Current transducers - MACX MCR-SL-CAC-12-I-UP - 2810638

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The figure shows 2810625 MACX MCR-SL-CAC-5-I-UP

Current measuring transducer for 5 A and 12 A AC, the output signal 0...20 mA or 4...20 mA, can be configured using a DIP switch with an operating mode indication through an LED

Product Features

- Input/output can be configured via DIP switches

Key commercial data

package_quantity	1
GTIN	4046356510356

Technical data

Dimensions

Width	22.5 mm
Height	104 mm
Depth	114.5 mm

Ambient conditions

Ambient temperature (operation)	-20 °C ... 65 °C (-4°F ... 149°F)
Ambient temperature (storage/transport)	-40 °C ... 85 °C (-40°F...185°F)
Degree of protection	IP20

Input data

Configurable/programmable	Via DIP switches
Setting range for min. input current	0 A AC ... 5 A AC (configurable)
Setting range for max. input current	0 A AC ... 12 A AC (configurable)
Overload capacity	1 x I_N (continuous)
Surge strength	8 x I_N (1 s)
Nominal frequency f_N	50 Hz
Frequency measuring range	45 Hz ... 65 Hz
Connection method	Screw terminal block

Output data

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Output data

Output name	Current output
Configurable/programmable	Via DIP switches
Current output signal	0 mA ... 20 mA (configurable)
Current output signal	4 mA ... 20 mA (configurable)
Max. output current	25 mA
Load/output load current output	< 500 Ω (at 20 mA)
Status display	LED red (error), LED green (ready)

Switching output

Output name	No switching output

Power supply

Nominal supply voltage	24 V DC (or 230 V AC)
Supply voltage range	19.2 V AC/DC ... 253 V AC/DC
Max. current consumption	< 33 mA (at 24 V DC)
Max. current consumption	< 15 mA (for 230 V AC)
Power consumption	< 0.8 W (at 24 V DC)
Power consumption	< 3.5 VA (for 230 V AC)

Connection data

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section stranded min.	0.2 mm²
Conductor cross section stranded max.	2.5 mm²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	14
Stripping length	8 mm
Screw thread	M3

General

Maximum transmission error	≤ 0.5 % (of nominal range value under nominal conditions)
Maximum temperature coefficient	< 0.02 %/K
Temperature coefficient, typical	< 0.015 %/K
Step response (10-90%)	< 300 ms
Pollution degree	2
Rated insulation voltage	300 V AC (to earth)
Test voltage input/output	4 kV (50 Hz, 1 min.)
Test voltage output/power supply	2 kV (50 Hz, 1 min.)
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Noise emission	EN 61000-6-4
Noise immunity	EN 61000-6-2 When being exposed to interference, there may be minimal deviations.
Color	green

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Technical data

General

Housing material	Polyamide PA non-reinforced
Mounting position	Any
Conformance	CE-compliant
ATEX	# II 3 G Ex nA IIC T4 Gc X

classifications

eCl@ss

eCl@ss 4.0	27200303
eCl@ss 4.1	27200303
eCl@ss 5.0	27200303
eCl@ss 5.1	27200303
eCl@ss 6.0	27200303
eCl@ss 7.0	27142316
eCl@ss 8.0	27142316

ETIM

ETIM 3.0	EC001039
ETIM 4.0	EC002475
ETIM 5.0	EC002475

UNSPSC

UNSPSC 6.01	30211501
UNSPSC 7.0901	39121019
UNSPSC 11	39121006
UNSPSC 12.01	39121006
UNSPSC 13.2	39121006

Drawings

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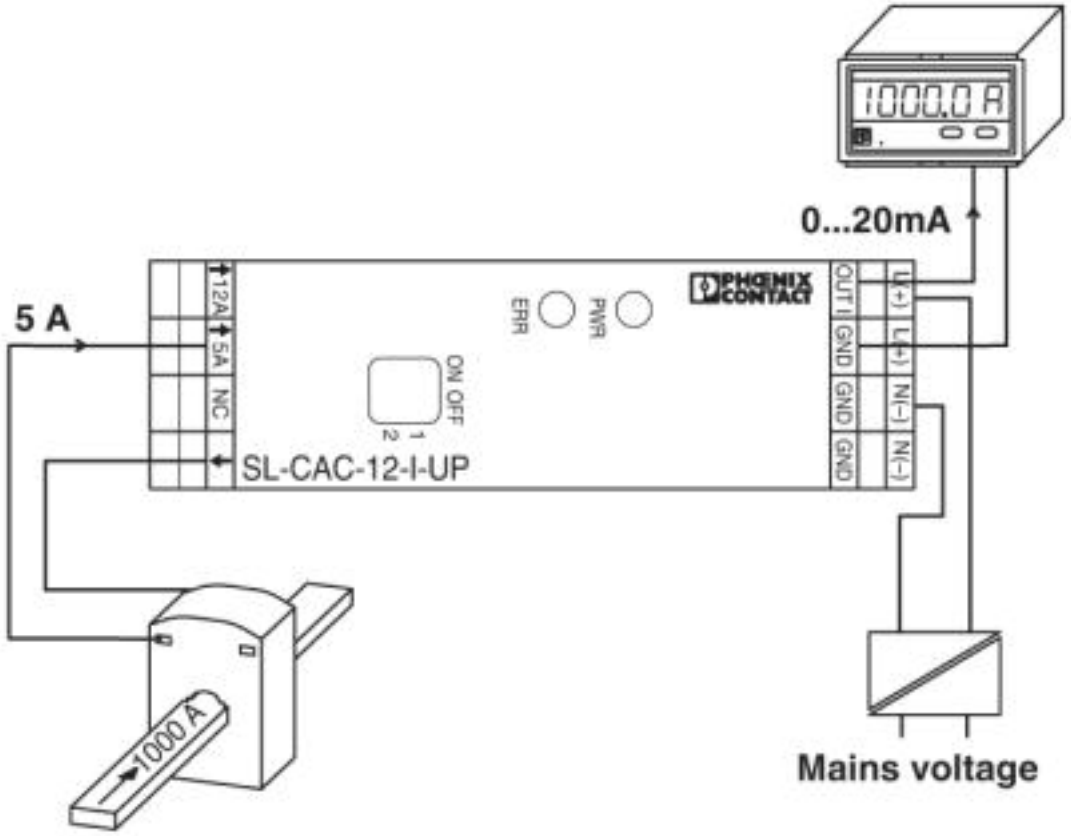
Application drawing



