



مبدل صنعتی فونیکس

مدل MACX MCR-SL-CAC-5-1



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Product description

The MACX MCR-SL-CAC-5-I(-UP) current measuring transducers convert sinusoidal alternating currents of 1 A or 5 A into standard analog signals 0...20 mA or 4...20 mA. The DIP switches, which can be accessed on the upper side of the housing, can be used to configure the input and output current.

The MACX MCR-SL-CAC-5-I current transducer contains a supply voltage range of 19.2 V DC to 30 V DC.

The MACX MCR-SL-CAC-5-I current transducer contains a long range version with a supply voltage range of 19.2 V AC/DC to 253 V AC/DC.

Your advantages

- Input/output can be configured via DIP switches

Commercial data

Item number	2810625
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	CMMA21
Catalog page	Page 234 (C-5-2019)
GTIN	4046356153782
Weight per piece (including packing)	218.2 g
Weight per piece (excluding packing)	181.6 g
Customs tariff number	85437090
Country of origin	DE



Technical data

Notes

Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
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Product properties

Product type	Current measuring transducer
Insulation characteristics	
Overvoltage category	III
Pollution degree	2

Electrical properties

Maximum power dissipation for nominal condition	< 0.9 W (24 V DC) < 3.4 W (230 V AC)
Protective circuit	Surge protection; 35 V suppressor diode
Step response (10-90%)	≤ 300 ms 200 ms
Maximum temperature coefficient	< 0.02 %/K
Temperature coefficient, typical	< 0.015 %/K
Maximum transmission error	≤ 0.5 % (of nominal range value under nominal conditions)
Reverse polarity protection	yes
Rated insulation voltage	300 V AC (to earth)

Electrical isolation Input/output

Test voltage	4 kV AC (50 Hz, 60 s)
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Electrical isolation Output/supply

Test voltage	2 kV AC (50 Hz, 60 s)
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Supply

Supply voltage range	19.2 V AC/DC ... 253 V AC/DC
Max. current consumption	< 33 mA (24 V DC)
Power consumption	< 0.8 W (24 V DC)

Input data

Measurement

Configurable/programmable	Via DIP switches
Input current range	0 A AC ... 1 A AC (configurable) 0 A AC ... 5 A AC (configurable)
Voltage input signal	≤ 300 V AC
Input impedance	< 50 mΩ
Overload capacity	2 × I _N (continuous)



Surge strength	20 x I _N (1 s)
Nominal frequency f _N	50 Hz
Frequency measuring range	45 Hz ... 65 Hz
Curve type	Sine

Output data

Signal: Current

Configurable/programmable	Via DIP switches
Non-load voltage	15 V
Current output signal	0 mA ... 20 mA (configurable) 4 mA ... 20 mA (configurable)
Max. current output signal	25 mA
Load/output load current output	< 500 Ω (20 mA)
Ripple	< 10 mV _{PP} (500 Ω / 20 mA)
Status display	LED red (error), LED green (ready)

Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section rigid	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
Tightening torque	0.5 Nm ... 0.6 Nm

Interfaces

Data communication (bypass)

Limit frequency (3 dB)	approx. 3 Hz
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Dimensions

Item dimensions

Width	22.5 mm
Height	104 mm
Depth	114.5 mm

Material specifications

Color	gray (RAL 7042)
Housing material	Polyamide PA non-reinforced

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 65 °C



	-4 °F ... 149 °F
Ambient temperature (storage/transport)	-40 °C ... 85 °C (-40 °F ... 185 °F)
Altitude	≤ 2000 m
Permissible humidity (operation)	10 % ... 95 % (non-condensing)

Approvals

CE

Certificate	CE-compliant
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ATEX

Identification	II 3 G Ex nA IIC T4 Gc X
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UKCA Ex (UKEX)

Identification	II 3 G Ex nA IIC T4 Gc
Certificate	PxCIF21UKEX2810638X

UL, USA/Canada

Identification	UL 508 Recognized
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EAC Ex

Identification	II 3 G Ex nA IIC T4 Gc
Certificate	BY/112 02.01 TP012 103.01 00078

EMC data

Electromagnetic compatibility	Conformance with EMC 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
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Electrostatic discharge

Standards/regulations	EN 61000-4-2
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Electromagnetic HF field

Standards/regulations	EN 61000-4-3
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Electromagnetic HF field

Comments	Criterion A
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Fast transients (burst)

Standards/regulations	EN 61000-4-4
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Fast transients (burst)

Comments	Criterion B
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Surge current load (surge)

Standards/regulations	EN 61000-4-5
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