

MCR-CPS-I-I-44-E - Repeater power supply



2814553

<https://www.phoenixcontact.com/us/products/2814553>

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MCR repeater power supplies, input signal: 4...20 mA, output signal: 4...20 mA



Commercial data

Item number	2814553
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C401
Product key	CK1811
Catalog page	Page 314 (IF-2007)
GTIN	4017918148515
Weight per piece (including packing)	134.6 g
Weight per piece (excluding packing)	108.5 g
Customs tariff number	85437090
Country of origin	DE

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Technical data

Product properties

No. of channels	1
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Electrical properties

Limit frequency (3 dB)	30 Hz
Test voltage, input/output/supply	1 kV AC (50 Hz, 60 s)
Protective circuit	Transient protection
Step response (10-90%)	≈  ms
Maximum temperature coefficient	< 0.01 %
Maximum transmission error	≤ 0.1 % (of final value)

Supply

Supply voltage range	20 V DC ... 30 V DC
Max. current consumption	approx. 70 mA

Input data

Signal

Description of the input	Current input (sensor circuit)
Current input signal	4 mA ... 20 mA
Max. current input signal	100 mA
Transmitter supply voltage range	20 V ... 30 V
Transmitter supply current	< 30 mA

Output data

Signal: Current output

Current output signal	4 mA ... 20 mA
Max. current output signal	approx. 28 mA
Output current with wire break	0 mA
Output current with short-circuit	> 20 mA
Load/output load current output	≤ 500 Ω

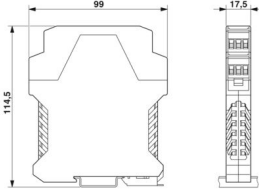
Connection data

Connection method	Pluggable 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

Dimensions

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Dimensional drawing	
	
Width	17.5 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	
Ambient temperature (operation)	-20 °C ... 65 °C

Approvals

CE	
Certificate	CE-compliant
UL, USA/Canada	
Identification	cULus

Mounting

Mounting position	any
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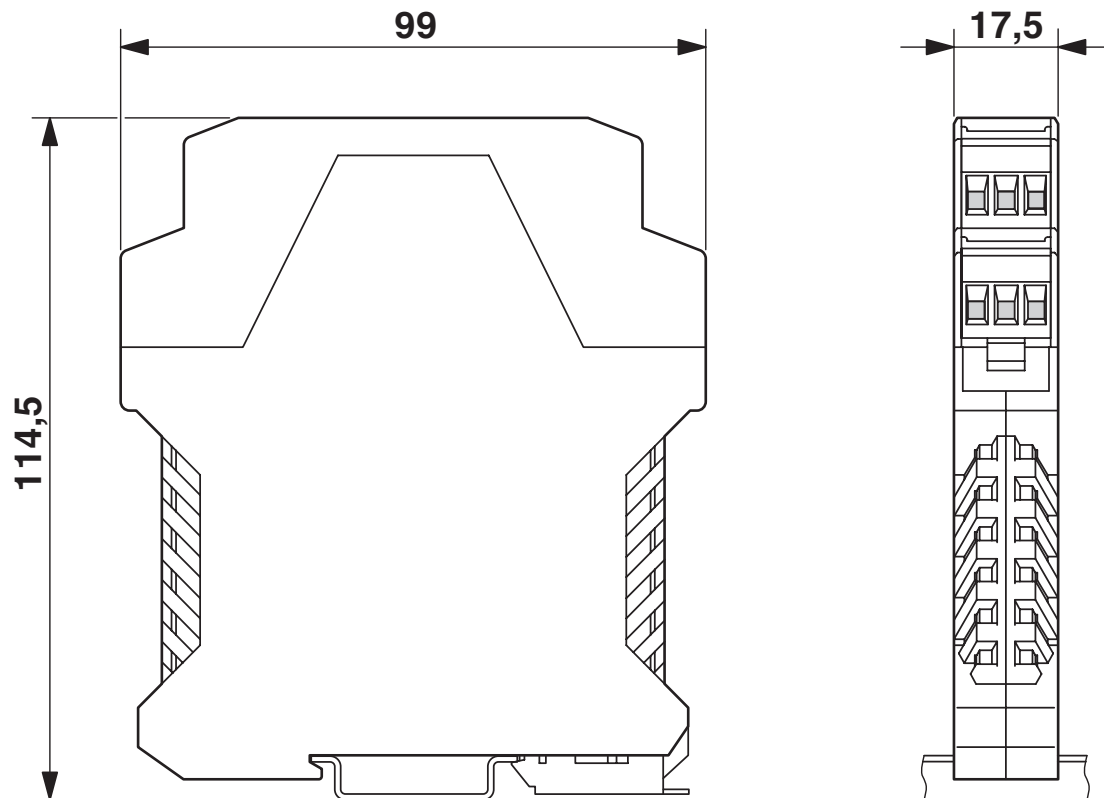
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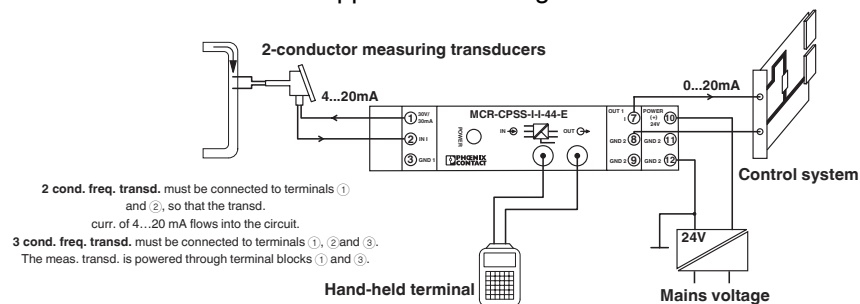


