

## The MCS-CT500 Specifications & Description

### Physical Characteristics

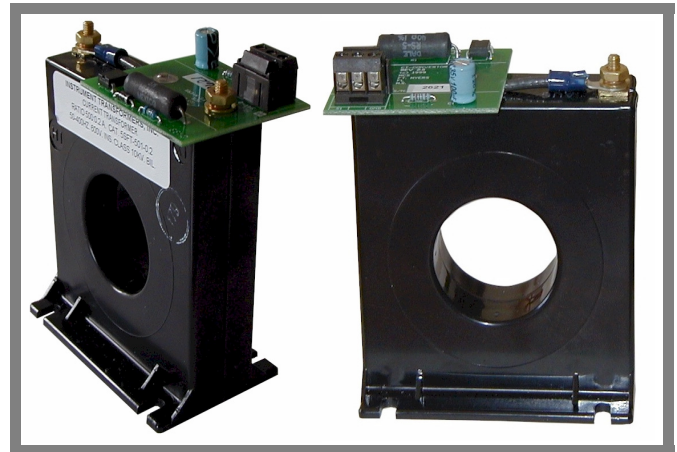
Dimensions:

Height..... 4.44"  
 Width..... 3.44"  
 Depth ..... 2.15"  
 Wire Hole ..... 2.00"

MCS-CT500

Amperage Rating ..... 50-500A  $\pm 2\%$  FS  
 Sensor Output Voltage..... 0-5vdc  
 Supply Voltage..... Induced

Operating Temperature..... -40°F to +175°F (-40°C to +80°C)  
 Storage Temperature..... -40°F to +175°F (-40°C to +80°C)



### Product Description

MCS-CT500 current sensor monitors current flowing to electrical equipment. The magnitude of the current is converted to a linear (0-5vdc) 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

The MCS-CT series are the solid-core version, where the conductor runs through the sensor. No cutting, taping or rerouting is required. The current sensors are accurate, reliable, easy to install and require no service.

The MCS-CT series has an accuracy of  $\pm 2\%$  over the range 10% to full scale in the frequency range from 50-60Hz. The sensors output a 0-5vdc signal. The MCS-CT 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.

Two-conductor shielded cable must be used. The shield must be cut at the amp sensor end and the shield must be tied to ground at the MCS micro controller terminal block.

### Part # MCS-CT500

Volts dc	Amps
0.73	73.31
0.98	97.75
1.22	122.19
1.59	158.85
1.96	195.50
2.32	232.16
2.69	268.82
3.06	305.48
3.42	342.13
3.67	366.57
4.03	403.23
4.28	427.67
4.52	452.10
4.77	476.54
5.00	500.00