

## Universal current transducer - MCR-SL-CUC-100-U - 2308108

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's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)




Universal current transducer, for measuring DC, AC, and distorted currents, 0 ... 100 A input current, 0 ... 10 V output

### Your advantages

- ✓ Variable mounting on DIN rail and mounting plate
- ✓ Compact dimensions also enable distributed use
- ✓ Simple connection technology thanks to COMBICON plug-in connection terminal blocks
- ✓ Universal current measurement, no shunt required
- ✓ 3-way isolation

### Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 569736
GTIN	4046356569736

### Technical data

#### Dimensions

Width	90 mm
Height	33.8 mm
Depth	85 mm

#### Ambient conditions

Ambient temperature (operation)	-40 °C ... 65 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Degree of protection	IP20

#### Input data

Input current range	0 A ... 100 A
Overload capacity	6 x I <sub>IN</sub>

# Universal current transducer - MCR-SL-CUC-100-U - 2308108

## Technical data

### Input data

Frequency measuring range	20 Hz ... 6000 Hz (0 Hz)
Connection method	Cable design: 32 mm diameter

### Output data

Output name	Voltage output
Voltage output signal	0 V ... 10 V
Load/output load voltage output	≥ 10 kΩ

### Switching output

Output name	No switching output
-------------	---------------------

### Power supply

Nominal supply voltage	24 V DC
Supply voltage range	20 V DC ... 30 V DC
Max. current consumption	30 mA

### Connection data

Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section solid	0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section AWG	24 ... 12

### General

Maximum transmission error	<± 1 % (of final value)
Temperature coefficient, typical	0.02 %/K (0 ... 60 °C)
	0.04 %/K (-40 °C ... 65 °C)
Linearity error	<± 1 % (From the range end value)
Step response (10-90%)	150 ms
Overvoltage category	III
Degree of pollution	2
Rated insulation voltage	300 V AC
Color	green
Housing material	Franyl B63 V0 GV30
Conformance	CE-compliant
UL, USA/Canada	UL/C-UL listed UL 508

### Standards and Regulations

Conformance	CE-compliant
UL, USA/Canada	UL/C-UL listed UL 508

### Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 25;
------------	---

# Universal current transducer - MCR-SL-CUC-100-U - 2308108

## Technical data

### Environmental Product Compliance

	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"
--	---

## Approvals

### Approvals

#### Approvals

UL Listed / cUL Listed / EAC / cULus Listed

#### Ex Approvals

### Approval details

UL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 123528
-----------	--	---	---------------

cUL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 123528
------------	--	---	---------------

EAC			RU C- DE.A*30.B.01082
-----	--	--	--------------------------

cULus Listed			
--------------	--	--	--

Phoenix Contact 2019 © - all rights reserved  
<http://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG  
Flachsmarktstr. 8  
32825 Blomberg  
Germany  
Tel. +49 5235 300  
Fax +49 5235 3 41200  
<http://www.phoenixcontact.com>