

2906243

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MACX MCR voltage transducers for DC voltages of 0... (+/-) 20 V DC to 0.. .(+/-) 660 V DC, output signal (+/-) 10 V/ (+/-)20 mA

Your advantages

- · Adjustable voltage ranges
- · Bidirectional output signals
- · 3-way isolation
- ZERO/SPAN adjustment ±20 %
- Tool-free parameterization of measured values
- Teach-in configuration of the measured value range

Commercial data

Item number	2906243
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C445
Product key	CMMB21
Catalog page	Page 238 (C-5-2019)
GTIN	4055626050935
Weight per piece (including packing)	218.4 g
Weight per piece (excluding packing)	206.8 g
Customs tariff number	85437090
Country of origin	DE



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Technical data

Product properties

Product type	Voltage transducer
Electrical properties	
Alignment span	± 20 %
Alignment zero	± 20 %
Maximum power dissipation for nominal condition	1.2 W
Protective circuit	Surge protection; 33 V suppressor diode
Step response (10-90%)	< 16 ms
Maximum temperature coefficient	< 0.015 %/K
Maximum transmission error	< 1 % (of measuring range end value)
Electrical isolation	
Pollution degree	2

Electrical isolation Measuring circuit to supply circuit and output IEC 61010-2-030

Standards/regulations	IEC 61010-2-030
Test voltage	5.3 kV AC (50 Hz, 60 s)
Measuring category	II (1000 V)
	III (600 V)
	IV (300 V)
Insulation	Reinforced insulation

Electrical isolation Supply circuit to output circuit IEC 61010-1

Standards/regulations	IEC 61010-1
Test voltage	2.2 kV AC (50 Hz, 60 s)
Overvoltage category	III (300 V)
	IV (150 V)
Insulation	Basic insulation

Supply

Nominal supply voltage	24 V DC (-20 % +25 %)
Supply voltage range	19.2 V DC 30 V DC
Max. current consumption	< 60 mA

Input data

Measurement

Configurable/programmable	Yes
Input voltage range	-550 V DC 550 V DC
Maximum input voltage	± 660 V DC
Input resistance of voltage input	5500 kΩ
Impulse form	DC voltage



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Input voltage range	-370 V DC 370 V DC
Input resistance of voltage input	3700 kΩ
input resistance of voltage input	0100 K12
Measurement	
Input voltage range	-250 V DC 250 V DC
Input resistance of voltage input	2500 kΩ
Measurement	
Input voltage range	-170 V DC 170 V DC
Input resistance of voltage input	1700 kΩ
Measurement	
Input voltage range	-120 V DC 120 V DC
Input resistance of voltage input	1200 kΩ
Measurement	
Input voltage range	-80 V DC 80 V DC
Input resistance of voltage input	800 kΩ
Measurement	
Input voltage range	-54 V DC 54 V DC
Input resistance of voltage input	800 kΩ
Measurement	
Input voltage range	-36 V DC 36 V DC
Input resistance of voltage input	800 kΩ
Measurement	
Input voltage range	-24 V DC 24 V DC
mpat voltage range	

Output data

Signal:	Voltage
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Voltage output signal	-10 V 10 V
	2 V 10 V
Max. voltage output signal	≤ 11 V
Load/output load voltage output	> 10 kΩ
Ripple	50 mV

Signal: Current

Current output signal	-20 mA 20 mA
	4 mA 20 mA
Max. current output signal	≤ 22 mA
Load/output load current output	< 500 Ω
Max. capacitive load	< 1000 pF
Max. inductive load	< 1 mH



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Connection data

Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section rigid	0.2 mm² 1.5 mm²
Conductor cross section flexible	0.2 mm² 1.5 mm²
Conductor cross section AWG	24 16

Dimensions

Width	22.5 mm
Height	118 mm
Depth	114 mm

Material specifications

Color	gray (RAL 7042)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C 60 °C
Ambient temperature (storage/transport)	-40 °C 85 °C (non-condensing)
Altitude	≤ 2000 m
Permissible humidity (operation)	10 % 95 % (non-condensing)

Approvals

CE

Certificate	CE-compliant
UKCA	
Certificate	UKCA-compliant
UL, USA/Canada	
Identification	UL 61010 Listed

EMC data

Electromagnetic compatibility	Conformance with EMC directive
Low Voltage Directive	Conformance with Low Voltage Directive
Noise immunity	EN 61000-6-2
Note	When being exposed to interference, there may be minimal deviations.
Noise emission	
Standards/regulations	EN 61000-6-4

Mounting

Mounting type	DIN rail mounting



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Assembly note	can be aligned with spacing = 10 mm
Mounting position	any

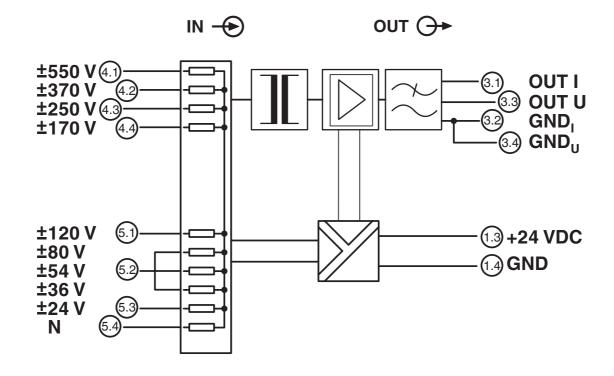


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Drawings

Block diagram





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Approvals

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EAC

Approval ID: RU*DE.*08.B.01852-19



UL Listed

Approval ID: E330267



cUL Listed

Approval ID: FILE E 330267

cULus Listed



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Classifications

ECLASS

UNSPSC 21.0

	ECLASS-11.0	27210125
	ECLASS-13.0	27210125
	ECLASS-12.0	27210125
ETIM		
	ETIM 9.0	EC002477
UN	SPSC	

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Environmental product compliance

EU RoHS

Yes
7(a), 7(c)-l
EFUP-50
An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
Lead(CAS: 7439-92-1)
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