

# MCR-S-1-5-UI-SW-DCI-NC

Order No.: 2814731

The illustration shows version MCR-S-1-5-UI-DCI



<http://eshop.phoenixcontact.co.uk/phoenix/treeViewClick.do?UID=2814731>

MCR current transducer, programmable and configurable, for measuring direct, alternating and distorted currents, with relay and transistor output, input current 0 ... 0.2 A to 0 ... 11 A, unconfigured

Commercial data	
EAN	4017918169282
Pack	1
Customs tariff	85389091
Weight/Piece	149.08 g
Country of Origin	DE
Catalog page information	Page 390 (IF-2009)

#### Product notes

WEEE/RoHS-compliant since:  
17/11/2006



Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation at <http://www.download.phoenixcontact.com>. The General Terms and Conditions of Use apply to Internet downloads.

## Technical data

Input data	
Input	Current measuring input
Number of inputs	3
Configurable/programmable	Yes, unconfigured
Input current range	0 A ... 11 A (AC/DC)
Operate threshold	2 % (of measuring range nominal value 1/5/10 A)

Setting range for min. input current	0 A ... 0.2 A
Setting range for max. input current	0 A ... 11 A
Impulse form	AC, DC or distorted currents
Overload capacity	2 x I <sub>N</sub> (continuous)
Surge strength	20 x I <sub>N</sub> (1 s)
Frequency measuring range	15 Hz ... 400 Hz
Type of connection	Screw connection

#### Output data

Output name	Voltage output / current output
Configurable/programmable	Yes, unconfigured
Voltage output signal	0 V ... 10 V
	2 V ... 10 V
	-10 V ... 10 V
	0 V ... 5 V
	1 V ... 5 V
	-5 V ... 5 V
	10 V ... 0 V
	10 V ... 2 V
	10 V ... -10 V
	5 V ... 0 V
	5 V ... 1 V
	5 V ... -5 V
Current output signal	0 mA ... 20 mA
	4 mA ... 20 mA
	20 mA ... 0 mA
	20 mA ... 4 mA
Load/output load voltage output	> 10 kΩ
Load/output load current output	< 500 Ω

#### Switching output

Output name	Relay output
Contact type	1 PDT
Contact material	AgSnO, hard gold-plated

Maximum switching voltage	30 V AC
	36 V DC
	250 V AC (when the gold layer is destroyed)
Limiting continuous current	50 mA
	2 A (when the gold layer is destroyed)

#### Power supply

Range of supply voltages	20 V DC ... 30 V DC
Max. current consumption	< 50 mA (without load)

#### Connection data

Type of connection	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

Width	22.5 mm
Height	99 mm
Depth	114.5 mm
Transmission error, max.	< 0.5 % (of range nominal value under nominal conditions)
Temperature coefficient, typical	< 0.025 %/K
Step response (10-90%)	330 ms (with AC)
	40 ms (with DC)
Status display	LED green
Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Degree of protection	IP20
Pollution degree	2
Surge voltage category	III
Color	green
Housing material	Polyamide PA non-reinforced

Mounting position	Any
Conformity	CE compliant
UL, USA / Canada	Class I, Zone 2, AEx nC IIC T6, Ex nC IIC T6

**Certificates**



Certification CUL, GOST, UL  
 Certification Ex: CUL-EX LIS, UL-EX LIS

**Accessories**

Item	Designation	Description
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**Cable/conductor**

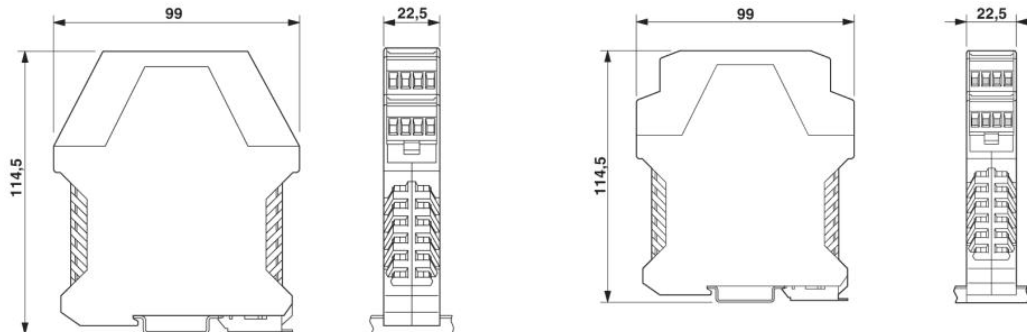
2881078	CM-KBL-RS232/USB	Connecting cable D-9-SUB to USB, with adapter D-9-SUB to D-25-SUB.
2814388	MCR-TTL-RS232-E	Software adapter cable (Stereo jack connector/SUB-D 25-pos.), 1.2 m length, for programming MCR-T-..., MCR-S-... and MCR-f-... modules

**General**

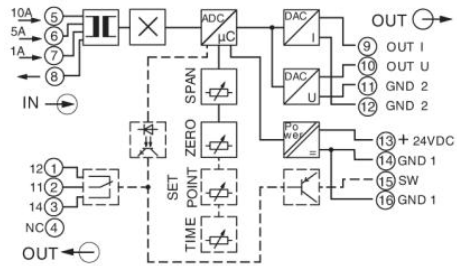
2814799	MCR/PI-CONF-WIN	PI/MCR configuration software, for programming the PI/Ex-RTD..., PI/Ex-THC..., MCR-T-..., MCR-PSP-..., MCR-f... and MCR-s...modules
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**Drawings**

Dimensioned drawing



Circuit diagram



**Address**

PHOENIX CONTACT Ltd  
Halesfield 13  
Telford / Shropshire / TF7 4PG,England  
Phone 01952 681 700  
Fax 01952 681 799  
<http://www.phoenixcontact.co.uk>



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