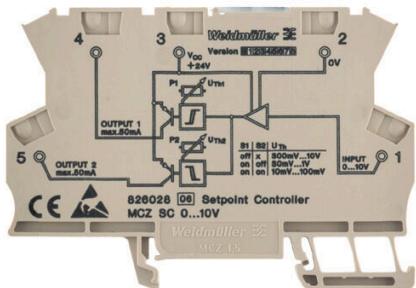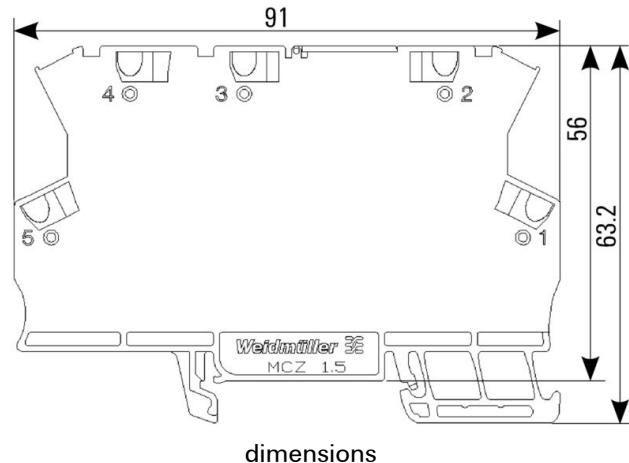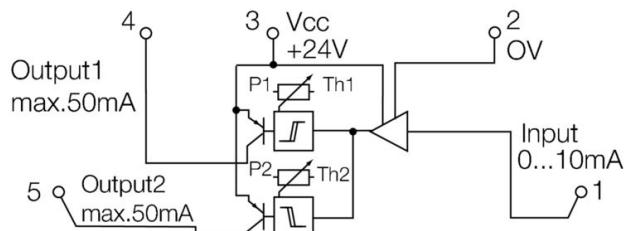
dimensions

Accessories

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.	0383560000	End bracket, beige, TS 35, V-2, Wemid, Width: 8.5 mm, 100 °C	
GTIN (EAN)	4008190181314		
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/10 GE	Version
Order No.	1758260000	W-Series, Cross-connector, 32 A
GTIN (EAN)	4032248169764	
Qty.	20 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.

General ordering data

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

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Accessories

Blank
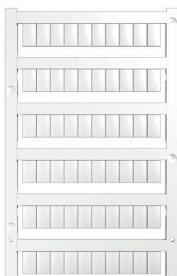
WS markers are the perfect match for the W-series connectors. Thanks to their system compatibility, the WS tags can also be used with the I-series and the Z-series. The large marking surfaces do not only permit long character strings but also multi-line text.
WS markers are ideal for labels with long, 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 10/6 MC NE WS	Version	
Order No.	1828450000	WS, Terminal marker, 10 x 6 mm, Pitch in mm (P): 6.00 Weidmueller,	
GTIN (EAN)	4032248350513	Allen-Bradley, white	
Qty.	600 ST		

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General ordering data

Type	ZQV 4N/2	Version	
Order No.	1527930000	Cross-connector (terminal), Plugged, orange, 32 A, Number of poles:	
GTIN (EAN)	4050118332766	2, Pitch in mm (P): 6.10, Insulated: Yes, Width: 9.9 mm	
Qty.	60 ST		
Type	ZQV 4N/3	Version	
Order No.	1527940000	Cross-connector (terminal), Plugged, orange, 32 A, Number of poles:	
GTIN (EAN)	4050118332865	3, Pitch in mm (P): 6.10, Insulated: Yes, Width: 16 mm	
Qty.	60 ST		
Type	ZQV 4N/4	Version	
Order No.	1527970000	Cross-connector (terminal), Plugged, orange, 32 A, Number of poles:	
GTIN (EAN)	4050118332889	4, Pitch in mm (P): 6.10, Insulated: Yes, Width: 22.1 mm	
Qty.	60 ST		
Type	ZQV 4N/5	Version	
Order No.	1527980000	Cross-connector (terminal), Plugged, orange, 32 A, Number of poles:	
GTIN (EAN)	4050118332759	5, Pitch in mm (P): 6.10, Insulated: Yes, Width: 28.2 mm	
Qty.	60 ST		