Drawings

Dimensional drawing



Application drawing



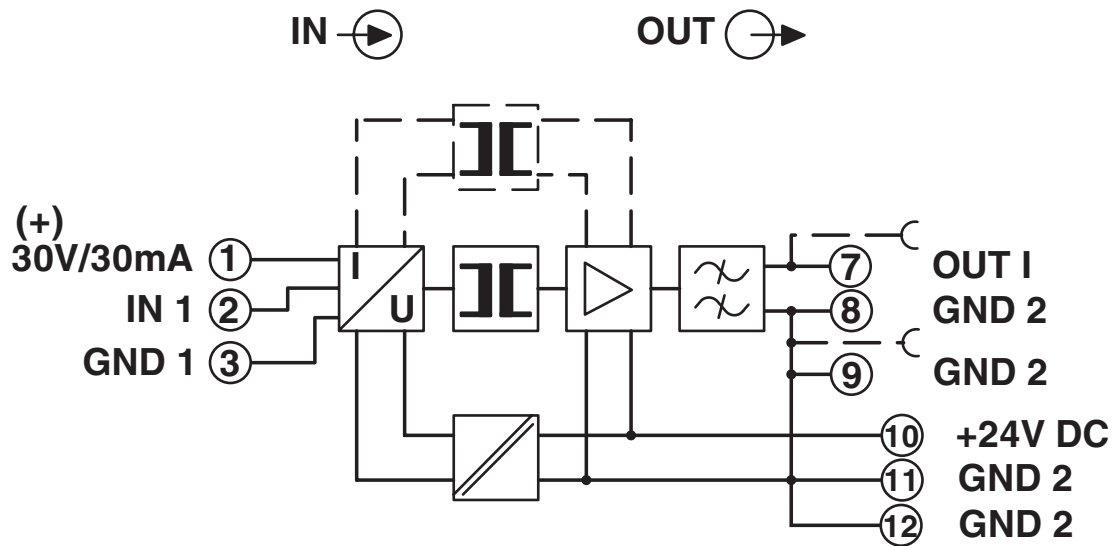
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Circuit diagram



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Classifications

ECLASS

ECLASS-11.0	27210121
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