

# MCR-1CLP-I-I-00


Order No.: 2814016



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2814016>

MCR passive isolator, for the electrical isolation of current signals without auxiliary power, 1-channel, input signal: 0(4)...20 mA, output signal: 0(4)...20 mA



Commercial data	
GTIN (EAN)	 4 017918 131722
sales group	H505
Pack	1 pcs.
Customs tariff	85437090
Catalog page information	Page 369 (IF-2009)

### Product notes

WEEE/RoHS-compliant since:  
09/03/2007



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## Technical data

Input data	
Description of the input	Current input
Configurable/programmable	No
Current input signal	0 mA ... 20 mA
	4 mA ... 20 mA

Max. input voltage	30 V (30 V overload)
Max. input current	50 mA (100 mA overload)
Response current	< 50 $\mu$ A
Input voltage limitation	33 V (with Zener diode)
Voltage dissipation	2.5 V (at I = 20 mA)

#### Output data

Output name	Current output
Configurable/programmable	No
Current output signal	0 mA ... 20 mA 4 mA ... 20 mA
Max. output current	< 50 mA
Load/output load current output	$\leq 1375 \Omega$ (at I = 20 mA output signal)

#### Power supply

Supply voltage range	(no separate supply voltage necessary)
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#### Connection data

Type of connection	Pluggable screw connection
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	14
Stripping length	8 mm
Screw thread	M3

#### General data

No. of channels	1
Width	12.5 mm
Height	99 mm
Depth	114.5 mm
Maximum transmission error	$\leq 0.1 \%$ (of final value)
Maximum temperature coefficient	$\leq 0.002 \%/K$ (of measured value / 100 $\Omega$ load)
Additional error, load-dependent	0.02 % (of measured value)
Limit frequency (3 dB)	< 75 Hz

Step response (10-90%)	5 ms (with 500 Ω load)
Ambient temperature (operation)	-10 °C ... 70 °C
Degree of protection	IP20
Test voltage input/output	510 V (50 Hz, 1 min.)
Color	green
Housing material	Polyamide PA non-reinforced
Mounting position	Any
Conformance	CE-compliant
UL, USA / Canada	cULus

**Certificates / Approvals**



Certification

CUL, GOST, UL

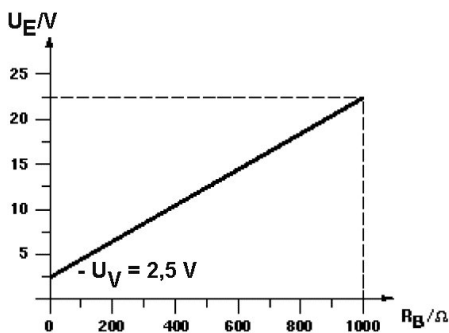
**Diagrams/Drawings**

Application drawing



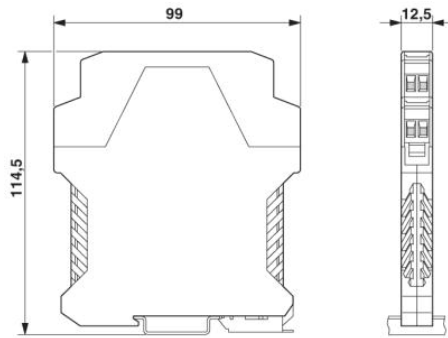
Application example: - flow measurement  
 1 = magnetic inductive flow gauge  
 2 = control

Diagram



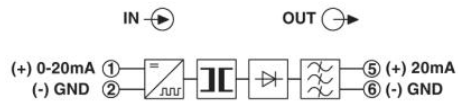
Dimensioned drawing

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Circuit diagram

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