MCR-SLP-1-5-UI-0 - Current measuring transducer

2814359

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MCR passive current measuring transducer, for sinusoidal alternating currents 0..1 A AC/0..5 A AC, without switching output, output signal 0..10 V/0..20 mA

Your advantages

- Loop-powered
- Measuring ranges1 A and 5 A AC, reconnectable

Commercial data

Item number	2814359
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C444
Product key	CMMA21
GTIN	4017918148447
Weight per piece (including packing)	223.2 g
Weight per piece (excluding packing)	210.4 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

Product properties

Product type	Current measuring transducer

Insulation characteristics

Overvoltage category	III
Pollution degree	2

Electrical properties

Total error	≤ 1.175 % (Temperature range)
Test voltage	3.5 kV
Measuring category	III
Step response (10-90%)	< 200 ms
Maximum temperature coefficient	< 0.015 %/K
Maximum transmission error	< 0.5 % (of final value)
Rated insulation voltage	300 V AC (to earth)

Input data

Signal

Configurable/programmable	no

Measurement

Input current range	0 A AC ... 1 A AC (Permitted continuous overload: 120%)
Overload capacity	2 x I_N (5 min. at 60°C ambient temperature)
Surge strength	50 A (1 s)
Permissible output range	1.2 x I_N
Nominal frequency f_N	50 Hz
Frequency measuring range	45 Hz ... 60 Hz
Power dissipation	1.6 VA (at I_A = 20 mA)
Curve type	Sine

Measurement

Input current range	0 A AC ... 5 A AC (Permitted continuous overload: 120%)
Impulse form	Sine
Overload capacity	2 x I_N (5 min. at 60°C ambient temperature)
Surge strength	100 A (1 s)
Permissible output range	1.2 x I_N
Nominal frequency f_N	50 Hz

Frequency measuring range	45 Hz ... 60 Hz
Power dissipation	2.2 VA (I = 20 mA)

Output data

Signal: Voltage

Voltage output signal	0 V ... 10 V
Max. voltage output signal	20 V
Load/output load voltage output	> 100 kΩ
Ripple	< 50 mV_{PP}

Signal: Current

Current output signal	0 mA ... 20 mA
Max. current output signal	30 mA
Load/output load current output	< 750 Ω
	< 250 Ω (when current and voltage outputs are used simultaneously)
Ripple	< 50 mV_{PP}
Residual ripple, in reference to the measured value	0.5 % (pp of measured value)

Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	0.2 mm² ... 2.5 mm²
Conductor cross-section flexible	0.2 mm² ... 2.5 mm²
Conductor cross-section AWG	24 ... 14
Tightening torque	0.5 Nm ... 0.6 Nm

Dimensions

Item dimensions

Width	22.5 mm
Height	99 mm
Depth	114.5 mm

Material specifications

Color	green (RAL 6021)
Housing material	Polyamide PA non-reinforced

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 80 °C (non-condensing)
Altitude	< 2000 m

Permissible humidity (operation)	10 % ... 95 % (non-condensing)

