

MCS-CT100 & CT250 Description & Specifications



Part # MCS-CT100 & MCS-CT250

Description

MCS-CT100 & CT250 current sensors monitor 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 ±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.

Specifications

Dimensions:	
Height	3.41"
Width	
Depth	2.00"
Wire Hole	
MCS-CT100	
Amperage Rating	10-100A ±2% FS
Sensor Output Voltage	
Supply Voltage	
MCS-CT250	
Amperage Rating	25-250A ±2% FS
Sensor Output Voltage	
Supply Voltage	
Operating Temperature40°F to +175°F	(-40°C to +80°C)
Storage Temperature40°F to +175°F	(-40°C to +80°C)

Volts dc	CT-100 Amps	CT-250 Amps
0.24	4.89	12.22
0.29	9.78	24.44
0.73	14.66	36.66
0.98	19.55	48.88
1.22	24.44	61.10
1.59	31.77	79.42
1.96	39.10	97.75
2.32	46.43	116.08
2.69	53.76	134.41
3.06	61.09	152.74
3.18	68.43	171.07
3.67	73.31	183.29
4.03	80.64	201.61
4.28	85.53	213.83
4.52	90.42	226.05
4.77	95.31	238.27
5.00	100.0	250.00

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