

MCR-CLP-UI-I-4

Order No.: 2814058



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2814058>

MCR passive isolator, loop-powered, for electrical isolation of analog signals, with configurable input, output signal: 4..20 mA

Commercial data

Pack	1 pcs.
Customs tariff	85437090
Weight/Piece	0.1317 KG
Catalog page information	Page 367 (IF-2009)

Product notes

WEEE/RoHS-compliant since:
04/02/2007



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Technical data

Input data

Description of the input	Current input
Configurable/programmable	Yes
Current input signal	4 mA ... 20 mA (please indicate any different setting when ordering)
Max. input voltage	30 V

Max. input current	50 mA
Input resistance of voltage input	1 M Ω
Input resistance current input	50 Ω

Output data

Output name	Current output
Configurable/programmable	No
Current output signal	4 mA ... 20 mA
Max. output current	35 mA
Load/output load current output	$\leq 800 \Omega$ (At $U_B = 24 \text{ V}$; otherwise: $(U_B - 8 \text{ V}) / 20 \text{ mA}$)

Power supply

Name	Loop-powered
Range of supply voltages	8 V DC ... 30 V DC
Voltage dissipation	8 V

Connection data

Type of connection	Pluggable screw connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
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	17.5 mm
Height	99 mm
Depth	114.5 mm
Transmission error, max.	$\leq 0.1 \%$ (of end value)
Transmission error, typical	0.05 %
Maximum temperature coefficient	$\leq 0.01 \%/K$
Temperature coefficient, typical	0.005 %/K
Limit frequency (3 dB)	30 Hz

Alignment zero	± 2 % (of end value)
Alignment span	± 2 % (of end value)
Step response (10-90%)	11 ms
Ambient temperature (operation)	-25 °C ... 65 °C
Color	green
Housing material	Polyamide PA non-reinforced
Mounting position	Any
Conformity	CE compliant
UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D or non-hazardous locations

Certificates / Approvals



Certification

CUL, GOST, UL

Certification Ex:

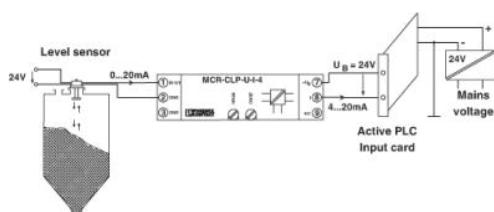
CUL-EX LIS, UL-EX LIS

Configuration options

Input signal	0...20 mA [IN01] 4...20 mA [IN02] 0...10 V [IN03] 0...5 V [IN05] 1...5 V [IN06] -60...+60 mV [IN13] -100...+100 mV [IN14] -200...+200 mV [IN15] -300...+300 mV [IN16] -500...+500 mV [IN17] -1...+1 V [IN18] -2...+2 V [IN19] -5...+5 V [IN21] -10...+10 V [IN22] -20...+20 V [IN23] 0...60 mV [IN24] 0...100 mV [IN25] 0...200 mV [IN26] 0...300 mV [IN27] 0...500 mV [IN28] 0...1 V [IN29] 0...2 V [IN30] 0...20 V [IN32] -5...+5 mA [IN33] -10...+10 mA [IN34] -20...+20 mA [IN35] 0...5 mA [IN36] 0...10 mA [IN37]
Plant calibration certificate	No plant calibration certific. [NONE] Certificate without test data [YES] Certificate with test data [YESPLUS]

Diagrams/Drawings

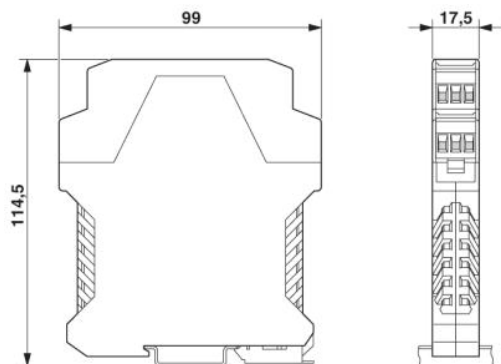
Application drawing



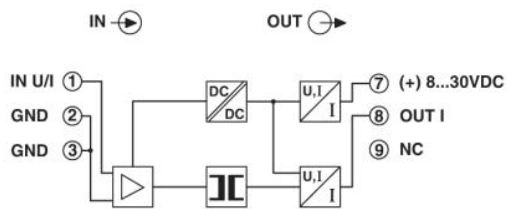
Application example: Level measurement

- 1 = Level sensor
- 2 = Mains voltage
- 3 = Control unit

Dimensioned drawing



Circuit diagram



Approbationslogos (EX-Bereich)



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