Approvals

CE

Certificate	CE-compliant

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

Standards and regulations

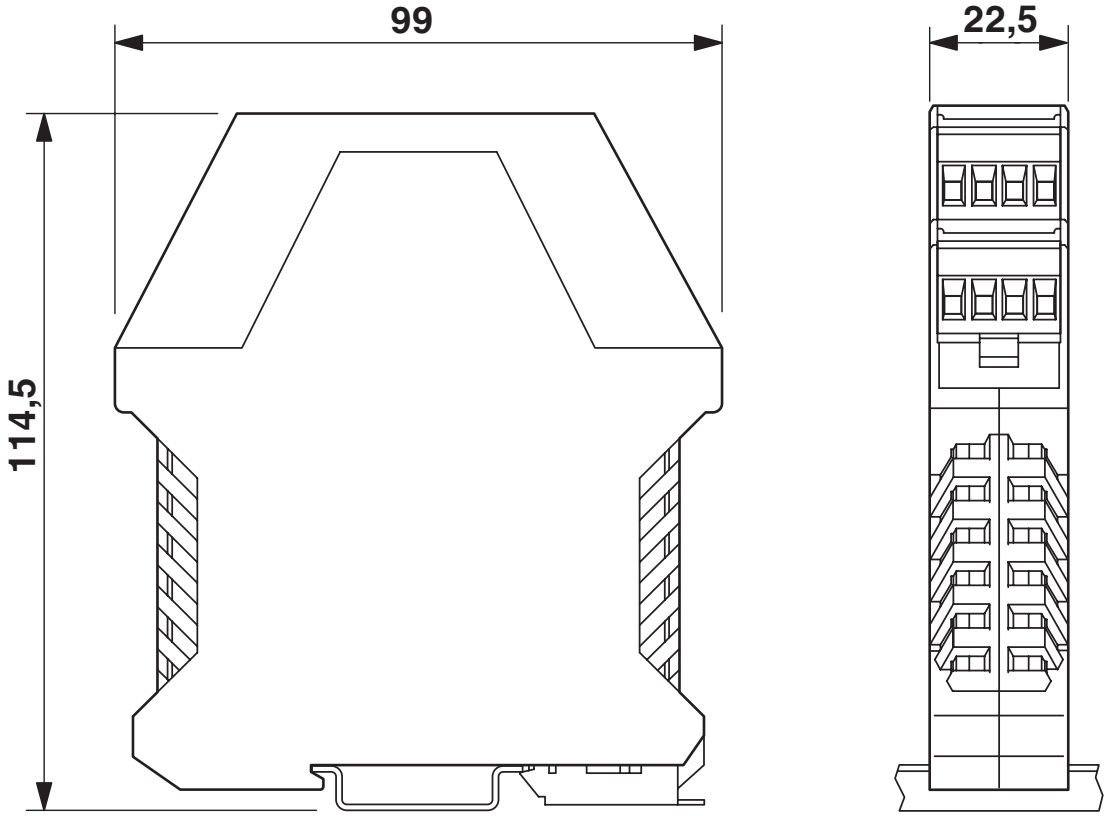
Standards/regulations	IEC 61010-2-030

Mounting

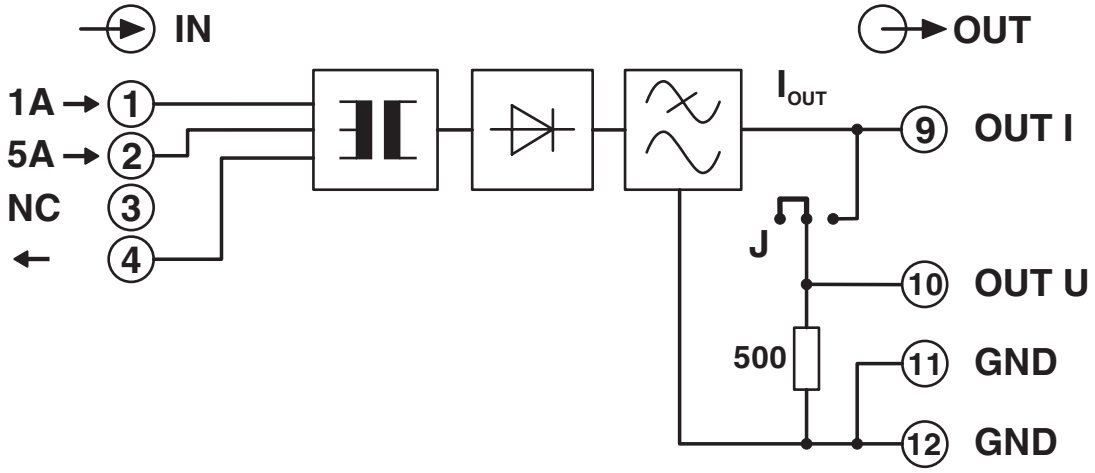
Mounting type	DIN rail mounting
Mounting position	< 50 °C: any; > 50 °C: vertical (installation on horizontal DIN rail)

Drawings

Dimensional drawing



Circuit diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2814359

cUL Recognized
Approval ID: E238705

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Classifications

ECLASS

ECLASS-13.0	27210123
ECLASS-15.0	27210123

ETIM

ETIM 10.0	EC002475

UNSPSC

UNSPSC 21.0	39121000

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	681206d3-8832-4e1f-bb7b-9720cb9d9362

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https://www.phoenixcontact.com

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com