

## Voltage measuring transducers - MACX MCR-VDC - 2906242

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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

### Why buy this product

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



### Key Commercial Data

Packing unit	1 STK
GTIN	 4 055626 050928
GTIN	4055626050928
Weight per Piece (excluding packing)	197.700 g
Custom tariff number	85437090
Country of origin	Germany

### Technical data

#### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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#### Dimensions

Width	22.5 mm
Height	99 mm
Depth	114.5 mm

#### Ambient conditions

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## Technical data

### Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C (non-condensing)
Maximum altitude	≤ 2000 m
Degree of protection	IP20

### Input data

Input voltage range	-550 V DC ... 550 V DC
Input resistance	5500 kΩ
Input voltage range	-370 V DC ... 370 V DC
Input resistance	3700 kΩ
Input voltage range	-170 V DC ... 170 V DC
Input resistance	1700 kΩ
Input voltage range	-120 V DC ... 120 V DC
Input resistance	1200 kΩ
Input voltage range	-80 V DC ... 80 V DC
Input resistance	800 kΩ
Input voltage range	-54 V DC ... 54 V DC
Input resistance	540 kΩ
Input voltage range	-36 V DC ... 36 V DC
Input resistance	360 kΩ
Nom. voltage	± 660 V DC

### Output data

Output name	Voltage output
Voltage output signal	-10 V ... 10 V
Max. output voltage	≤ 11 V
Load/output load voltage output	> 10 kΩ
Ripple	50 mV
Output name	Current output
Current output signal	-20 mA ... 20 mA
Max. output current	≤ 22 mA
Load/output load current output	< 500 Ω

### Power supply

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

### Connection data

Connection method	Pluggable screw connection
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section AWG min.	24

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## Technical data

### Connection data

Conductor cross section AWG max.	14
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
Stripping length	8 mm
Screw thread	M3
Connection method	Screw connection

### General

Maximum transmission error	< 1 % (of measuring range end value)
Maximum temperature coefficient	< 0.015 %/K
Alignment zero	± 20 %
Alignment span	± 20 %
Step response (10-90%)	< 16 ms
Test voltage	5.3 kV AC (50 Hz, 1 min.)
Overvoltage category	III
Degree of pollution	2
Rated insulation voltage	300 V DC
Standards/regulations	IEC 61010-1
	IEC 61010-2-30
Electromagnetic compatibility	Conformance with EMC directive
Noise emission	EN 61000-6-4
Noise immunity	EN 61000-6-2 When being exposed to interference, there may be minimal deviations.
Color	gray
Mounting position	any
Assembly instructions	Can be aligned with spacing = 10 mm
Conformance	CE-compliant
UL, USA/Canada	UL 61010 Listed

### Standards and Regulations

Electromagnetic compatibility	Conformance with EMC directive
Noise emission	EN 61000-6-4
Standards/regulations	IEC 61010-1
	IEC 61010-2-30
Low Voltage Directive	Conformance with Low Voltage Directive
Conformance	CE-compliant
UL, USA/Canada	UL 61010 Listed

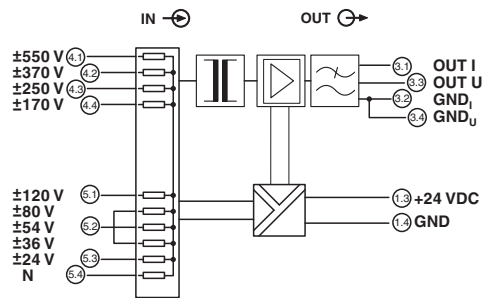
### Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

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## Drawings

Block diagram



## Classifications

### eCl@ss

eCl@ss 5.0	27210190
eCl@ss 5.1	27210190
eCl@ss 6.0	27210125
eCl@ss 7.0	27210125
eCl@ss 8.0	27210125

### ETIM

ETIM 4.0	EC002477
ETIM 5.0	EC002477
ETIM 6.0	EC002477

## Approvals

### Approvals

#### Approvals

UL Listed / cUL Listed / cULus Listed

#### Ex Approvals

### Approval details

UL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 330267
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### Approvals

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