

Voltage measuring transducers - MACX MCR-VDC-PT - 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 $\pm 20\%$
- ✓ Tool-free parameterization of measured values
- ✓ Teach-in configuration of the measured value range



Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 050935
GTIN	4055626050935

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	118 mm
Depth	114 mm

Ambient conditions

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

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Ambient conditions

Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Degree of protection	IP20
Noise immunity	EN 61000-6-2 When being exposed to interference, there may be minimal deviations.

Input data

Input voltage range	-550 V DC ... 550 V DC
Input resistance	5500 k Ω
Input voltage range	-370 V DC ... 370 V DC
Input resistance	3700 k Ω
Input voltage range	-250 V DC ... 250 V DC
Input resistance	2500 k Ω
Input voltage range	-170 V DC ... 170 V DC
Input resistance	1700 k Ω
Input voltage range	-120 V DC ... 120 V DC
Input resistance	1200 k Ω
Input voltage range	-80 V DC ... 80 V DC
Input resistance	800 k Ω
Input voltage range	-54 V DC ... 54 V DC
Input resistance	800 k Ω
Input voltage range	-36 V DC ... 36 V DC
Input resistance	800 k Ω
Input voltage range	-24 V DC ... 24 V DC
Input resistance	240 k Ω
Nom. voltage	$\pm$ 660 V DC

Output data

Output name	Voltage output
Voltage output signal	-10 V ... 10 V
Max. output voltage	$\leq$ 11 V
Load/output load voltage output	$>$ 10 k Ω
Ripple	50 mV
Output name	Current output
Current output signal	-20 mA ... 20 mA
Max. output current	$\leq$ 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

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Connection data

Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section solid	0.2 mm ² ... 2.5 mm ²
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross section AWG	24 ... 14
pluggable	yes

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, 60 s)
Protective circuit	Surge protection 33 V suppressor diode
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.
Mounting position	any
Assembly instructions	Can be aligned with spacing = 10 mm

Standards and Regulations

Low Voltage Directive	Conformance with Low Voltage Directive
Electromagnetic compatibility	Conformance with EMC directive
Noise emission	EN 61000-6-4
Standards/regulations	IEC 61010-1
	IEC 61010-2-030
Pollution degree	2

Conformance/approvals

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

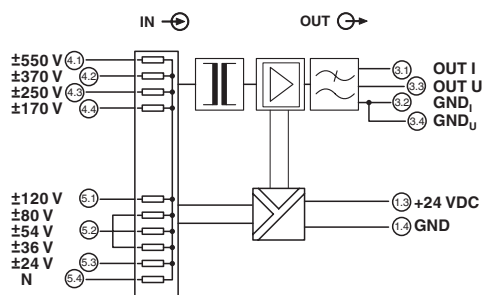
Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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Drawings

Block diagram



Classifications

eCl@ss

eCl@ss 10.0.1	27210125
eCl@ss 11.0	27210125
eCl@ss 4.0	27271100
eCl@ss 5.0	27200300
eCl@ss 5.1	27200300
eCl@ss 6.0	27210100
eCl@ss 7.0	27210125
eCl@ss 9.0	27210125

ETIM

ETIM 4.0	EC002477
ETIM 6.0	EC002477
ETIM 7.0	EC002477

UNSPSC

UNSPSC 18.0	39121008
UNSPSC 19.0	39121008
UNSPSC 20.0	39121008
UNSPSC 21.0	39121000

Approvals

Approvals

Approvals

UL Listed / cUL Listed / EAC / cULus Listed

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Approvals

Ex Approvals

Approval details

UL Listed



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm> FILE E 330267

cUL Listed



<http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm> FILE E 330267

EAC



RU*DE.*08.B.01852-19

cULus Listed



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