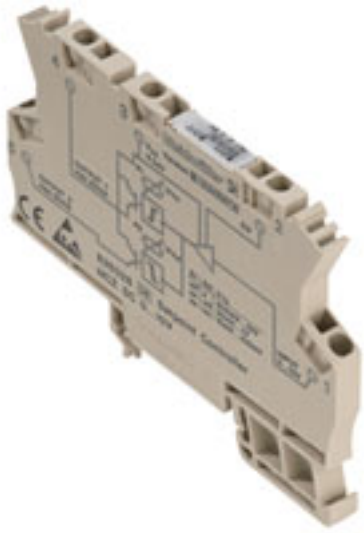
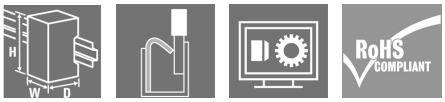
MCZ SC 0-20MA

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	Limit value monitoring
Order No.	8227350000
Type	MCZ SC 0-20MA
GTIN (EAN)	4008190193799
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 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

Input

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

Output

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

General data

Configuration	Potentiometer	Current consumption	15 mA
Galvanic isolation	Without isolation, between input / output / supply	Rail	TS 35
Step response time	<250 µs (switching threshold at 90% of max. input signal; R_I ≤ 1 kΩ)	Temperature coefficient	± 250 ppm/K, 350 ppm/K
Voltage supply	24 V DC ± 20 %		

Insulation coordination

EMC standards	EN 55011, EN 61000-6	Galvanic isolation	Without isolation, between input / output / supply

Connection data

Type of connection	TOP connection, Screw connection	Clamping range, rated connection	1.5 mm²
Clamping range, min.	0.5 mm²	Clamping range, max.	1.5 mm²

Classifications

ETIM 6.0	EC002654	ETIM 7.0	EC002654
ETIM 8.0	EC002654	ETIM 9.0	EC002654
ECLASS 9.0	27-21-01-22	ECLASS 9.1	27-21-01-22
ECLASS 10.0	27-21-01-22	ECLASS 11.0	27-21-01-22
ECLASS 12.0	27-21-01-22	ECLASS 13.0	27-21-01-22

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Technical data

Tender specification sheets

Long specification	**Trip amplifier for monitoring a 0...20 mA standard signal with two switching outputs Trip amplifier in 6 mm width for analogue 0...20 mA standard signals with two PNP-transistor switch outputs for monitoring an upper and lower threshold (adjustable via potentiometer). Dimensions: L/W/H 91/ 6/ 63.2 mm Tension-clamp connection / Nominal cross-section 1.5 mm^2 Protection degree: IP 20 Input 0.5...20 mA Output Double switching output PNP/ 50 mA per channel Adjustable via potentiometer Switching hysteresis 1 % of input Step response time (10...90 %) < 250 us Temperature coefficient < 250 ppm K Auxiliary power 24 V DC +/- 20 % Ambient temperature range 0°C...+50 °C Approvals cULus, CSA Type MCZ SC 0-20MA**
Short specification	**Trip amplifier for monitoring a 0...20 mA standard signal with two switching outputs Trip amplifier in 6 mm width for analogue 0...20 mA standard signals with two PNP-transistor switch outputs for monitoring an upper and lower threshold (adjustable via potentiometer).**

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
SCIP	35d83707-6a3b-45b5-b9f8-6ba8184c863e

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Technical data

Approvals

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

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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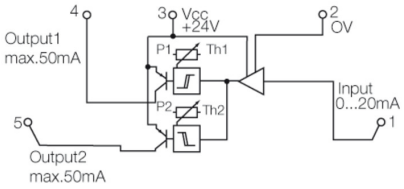
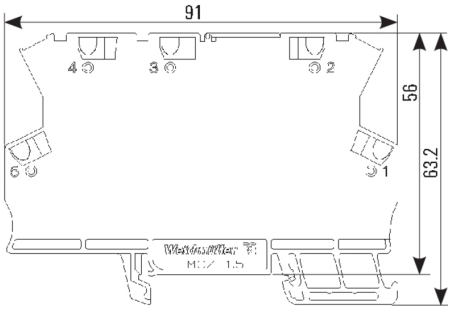
Drawings

Connection diagram





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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 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 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).	

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Accessories

Type	ZQV 4N/10 GE	Version
Order No.	1758260000	W-Series, Cross-connector, 32 A
GTIN (EAN)	4032248169764	
Qty.	20 pc(s).	