

# 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

The MCR-SL-CUC-100-I is illustrated

## Product Features

- 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

<b>package_quantity</b>	1
<b>GTIN</b>	4046356566971

## Technical data

### Dimensions

<b>Width</b>	90 mm
<b>Height</b>	33.8 mm
<b>Depth</b>	85 mm

### Ambient conditions

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

### Input data

<b>Input current range</b>	0 A ... 500 A
<b>Overload capacity</b>	3.6 x I <sub>N</sub>
<b>Frequency measuring range</b>	20 Hz ... 6000 Hz (0 Hz)
<b>Connection method</b>	Cable design: 32 mm diameter

### Output data

<b>Output name</b>	Current output
<b>Current output signal</b>	4 mA ... 20 mA
<b>Max. output current</b>	< 25 mA

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## Technical data

### Output data

Load/output load current output	< 300 Ω
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### 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 <sub>OUT</sub> ) 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 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	12
Stripping length	10 mm

### General

Maximum transmission error	<± 1 % (of final value)
Temperature coefficient, typical	0.02 %/K (0 ... 60°C)
Temperature coefficient, typical	0.04 %/K (-40 ... 65°C)
Linearity error	<± 1 % (From the range end value)
Step response (10-90%)	150 ms
Surge voltage category	III
Pollution degree	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.)
Noise emission	EN 61000-6-4
Noise immunity	EN 61000-6-2
Color	green
Housing material	Franyl B63 V0 GV30
Conformance	CE-compliant

## classifications

### eCl@ss

eCl@ss 4.0	27200303
eCl@ss 4.1	27200303
eCl@ss 5.0	27200303
eCl@ss 5.1	27210902

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## classifications

### eCl@ss

eCl@ss 6.0	27210902
eCl@ss 7.0	27210902
eCl@ss 8.0	27210902

### ETIM

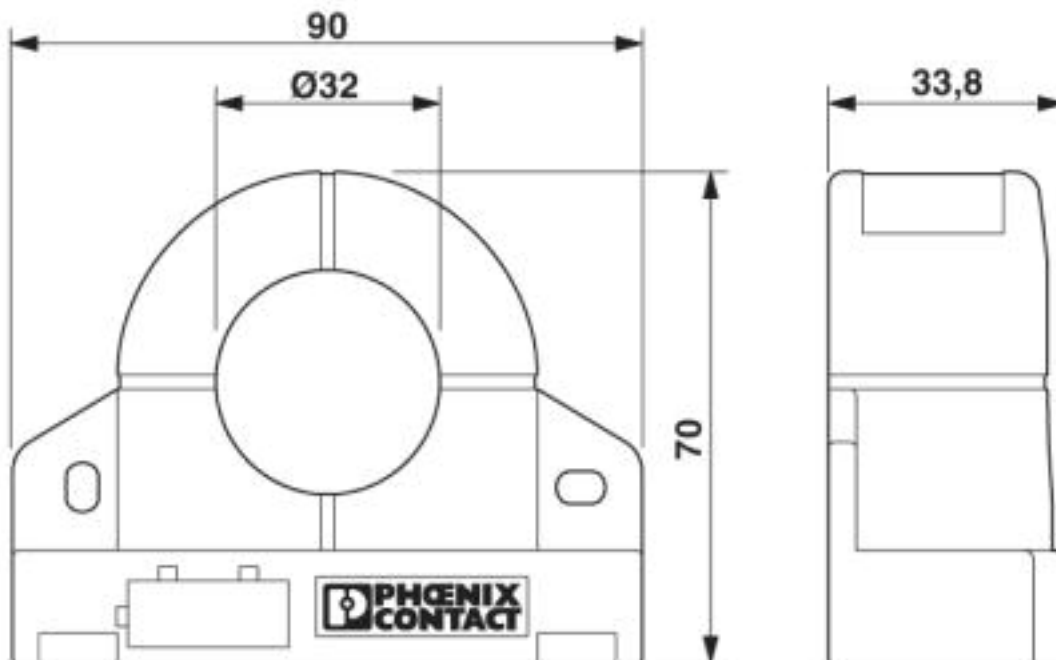
ETIM 3.0	EC002475
ETIM 4.0	EC002048
ETIM 5.0	EC002475

### UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	39121008
UNSPSC 11	39121008
UNSPSC 12.01	39121008
UNSPSC 13.2	39121008

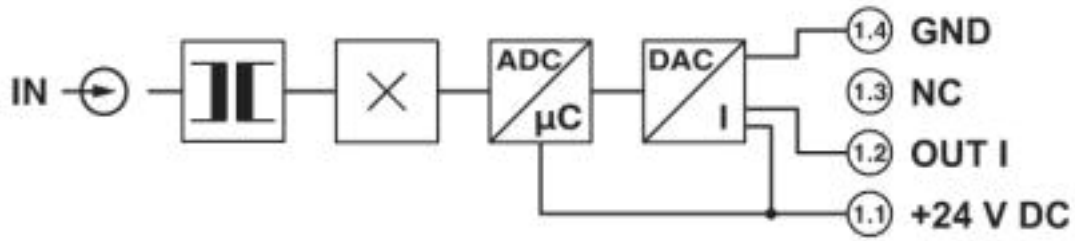
## Drawings

### Dimensioned drawing



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Circuit diagram



Schematic diagram

