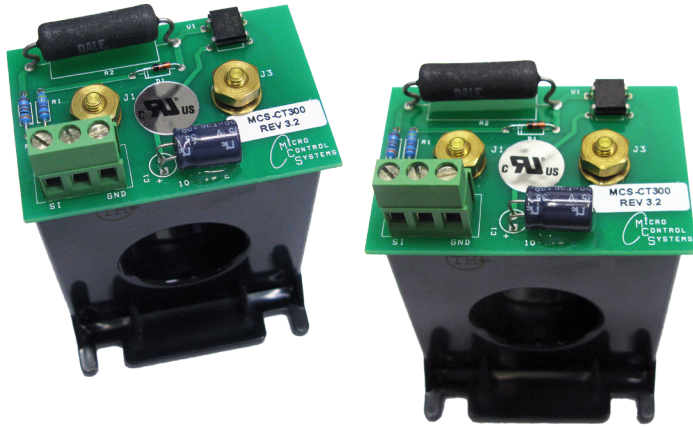




# MCS-CT300

## Description & Specifications



Part # **MCS-CT300**



### Specifications

#### Dimensions:

Height ..... 4.00"  
 Width ..... 2.38"  
 Depth ..... 1.56"  
 Wire Hole ..... 1.00"

Amperage Rating ..... 0-300A  
 Accuracy .....  $\pm 3$  amps  
 Sensor Output Voltage ..... 0-5vdc  
 Supply Voltage ..... Induced

Operating Temperature ..... -40°F to +158°F (-40°C to +70°C)  
 Storage Temperature ..... -40°F to +158°F (-40°C to +70°C)

### Description

The **MCS-CT300** current sensor monitors current flowing to electrical equipment. The magnitude of the current is converted to a linear 0 to 5vdc output signal which can be read as a standard analog input signal. The signal is used by MCS micro controllers for the following:

1. For slide valve positioning on screw machines
2. For high amp motor overload protection
3. For verification of device on / off
4. Used in kw calculations

The MCS-CT300 is a solid-core version, so the conductor runs through the sensor. No cutting, taping or rerouting is required. It is accurate, reliable, easy to install and requires no service.

The MCS-CT300 has an accuracy of  $\pm 3$  amps in the frequency range from 50-60Hz. The sensor outputs a 0 to 5vdc signal. The sensor power is induced from the current being monitored.

On the printed circuit board, a resistor is mounted across the CT terminals, which eliminates danger from induced current. A removable three-position terminal block is provided for easy wiring.

A two-conductor shielded cable must be used. The shield must be cut at the MCS-CT300 end and tied to ground at the MCS micro controller terminal block.

Amps	Volts dc
10	0.13
20	0.30
30	0.48
40	0.65
50	0.82
60	0.99
70	1.16
80	1.34
90	1.51
100	1.68
110	1.85
120	2.02
130	2.19
140	2.36
150	2.53

Amps	Volts dc
160	2.71
170	2.88
180	3.05
190	3.22
200	3.39
210	3.56
220	3.73
230	3.91
240	4.06
250	4.23
260	4.40
270	4.58
280	4.74
290	4.91
300	5.08

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