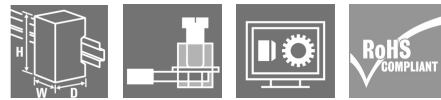
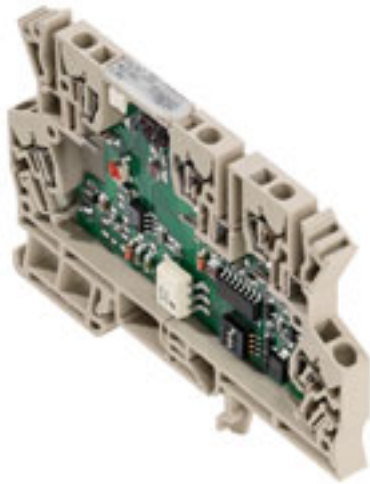


## MCZ VFC 0-10V

**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	DC/f transformer, Input : 0-10 V, Output frequency: 0...1/ 4/ 8/ 16 kHz
Order No.	<a href="#">8461470000</a>
Type	MCZ VFC 0-10V
GTIN (EAN)	4032248037773
Qty.	10 Stück

Erstellungs-Datum June 1, 2023 11:39:08 AM CEST

Katalogstand 26.05.2023 / 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	28.4 g		

### Temperatures

Storage temperature	-20 °C...85 °C	Operating temperature	0 °C...50 °C
Operating temperature, min.	0 °C	Operating temperature, max.	50 °C

### Probability of failure

SIL in compliance with IEC 61508	None
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### Input

Input resistance, voltage	100 kΩ	Input voltage	0...10 V
Number of inputs	1		

### Output

Load impedance current	≤ 600 Ω	Number of outputs	1
Output current	max. 20 mA	Output frequency	0...1/ 4/ 8/ 16 kHz
Output level	PNP, Ub-0.7 V		

### General data

Accuracy	0.2 % v. FSR	Configuration	DIP switch
Current consumption	14 mA without load	Current-carrying capacity of cross-connect.	≤ 20 A
Galvanic isolation	between input/output/supply	Input/Output	DC/ f
Long-term drift	0	Rail	TS 35
Temperature coefficient	≤ 250 ppm/K	Voltage supply	24 V DC ± 10 %

### Insulation coordination

Clearance and creepage distances	≥ 1.5 mm	EMC standards	EN 55011, EN 61000-6
Galvanic isolation	between input/output/supply	Impulse withstand voltage	1.5 kV
Insulation voltage	1 kV DC	Insulation voltage input or output/rail	4 kV <sub>eff</sub> / 1 min.
Pollution severity	2	Rated voltage	100 V
Surge voltage category	III	Test voltage	300 v

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## Technische Daten

### 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 6.0	EC002918	ETIM 7.0	EC002918
ETIM 8.0	EC002918	ECLASS 9.0	27-21-01-28
ECLASS 9.1	27-21-01-28	ECLASS 10.0	27-21-01-28
ECLASS 11.0	27-21-01-28	ECLASS 12.0	27-21-01-28

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**Technische Daten**

**Tender specification sheets**

Long specification

Short specification

**DC/f converter for converting a 0...10 V standard signal to 0...1/4/ 8/ 16 kHz, configured with DIP switches**  
**DC/f converter in 6 mm width with external power supply for transmitting and converting a 0...10 V standard signal into a proportional 0...1/ 4/ 8/ 16 kHz rectangular frequency.**  
**The input and output circuits are electrically isolated.**

**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<sup>2</sup>**  
**Protection degree: IP 20**  
**Input**  
**0...10 V**  
**Output**  
**0...1 kHz/ 4 kHz/ 8 kHz/ 16 kHz**

**PNP: UB - 0.7V / max. 20 mA**  
**Transmission error < 0,2 % v. E.**  
**Temperature coefficient < 250 ppm K**  
**Auxiliary power 24 V DC +/- 10 %**  
**Ambient temperature range 0°C...+50 °C**  
**Isolation 1.5 kV**  
**Rated voltage 100 V**  
**Overvoltage category III**  
**pollution degree 2**

**Type**  
**VFC 0-10V**

**MCZ**

**DC/f converter for converting a 0...10 V standard signal to 0...1/4/ 8/ 16 kHz, configured with DIP switches**  
**DC/f converter in 6 mm width with external power supply, for transmitting and converting a 0...10 V standard signals into a proportional 0...1/ 4/ 8/ 16 kHz rectangular frequency.**  
**The input and output circuits are electrically isolated.**

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## Technische Daten

### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
SCIP	c2a21576-d875-4548-ae68-5e7f85ddf0c7

### Approvals

Approvals



ROHS	Conform
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### Downloads

Approval/Certificate/Document of Conformity	<a href="#">Declaration of Conformity</a>
Engineering Data	<a href="#">CAD data – STEP</a>
Engineering Data	<a href="#">WSCAD, EPLAN</a>
User Documentation	<a href="#">Instruction sheet</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>
Brochures	

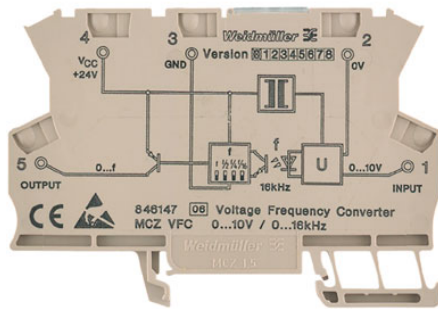
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**Zeichnungen**

**Connection diagram**



**Dimensioned drawing**

