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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## Universal current transducer - MCR-SL-CUC-500-I - 2308085

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Universal current transducer, for measuring DC, AC, and distorted currents, 0 ... 500 A input current, 4 ... 20 mA output

### Why buy this product

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

### Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 566971
GTIN	4046356566971

### Technical data

#### Dimensions

Primary round conductor (diameter)	32 mm
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

#### Input data

Number of inputs	1
Input current range	0 A ... 500 A

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## Technical data

### Input data

Overload capacity	$3.6 \times I_{IN}$
Frequency measuring range	20 Hz ... 6000 Hz (0 Hz)
Connection method	Cable design: 32 mm diameter
Rated frequency: Standard converter	20 Hz ... 6000 Hz
Primary rated current $I_{pn}$	500 A

### Output data

Output name	Current output
Current output signal	4 mA ... 20 mA
Max. output current	< 25 mA
Load/output load current output	< 300 $\Omega$
Connection method	Screw connection

### Switching output

Output name	No switching output
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### Power supply

Nominal supply voltage	24 V DC
Supply voltage range	20 V DC ... 30 V DC
Max. current consumption	$(30 + I_{OUT})$ mA
Power consumption	1.65 W

### Connection data

Conductor cross section solid min.	0.25 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
Stripping length	10 mm

### General

Accuracy class	1
Maximum transmission error	$\leq \pm 1\%$ (of final value)
Temperature coefficient, typical	0.02 %/K (0 ... 60 °C)
	0.04 %/K (-40 °C ... 65 °C)
Linearity error	$\leq \pm 1\%$ (From the range end value)
Step response (10-90%)	150 ms
Overvoltage category	III
Degree of pollution	2
Rated insulation voltage	300 V AC
Test voltage input/output	3.5 kV (50 Hz, 1 min.)
Test voltage input/power supply	3.5 kV (50 Hz, 1 min.)

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## Technical data

### General

Noise emission	EN 61000-6-4
Noise immunity	EN 61000-6-2
Color	green
Housing material	Franyl B63 V0 GV30
Conformance	CE-compliant

### Standards and Regulations

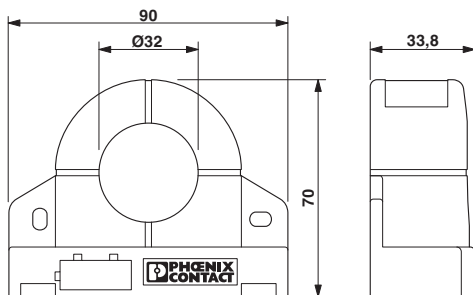
Noise emission	EN 61000-6-4
Noise immunity	EN 61000-6-2
Conformance	CE-compliant

### Environmental Product Compliance

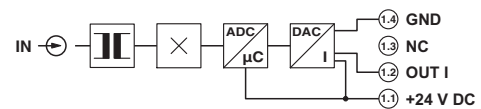
China RoHS	Environmentally Friendly Use Period = 25;
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings

Dimensional drawing



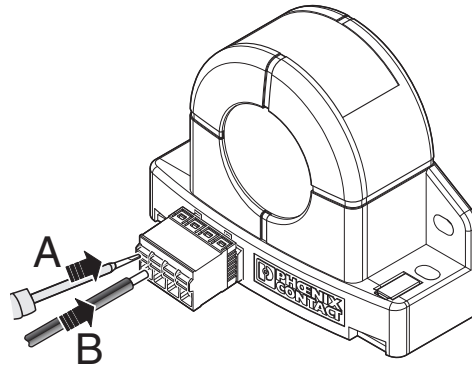
Circuit diagram





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Schematic diagram



## Approvals

Approvals

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Approvals

EAC

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Ex Approvals

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## Approval details

EAC



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