Current measurement

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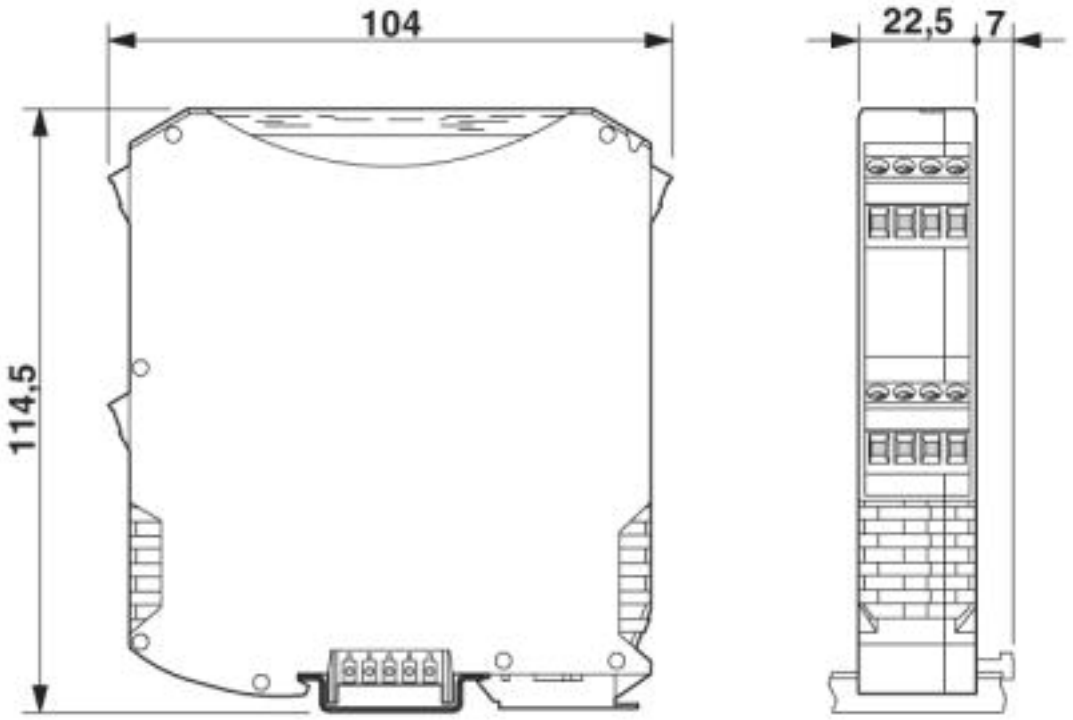
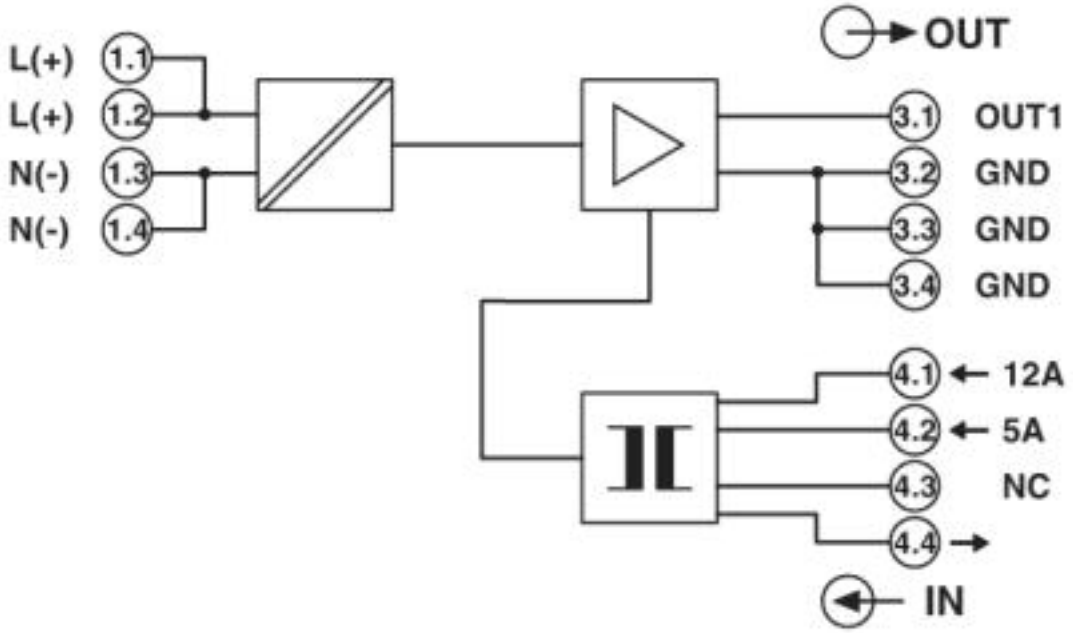
Dimensioned drawing



Circuit diagram



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