

MCR-4CLP-I-I-00 - Loop-powered isolators



2814045

<https://www.phoenixcontact.com/pc/products/2814045>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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

Your advantages

- 1, 2 or 4-channel version as an option
- Electrical isolation without additional auxiliary voltage
- 0/4 ... 20 mA current signals

Commercial data

Item number	2814045
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	CK1813
Catalog page	Page 135 (C-7-2013)
GTIN	4017918131708
Weight per piece (including packing)	146.8 g
Weight per piece (excluding packing)	146.8 g
Customs tariff number	85437090
Country of origin	DE

MCR-4CLP-I-I-00 - Loop-powered isolators



2814045

<https://www.phoenixcontact.com/pc/products/2814045>

Technical data

Product properties

Product type	Passive isolators
No. of channels	4

Electrical properties

Electrical isolation between input and output	yes
Limit frequency (3 dB)	< 75 Hz
Maximum power dissipation for nominal condition	200 mW
Test voltage input/output	510 V AC (50 Hz, 60 s)
Signal transmission behavior	In = Out
Step response (10-90%)	5 ms (with 500 Ω load)
Maximum temperature coefficient	≤ 0.002 %/K (of measured value / 100 Ω load)
Maximum transmission error	≤ 0.1 % (of final value)
Additional error, load-dependent	0.02 % (of measured value)

Supply

Supply voltage range	no separate supply voltage necessary
----------------------	--------------------------------------

Input data

Signal

Description of the input	Current input
Number of inputs	4
Configurable/programmable	no
Max. voltage input signal	30 V (30 V overload)
Current input signal	0 mA ... 20 mA 4 mA ... 20 mA
Max. current input signal	50 mA (100 mA overload)
Response current	< 50 μ A
Input voltage limitation	33 V (with Zener diode)
Voltage dissipation	2.5 V (I = 20 mA)

Output data

Signal: Current

Number of outputs	4
Configurable/programmable	no
Current output signal	0 mA ... 20 mA 4 mA ... 20 mA
Max. current output signal	< 50 mA
Load/output load current output	≤ 1375 Ω (at I = 20 mA output signal)
Ripple	< 5 mV (rms)

MCR-4CLP-I-I-00 - Loop-powered isolators



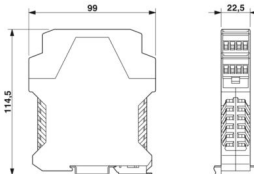
2814045

<https://www.phoenixcontact.com/pc/products/2814045>

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

Dimensional drawing	
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)	-10 °C ... 70 °C

Approvals

CE

Certificate	CE-compliant
-------------	--------------

UL, USA/Canada

Identification	cULus
----------------	-------

Mounting

Mounting type	DIN rail mounting
Mounting position	any

MCR-4CLP-I-I-00 - Loop-powered isolators

2814045

<https://www.phoenixcontact.com/pc/products/2814045>



Phoenix Contact 2024 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstraße 8
D-32825 Blomberg
+49 (0) 5235-3 00
info@phoenixcontact.com