

Voltage measuring transducers - MACX MCR-VAC - 2906239

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



MACX MCR voltage transducer, for AC voltages from 0 V ... 20 V AC to 0 ... 660 V AC, output signal: 0 V ... 10 V/0(4) ... 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	
GTIN	4055626051000

Technical data

Note

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

Dimensions

Width	22.5 mm
Height	113 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

Voltage measuring transducers - MACX MCR-VAC - 2906239

Technical data

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	0 V AC ... 550 V AC
Input resistance	5500 k Ω
Input voltage range	0 V AC ... 370 V AC
Input resistance	3700 k Ω
Input voltage range	0 V AC ... 250 V AC
Input resistance	2500 k Ω
Input voltage range	0 V AC ... 170 V AC
Input resistance	1700 k Ω
Input voltage range	0 V AC ... 120 V AC
Input resistance	1200 k Ω
Input voltage range	0 V AC ... 80 V AC
Input resistance	800 k Ω
Input voltage range	0 V AC ... 54 V AC
Input resistance	800 k Ω
Input voltage range	0 V AC ... 36 V AC
Input resistance	800 k Ω
Input voltage range	0 V AC ... 24 V AC
Input resistance	240 k Ω
Nom. voltage	+ 660 V AC

Output data

Output name	Voltage output
Voltage output signal	0 V ... 10 V
	2 V ... 10 V
Max. output voltage	≤ 11 V
Load/output load voltage output	> 10 k Ω
Ripple	50 mV
Output name	Current output
Current output signal	0 mA ... 20 mA
	4 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	< 45 mA

Voltage measuring transducers - MACX MCR-VAC - 2906239

Technical data

Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
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

General

Maximum transmission error	< 1 % (from a measuring range final value, 45 ... 65 Hz)
	< 1.3 % (from a measuring range final value, 65 ... 405 Hz)
Maximum temperature coefficient	< 0.015 %/K
Frequency measuring range	45 Hz ... 405 Hz
Alignment zero	± 20 %
Alignment span	± 20 %
Step response (10-90%)	< 180 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
Frequency range	45 Hz ... 405 Hz
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
------------	----------------

Voltage measuring transducers - MACX MCR-VAC - 2906239

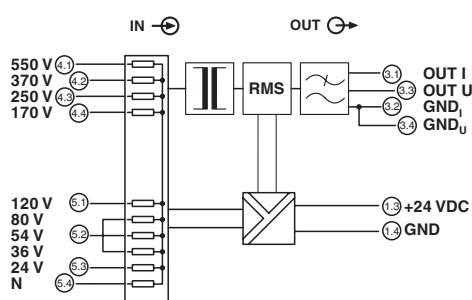
Technical data

Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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

Voltage measuring transducers - MACX MCR-VAC - 2906239

Approvals

Approvals

Approvals

UL Listed / cUL Listed / EAC / cULus Listed

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



Phoenix Contact 2022 © - all rights reserved
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg
Germany
Tel. +49 5235 300
Fax +49 5235 3 41200
<http://www.phoenixcontact.com>

单击下面可查看定价，库存，交付和生命周期等信息

[>>Phoenix Contact\(菲尼克斯\)](#)